

Lucent Technologies
Bell Labs Innovations



**4ESS™ Switch
Domestic Call-Irregularity
Maintenance Reference Handbook
4E27 Generic**

Volume 1

234-010-315
Issue: 22
September 2001

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Overview

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Overview

Purpose

- 1.01** This handbook documents the service improvement function in domestic 4ESS™ Switch offices. This information provides the following:
- Provides correlation between 4ESS Switch features described in various practices and the application of these features
 - Relates application of call-irregularity related tools to call-irregularity related troubles
 - Enhances service improvement in 4ESS Switch offices.

Scope

- 2.01** The information in this document is provided to support the service improvement function and is divided into the following seven parts:

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- **Section 1** — Procedural Information
- **Section 2** — Technical Information
- **Section 3** — Dictionaries
- **Section 4** — Miscellaneous Information
 - — User Notes
 - — Abbreviations and Acronyms.
 - — Index.

This information can be referenced whenever information concerning trunk maintenance-related problems is needed. Network management, trunk maintenance, and machine administration personnel find this document helpful when performing the following tasks:

- Communicating between work centers
- Answering specific questions about test-call areas or Circuit Maintenance System (CMS) messages
- Guiding and formulating the service improvement job.

When a procedural or information question arises, the applicable part of this document can be referenced without following a lengthy procedure.

2.02 Section 1—Procedural Information consists of a description of the service improvement work flow in relation to system maintenance features and to supporting information contained in this document. Procedural information is intended to serve as suggestions only. Section 1 is divided into the following four subparts.

Job Flow Diagrams

Flow diagrams provide an overview to general procedures related to the service improvement function.

Machine Service Report Interpretive Aids

Procedural information acts as a guide to investigate either a threshold-exceeded condition or a high-measurement condition on the Machine Service Report (MSR) II.

Network Management-Related Tools

Tables and illustrations, with examples, show how network management data can be useful in discovering trunk-maintenance problems.

Miscellaneous Sources of Data

Procedural information contained in this subpart is relevant to the service improvement function but is not compatible with the other material presented in this section. Trap data, the worst trunk subgroup list, master control console display information, and methods of using system-generated data are included in this subpart.

2.03 Section 2—**Technical Information** contains comprehensive definitions of trouble indicators generated by the 4ESS Switch. This information includes suggestions as to the possible source of trouble. Section 2 is divided into the following two subparts.

Call-Irregularity Troubleshooting Guide

Discusses a comprehensive collection of possible trouble conditions which could result in a particular call-irregularity type.

Trouble Locating Guide

Lists information concerning each final handling code.

2.04 Section 3—**Dictionaries** contains a cross-reference dictionary which provides data relevant to final handling codes. Information contained in this dictionary is permuted two ways, numerically by **Final Handling Code** and alphabetically by **Trap Name**. Also contained in this part is information identifying the call disposition and final handling code comments, trunk register, and state vector codes.

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- 2.05** Section 4—**Miscellaneous Information** contains examples of several reports and other output data which are mentioned in Sections 1, 2, and 3 of the manual.
- 2.06** **User Notes** is included for the convenience of the user while using this handbook.
- 2.07** **Abbreviations and Acronyms** contains the definitions of all abbreviations and acronyms used in this document.
- 2.08** **Index** is to simplify the use of this document when seeking a particular part or subject matter.

Intended User

This document is intended for use in domestic 4ESS Switch offices equipped with the **4E21 or later generic** program. Call-irregularity information relevant to 4ESS Switch international switching centers is contained in 234-010-316, *International Call-Irregularity Maintenance Handbook*.

Reason for Reissue

- 4.01** This reissue is to include changes and additions introduced with the 4E27R1 generic programs.
- 4.02** This document does not contain safety labels.

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Procedural Information

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Procedural Information

1

General

This Section is to assist 4ESS™ Switch operating and maintenance personnel when recognizing and identifying troubles in the trunk maintenance area. The information in this part identifies sources of trouble-indicating data in a 4ESS™ Switch office and suggests methods of collecting that data. Flow diagrams which identify eight sources of trouble-indicating data and typical examples of these data sources along with descriptive information and suggestions for using the data are provided as aids.

The remaining parts of this document are to assist in locating the cause of the troubles.

Job Flow Diagrams

2.01 The job flow diagrams (Figures 1-1 and 1-2) illustrate a general procedure for implementing the service improvement function. Figure 1-1 illustrates the seven major steps for data collection. This diagram assumes that a schedule exists for data gathering. A schedule should be established on a local basis to conform to specific local requirements. Data from the suggested sources should be sufficient to locate nearly all problems. Figure 1-2 is a step-by-step procedural guide keyed to eight most encountered trouble situations. The seven inputs refer to a specific report or

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a display panel set of lights. These two diagrams provide a useful guide to identifying and correcting service-related problems. Any work center can perform the analysis task after the data has been gathered. Select a trouble input on a flow diagram and follow the defined path to termination. The illustrated procedures are general in nature and may be used as presented or modified to model the service improvement function in a specific office. Information contained in other parts of this section may be referenced to answer specific questions.

Machine Service Report Interpretive Aids

3.01 The Machine Service Report (MSR) interpretive aids provide information on how to investigate either a threshold-exceeded condition or a high-measurement condition on Part 2 of the Machine Service Report. Figure 1-3 is an annotated MSR-Part 2. Table 1-A provides additional information on machine service report items of most concern to the service improvement function. In providing this information (MSR-Part 2), typical patterns have been considered. These patterns may be modified to support local requirements.

3.02 With network management display tapes, it is possible to set thresholds on the MSR-Part 2. This may be accomplished through use of the MSR-Part 2, Threshold Input Page EF5. Figure 1-4 illustrates a typical EF5 input page. After establishing a threshold, a threshold-exceeded condition causes an asterisk (*) to appear beside the appropriate COUNT and five asterisks (*****) to appear beside its major category on the MSR-Part 2. (See Figure 1-3.)

- (a) If a count is too high, a threshold below the current level of performance is established. The irregularity is improved until the asterisk disappears from the MSR-Part 2. The threshold can be lowered further if additional improvement is required.
- (b) If a count is satisfactory but requires work due to an increase, a threshold close to but above the normal level is established. Then the irregularity can be investigated whenever an asterisk appears.

- (c) If a particular count is of no interest [that is, a Centralized Automatic Message Accounting (CAMA) Report in a non-CAMA office], a threshold at the default level of 9999.99 is established.

The MSR-Part 2 may be scheduled to print on any half hour, hour, or whenever a threshold is exceeded; an MSR2 is printed on the next half hour. These scheduled reports have items and categories highlighted with asterisks if a threshold has been equaled or exceeded. If a threshold is equaled or exceeded during an hour when an MSR-Part 2 **has not** been scheduled, an MSR-Part 2 is generated by the system with asterisks again highlighting the offending data. These reports are threshold reports rather than scheduled reports. A scheduled and threshold report is not printed for the same time period. The *4ESS™ Switch Translation Guide (TG4)*, Division 10, Section 4H contains information regarding the setting of thresholds.

3.03 A significant change in any of the MSR outputs indicates a possible problem. The following information, Figure 1-3 and Table 1-A, provide guidance to where and what to look for when using the Machine Service Report as a trouble indicator.

- (a) When MSR counts are high or when a threshold is exceeded, find the category in Table 1-A which corresponds to the high count and follow the recommended procedure.
- (b) To find a particular problem on the MSR, find the problem indicator in the right column on Table 1-A and check the corresponding count in the left column.
- (c) To determine if another trouble indicator is being reflected in the MSR, check (a) and (b) to find the applicable count and compare with previous MSRs for comparative data.
- (d) To determine if a particular count is applicable to a known problem, check the count against the suggested procedure for parallels.

⇒ NOTE:

A favorable change in an MSR category might indicate good operating practices.

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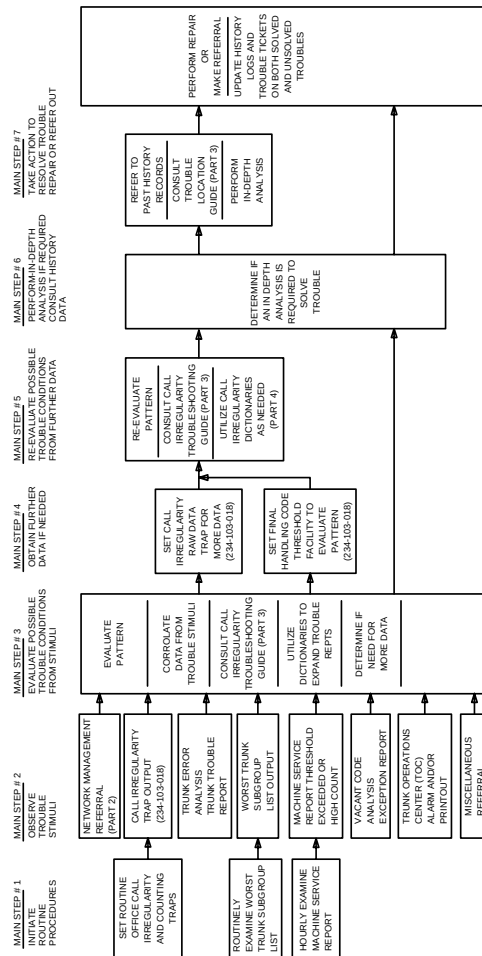


Figure 1-1. ESS™ Switch Call-Irregularity Interface — Work Flow Overview Diagram

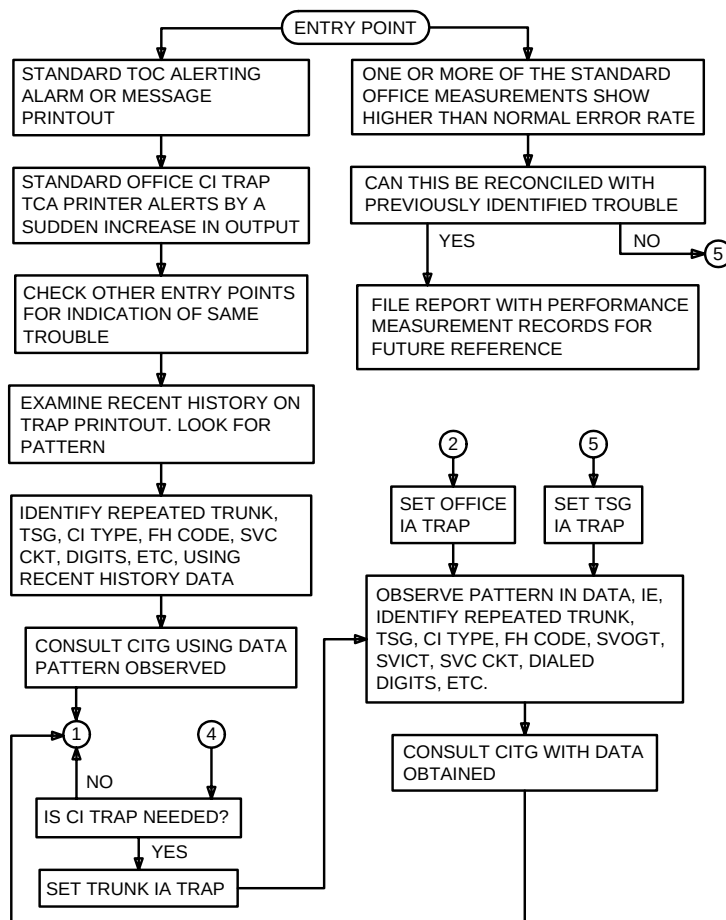


**Figure 1-2. Switch Call-Irregularity Interface — Work Flow Diagram
(Sheet 1 of 5)**

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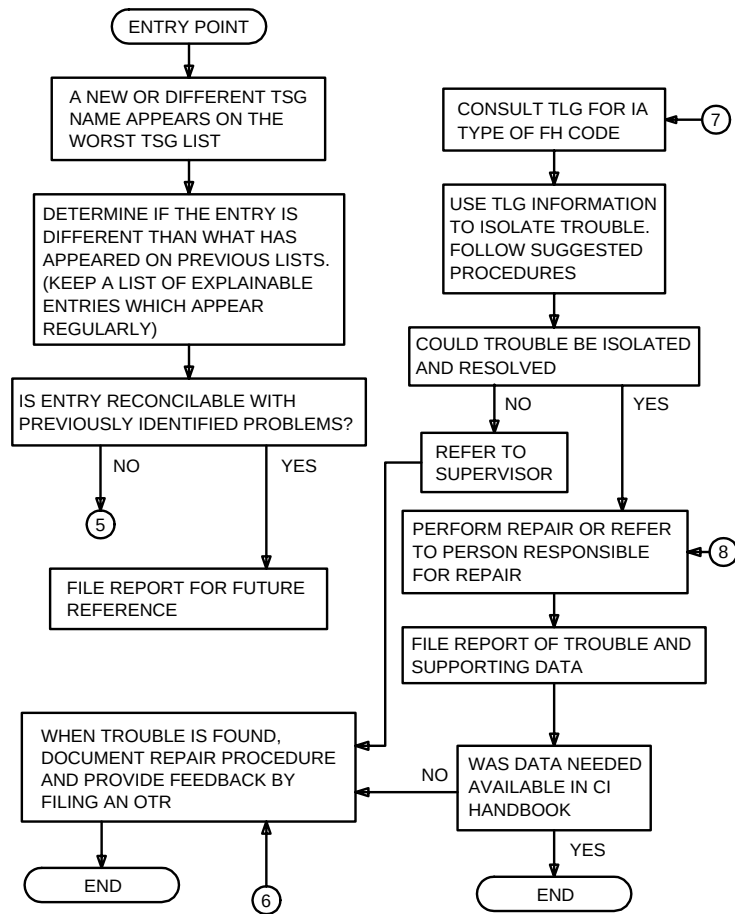


**Figure 1-2. Switch Call-Irregularity Interface — Work Flow Diagram
(Sheet 2 of 5)**

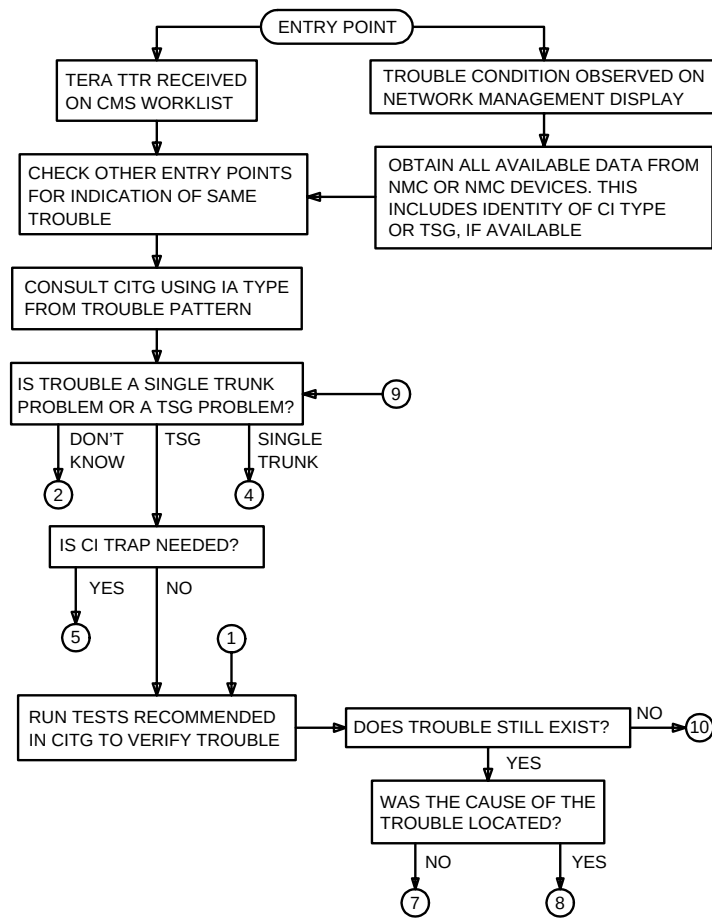


Figure 1-2. Switch Call-Irregularity Interface — Work Flow Diagram
(Sheet 3 of 5)

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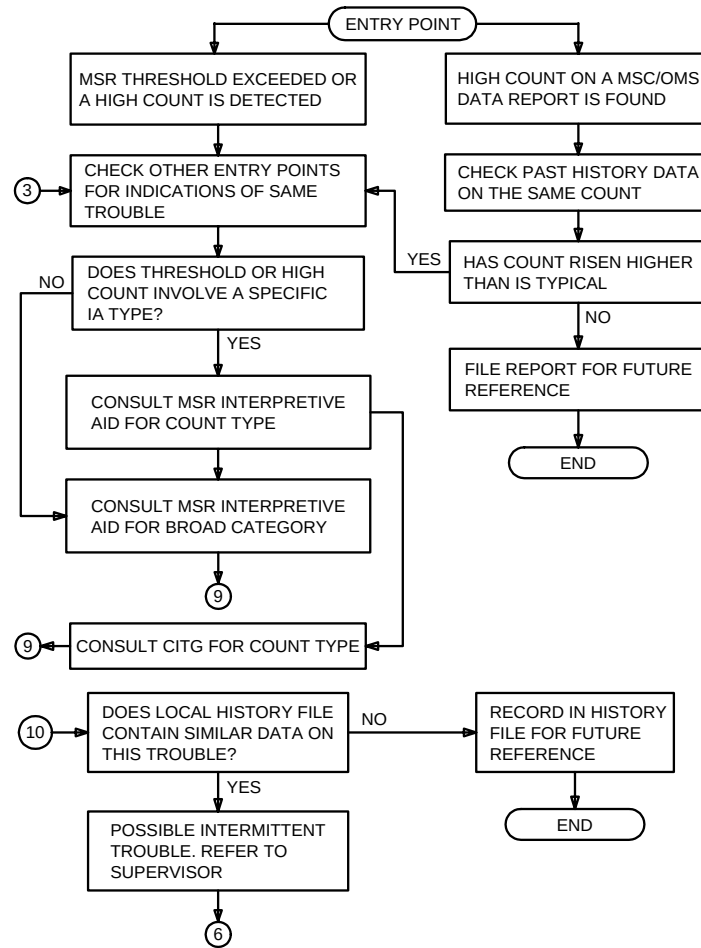


**Figure 1-2. Switch Call-Irregularity Interface — Work Flow Diagram
(Sheet 4 of 5)**

LEGEND

CI - CALL IRREGULARITY
CITG - CALL IRREGULARITY TROUBLE GUIDE (PART 3)
CMS - CIRCUIT MAINTENANCE SYSTEM
FH - FINAL HANDLING
IA - INEFFECTIVE ATTEMPT
MSC/OMS - MESSAGE SUBCLASS/OUTPUT MEASUREMENT SET
MSR - MACHINE SEVRICE REPORT
NMC - NETWORK MANAGEMENT CENTER
OTR - OFFICE TROUBLE REPORT
SVCCKT - SERVICE CIRCUIT
SVICT - STATE VECTOR INCOMING TRUNK
SVOGT - STATE VECTOR OUTGOING TRUNK
TCA - TEST CALL AREA
TERA - TRUNK ERROR ANALYSIS
TLG - TROUBLE LOCATING GUIDE (PART 3)
TTR - TRUNK TROUBLE REPORT
TSG - TRUNK SUBGROUP

**Figure 1-2. Switch Call-Irregularity Interface — Work Flow Diagram
(Sheet 5 of 5)**

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REPT: MSR PART 2 - DOMESTIC PAGE 2 OF 3

NO CIRCUIT CATEGORY \$0000		BILLING SERVICE COMPONENT		BILLING ERRORS CATEGORY \$0000	
-----		-----		-----	
	COUNT	RATIO		COUNT	RATIO
NO CIRCUIT: OGFA-NCNM	\$00000000	\$00.00	TOTAL BILLING ERR: CC	\$00000000	\$00.00
IT OUT SZ	!000000!	!00.00	AMA CALL RCDS LOST:	!000000!	!00.00
NCIT: IT OUTSZ+NC	!000000!	!00.00	FREE CALLS:	!000000!	!00.00
TC OUT SZ	!000000!	!00.00	3B RCDS LOST: 3B SENT	!000000!	!00.00
NCTC	!000000!	!00.00			
DISCOUNTABLE NC(EF7)	!000000!	!00.00	ONI FAILURE CATEGORY		
NCTC ADJ:TC OUTSZ+NC	!000000!	!00.00	-----		
NC PBX:	!000000!	!00.00	TOT ONI FAILURES: CC	!000000!	!00.00
NC STC:	!000000!	!00.00	CAMA POS DISC:	!000000!	!00.00
NC MAS: TA	!000000!	!00.00	CAMA OPER Q OVFL:	!000000!	!00.00
NC NM BLKD:	!000000!	!00.00	CAMA SZ TIMEOUT:	!000000!	!00.00
			CAMA POS REPT:	!000000!	!00.00
			CAMA POS TIMEOUT:	!000000!	!00.00
			CAMA OPER Q>5 SEC:	!000000!	!00.00
VERTICAL SERVICES CATEGORY \$0000			ANI FAILURE CATEGORY		
-----			-----		
TOTAL TERM ATT	!000000!	!000.00	TOT ANI FAILURES: CC	!000000!	!000.00
PAS	!000000!	!000.00	AIF:	!000000!	!000.00
TSPC ATT: IS-FS	!000000!	!000.00	AOF:	!000000!	!000.00
TSPC RO: INC RO	!000000!	!000.00	ANF:	!000000!	!000.00
PST: TSPC RO	!000000!	!000.00	CICR:	!000000!	!000.00
PER:	!000000!	!000.00	INV NPA:	!000000!	!000.00
PDT:	!000000!	!000.00	EA ANI FAILS-DENIED:		
TOTAL MAS TERM RO: TA	!000000!	!000.00	EA ANI	!000000!	!000.00
SDN BLKGS: SDN ATT	!000000!	!000.00	EA ANI FAILS-ROUTED:		
DSDC BLKGS: DSDC ATT	!000000!	!000.00	EA ANI	!000000!	!000.00
DAV BLKGS: DAV ATT	!000000!	!000.00			
BBC BLKGS: BBC ATT	!000000!	!000.00			
LOST CALLS TRANSIENT CATEGORY \$0000			SWITCHING CUTOFF CALLS CATEGORY \$0000		
-----			-----		
TRANSIENT: #IS-FS+OS	!000000!	!000.00	SW CUTOFF CALLS: #TCC	!000000!	!000.00
PHASE:	!000000!	!000.00	PHASE:	!000000!	!000.00
HARDWARE:	!000000!	!000.00	HARDWARE:	!000000!	!000.00
			Q.931 RESET: OGFA+TA	!000000!	!000.00
			CCS7 RESET:	!000000!	!000.00
			CCS6 RESET:	!000000!	!000.00
			CXR FAIL:	!000000!	!000.00
REDIRECTION SERVICES CATEGORY \$0000					

RDF INVP: VAL RD	!000000!	!00.00			
RDF XLAT:	!000000!	!00.00			
RDF TIMR:	!000000!	!00.00			

Figure 1-3. Annotated Domestic Machine Service Report, Part 2
(Sheet 2 of 3)

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```

REPT: MSR PART 2 - DOMESTIC      PAGE 3 OF 3

ABANDON CATEGORY $0000          VACANT CODE CATEGORY $0000
-----
COUNT      RATIO      COUNT      RATIO
FSA:          IS $000000$$$000.$0 VC CAMA:          CC $000000$$$000.!0
MF:           !000000!!000.!0 MCA:           !000000!!000.!0
DP:           !000000!!000.!0 UCA:           !000000!!000.!0
DTMF:         !000000!!000.!0 VC NON CAMA: IS-FS+OS !000000!!000.!0
PDA:          !000000!!000.!0 VCA:           !000000!!000.!0
MF:           !000000!!000.!0 IWS:           !000000!!000.!0
DP:           !000000!!000.!0 SCR:           !000000!!000.!0
DTMF:         !000000!!000.!0 OID:           !000000!!000.!0
MAB:          !000000!!000.!0 CDS:           !000000!!000.!0
MF:           !000000!!000.!0 AT DOMSAT:       !000000!!000.!0
DP:           !000000!!000.!0 RCR:           !000000!!000.!0
CCIS:         !000000!!000.!0 Q.931 (PBX): !000000!!000.!0
OTHER:        !000000!!000.!0 TSPC:         !000000!!000.!0
DP CR Q:      !000000!!000.!0
CCIS ORIG CR Q: !000000!!000.!0 MISCELLANEOUS
MF ORIG Q:    !000000!!000.!0 -----
DP ANI MF REC Q: !000000!!000.!0 SILC           !000000!
MISC:         !000000!!000.!0 BBFP           !000000!
Q931 ABAN:    !000000!!000.!0 FRAUD OVERRIDE !000000!
ISUP ABAN:    !000000!!000.!0 WFATO          !000000!
TSPC ABAN:    !000000!!000.!0 NCD             !000000!
RT OVLD       !000000!
TERM IAM RCVD !000000!

-----BASE DATA-----
TOTAL IS          !000000! NCD QUERIES          !000000!
TOTAL FS:          IS !000000!!00.!0 DOM+INTNL IS-FS+OS !000000!
TOTAL IS-FS:       !000000!!00.!0 DOM+INTNL TCC       !000000!
TOTAL DOM OTS:    IS-FS !000000!!00.!0 TOTAL CAMA CALLS    !000000!
TOTAL OGFA        !000000! TOTAL ONI CALLS      !000000!
TOTAL TA          !000000! TOTAL ANI CALLS      !000000!
DSDC INC ATT      !000000! DOM IS-FS+OS        !000000!
DSDC HANDOFF/ASST !000000! OGFA +TA            !000000!
BBC6 ATT          !000000! SDN INC ATT         !000000!
DAV INC ATT       !000000! BBC24 ATT           !000000!
VAL RD            !000000! RING OUTAGE (SEC)   !000000!

```

**Figure 1-3. Annotated Domestic Machine Service Report, Part 2
(Sheet 3 of 3)**


```

EF5      MSR PART 2 THRESHOLDS
          INHIBIT ( )
          CATEGORY [
          VALID "CATEGORIES" ARE:
          INCOMING
          CONNECTING
          OUTGOING
          NO CIRCUIT
          VERT SVCS
          LOST CALLS
          REDIRECTION SERVICES
          BILLING ERRORS
          CUTOFF CALLS
          ABANDON
          VACANT CODE
          ]

          DATA TIME $0000 $0000 SENT AT $000000
          ]
          VALID "CATEGORIES" ARE:
          REORDER-1 INTNL
          REORDER-2 INTNL
          DIG RECEIPT FAILS
          VACANT CODE-INTNL
          ABANDON-INTNL
          CONGESTION
          SIGNALING IRREGS
          NO CIRCUIT-INTNL
          1ST ATT FAILS
          ]

          DIRECTORY[ ] P[ ]

```

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 1 of 21)**

[illegible]

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 2 of 21)**

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```

EF5  MSR PART 2 THRESHOLDS          DATA TIME $$$$$$ $$$$$$ SENT AT $$$$$$$$
      INHIBIT ( )
      CATEGORY [INCOMING
INCOMING
TOTAL INC RO:          IS-FS [ . ] INCOMING
TOTAL ADJ INC RO:      . ] DTMF INC RO:          IS-FS [ . ]
MF INC RO:             . ] PST:
PST:                   . ] PDT:
PDT:                   . ] PER:
PER:                   . ] OTHER:
OTHER:                 . ] ISUP INC RO:
DP ADJ INC RO:         . ] IAD:
PST:                   . ] URS:
PDT:                   . ] RING:
PER:                   . ] BUFFER:
OTHER:                 . ] OTHER:
CCIS INC RO:           . ] Q.931 INC RO:
IAD:                   . ] IAD:
CTO:                   . ] IE:
OTHER:                 . ] RING:
CCIS INW RO:           . ] BUFFER:
                        . ] OTHER:
                        . ]
                                DIRECTORY[ ] P[ ] ]

```

Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 3 of 21)

```

EF5  MSR PART 2 THRESHOLDS          DATA TIME $$$$$$ DSPLY SENT AT $$$$$$$$
      INHIBIT ( )
      CATEGORY [CONNECTING
CONNECTING
TOT CONN RO:          #IS-FS+OS [9999.99] NO CIRCUIT
PTH HNT FL:          [9999.99] NO CIRCUIT:          OGFA-NCNM [9999.99]
DP CR Q:              [9999.99] NCIT:          IT OUTSZ+NC [9999.99]
MF XMTR Q:            [9999.99] NCTC ADJUSTED: TC OUTSZ+NC [9999.99]
CAMA OPER Q:         [9999.99] NC PBX          [9999.99]
CCIS CR Q:            [9999.99] NC STC:          [9999.99]
CCIS XCVR:            [9999.99] NC MAS:          [9999.99]
MISC:                 [9999.99] [9999.99]
2ND MFR FAIL:        [9999.99] [9999.99]
DTMF CR Q:            [9999.99] [9999.99]
DTMF XMTR Q:         [9999.99] [9999.99]
Q.931 CR Q:           [9999.99] [9999.99]
MF ORIG Q:            [9999.99] [9999.99]
ISUP XCVR:            [9999.99] [9999.99]
ISUP CR Q:            [9999.99] [9999.99]
                        [9999.99] [9999.99]
                        [9999.99] [9999.99]
                        [9999.99] [9999.99]
                                DIRECTORY[ ] P[ ] ]

```

Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 4 of 21)

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```

EF5  MSR PART 2 THRESHOLDS          DATA TIME $$$$$$ $$$$$$ SENT AT $$$$$$$$
      INHIBIT ( )
      CATEGORY [OUTGOING
      OUTGOING
      TOTAL OUT RO:          OTS [9999.99]
      UXS:                   [9999.99]
      IKF:                   [9999.99]
      NSD:                   [9999.99]
      KST:                   [9999.99]
      GLR:                   [9999.99]
      OWF:                   [9999.99]
      ADC:                   [9999.99]
      CKF:                   [9999.99]
      CFB:                   [9999.99]
      BNF:                   [9999.99]
      MOE:                   [9999.99]
      CPF:                   [9999.99]
      RING:                   [9999.99]
      BUFFER:                [9999.99]
      MISC:                   [9999.99]
      ]
      OUTGOING
      TOT Q.931 OUT RO:          OTS [9999.99]
      PBX RO:                 [9999.99]
      RING:                   [9999.99]
      BUFFER:                 [9999.99]
      OTHER:                  [9999.99]
      GLR:                    [9999.99]
      ]
      DIRECTORY[ ] P[ ]

```

Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 5 of 21)

```

EF5  MSR PART 2 THRESHOLDS          DATA TIME $$$$$$ $$$$$$ SENT AT $$$$$$$$
      INHIBIT ( )
      CATEGORY [NO CIRCUIT
      CONNECTING
      TOT CONN RD:          #IS-FS+09 [9999.99]
      PTH HNT FL:           [9999.99]
      DP CR Q:              [9999.99]
      MF XMTR Q:            [9999.99]
      CAMA OPER Q:          [9999.99]
      CCIS CR Q:            [9999.99]
      CCIS XCVR:            [9999.99]
      MISC:                 [9999.99]
      2ND MFR FAIL:         [9999.99]
      DTMF CR Q:            [9999.99]
      DTMF XMTR Q:          [9999.99]
      Q.931 CR Q:           [9999.99]
      MF ORIG Q:            [9999.99]
      ISUP XCVR:            [9999.99]
      ISUP CR Q:            [9999.99]
      ]
      NO CIRCUIT
      NO CIRCUIT:          OGFA-NCNM [9999.99]
      NCIT:                IT OUTSZ+NC [9999.99]
      NCTC ADJUSTED:TC OUTSZ+NC [9999.99]
      NC PBX                [9999.99]
      NC STC:               [9999.99]
      NC MAS:               TA [9999.99]
      ]
      DIRECTORY[ ] P[ ]

```

Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 6 of 21)

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[illegible]

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 7 of 21)**

[illegible]

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 8 of 21)**

```
EF5      MSR PART 2 THRESHOLDS          DATA TIME $0000 DPLY   SENT AT $000000
        INHIBIT ( )                      ]
CATEGORY [ BILLING ERRORS                ]
BILLING ERRORS                          BILLING ERRORS
TOTAL BILLING ERR:                       CC[9999.99]    TOTAL ANI FAILURES:       ANI[9999.99]
AMA CALL RCDS LOST:                     [9999.99]     ATF:                    [9999.99]
FREE CALLS:                             [9999.99]     AOF:                    [9999.99]
3B RCDS LOST:                           3B SENT[9999.99] ANF:                    [9999.99]
DIR SVCS NO SCAR:                       DS [9999.99]    CICR:                   [9999.99]
TOT ONI FAILURES:                       CC [9999.99]    INV NPA:                 [9999.99]
CAMA POS DISC:                         [9999.99]     EA ANI FAILS DENIED: EA ANI [9999.99]
CAMA OPER Q OVFL:                      [9999.99]     EA ANI FAILS ROUTED: EA ANI [9999.99]
CAMA SZ TIMEOUT:                       [9999.99]
CAMA POS REPT:                         [9999.99]
CAMA POS TIMEOUT:                      [9999.99]
CAMA OPER 0>5SEC:                     [9999.99]

                                          DIRECTORY[ ] P[ ]
```

Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5 (Sheet 9 of 21)

```

EF5  MSR PART 2 THRESHOLDS
      INHIBIT ( )
      CATEGORY [CUTOFF CALLS
      CUTOFF CALLS
      SW CUTOFF CALLS:      #TCC[9999.99]
      PHASE:                [9999.99]
      HARDWARE:             [9999.99]
      Q.931 RESET:          OGFA+TA[9999.99]
      CCS7 RESET:           [9999.99]
      CCS6 RESET:           [9999.99]
      CXR FAIL:             [9999.99]

      DATA TIME $0000 $0000 SENT AT $000000
      ]
      VACANT CODE
      VC CAMA:              CC[9999.99]
      MCA:                  [9999.99]
      UCA:                  [9999.99]
      VC NON CAMA:         IS-FS+OS[9999.99]
      VCA:                  [9999.99]
      IWS:                  [9999.99]
      SCR:                  [9999.99]
      ORIG:                 [9999.99]
      OID:                  [9999.99]
      CDS:                  [9999.99]
      AT DOMSAT:            [9999.99]
      RCR:                  [9999.99]
      Q.931 (PBX):          [9999.99]
      TSPC:                 [9999.99]

      DIRECTORY[ ] P[ ]

```

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 10 of 21)**

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```

EF5  MSR PART 2 THRESHOLDS          DATA TIME $$$$$$ $$$$$$ SENT AT $$$$$$$$
      INHIBIT ( )
      CATEGORY [REORDER-1 INTNL      ]
      REORDER-1 INTNL
      C5 IS-FS:          %INC [ . ]    REORDER-1 INTNL
      C6 IS:              [ . ]    TOTAL RO:          %INC+OGSZ [ . ]
      TSPC:              [ . ]    TOTAL INC RO:        %INC [ . ]
      IOC IS-FS:         [ . ]    INTNL INC RO:        %INTNL [ . ]
      IDDD:              %INB [ . ]    C5 INC RO:        %C5IS-FS [ . ]
      OPER:              [ . ]    PST:                [ . ]
      ATME:              [ . ]    PDT:                [ . ]
      TOTAL TRANSIT:     %IS-FS [ . ]    PSG:            [ . ]
      C5 OGSZ:           %OGFA [ . ]    PER:            [ . ]
      C6 OGSZ:           [ . ]    C6 INC RO:        %C6 IS [ . ]
      INTERMACH OVFL    [ . ]    IAD:            [ . ]
      SENT:              [ . ]    CTO:            [ . ]
      TOTAL INC:         [ . ]    TSPC RO:          %TSPC [ . ]
      IDDD:              %OUTB [ . ]    PST:            [ . ]
      IOTC:              [ . ]    PDT:            [ . ]
      IOC IS-FS:         [ . ]    PER:            [ . ]
      INTERMACH OVFL    [ . ]    IOC RO:          %IOC [ . ]
      REC:
      ATME:              [ . ]    PST:            [ . ]
      TELECONF ATT(ITC) [ . ]    PDT:            [ . ]
      TOLL FREE ATT(I800:) [ . ]    PER:            [ . ]
                                     DIRECTORY[ ] P[ ]

```

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 13 of 21)**

```

EF5  MSR PART 2 THRESHOLDS          DATA TIME $$$$$$ $$$$$$ SENT AT $$$$$$$$
      INHIBIT ( )
      CATEGORY [REORDER-2 INTNL      ]
      REORDER-2 INTNL
      TOT OUT RO:        %C5+C6OGSZ [ . ]    SIGNALING IRREGS
      C5 OUT RO:         %C5 OGSZ [ . ]    C5 TOTAL:          %TOT IRR [ . ]
      GLR:               [ . ]    IDLE:              %C5 IRR [ . ]
      NSD:               [ . ]    INC<ANS:           [ . ]
      URS:               [ . ]    INC>ANS:           [ . ]
      C6 OUT RO:         %C6 OGSZ [ . ]    INC DISC:         [ . ]
      ATO:               [ . ]    OUT<ANS:          [ . ]
      CKF:               [ . ]    OUT>ANS:          [ . ]
      MISC:              [ . ]    OUT DISC:         [ . ]
      SNF:               [ . ]    MISC:             [ . ]
      GLR:               [ . ]    C6 TOTAL:          %TOT IRR [ . ]
                                     IDLE:              %C6 IRR [ . ]
                                     INC DISC:         [ . ]
                                     OUT ANS:          [ . ]
                                     OUT ANS:          [ . ]
                                     OUT DISC:         [ . ]
      ATME D/R:          [ . ]    ATME D/R:          %TOT IRR [ . ]
                                     DIRECTORY[ ] P[ ]

```

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 14 of 21)**

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 17 of 21)**

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 18 of 21)**


```

EF5      MSR PART 2 THRESHOLDS
        INHIBIT ( )
CATEGORY [DIG RECEPT FAILS
DIG RECEPT FAILS
C5 DRF:      %TOTAL DRF [ . ]
OPER:        [ . ]
IDDD:        [ . ]
TRANSIT:     [ . ]
C6 DRF:      [ . ]
OPER:        [ . ]
IDDD:        [ . ]
TRANSIT:     [ . ]
TSPC DRF:    [ . ]
IOTC:        [ . ]
IDDD:        [ . ]
IOC DRF:     [ . ]
ATME DRF:    %INB ATME [ . ]

CONGESTION
TOTAL CONG:      %0GSZ [ . ]
CCITT5:          %C5 0GSZ [ . ]
BY FL OP:        [ . ]
BY FL OP:        [ . ]
CCITT6:          %C6 0GSZ [ . ]
SEC:             [ . ]
CGC:             [ . ]
NNC:             [ . ]
LOS:            [ . ]
SSB:            [ . ]
SEC WFA:         [ . ]
CGC WFA:         [ . ]
NNC WFA:         [ . ]

DIRECTORY[ ] P[ ]

```

**Figure 1-4. Machine Service Report, Part 2 — Threshold Input Page, EF5
(Sheet 21 of 21)**

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Notes

Network Management-Related Tools

General

4.01 This information on network management-related tools contains tables and illustrations which illustrate how network management data can be used to isolate trunk maintenance problems. When made available to service improvement and trunk maintenance personnel, the onsite network management exception panel and input/output devices are a good source of service improvement data. It is suggested that service improvement personnel do the following:

- Become familiar with the network management information described
- Arrange to have the data provided for analysis or the results of analysis made available
- Use the analysis results as a trouble input to access information in the rest of this document.

Network management personnel can use this information for the same purpose.

Network Management Exception Panel

4.02 Figure 1-5 illustrates the portion of the network management display which indicates the network traffic pattern. The *incoming traffic pattern* is the number of incoming seizures in thousands, including abandons. The *outgoing traffic pattern* is the number of outgoing attempts in thousands, including second trials. These figures represent the totals for the previous 15 minutes. The difference between these numbers equals total ineffective attempts. Depending on the machine load, the difference in these numbers

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should remain fairly constant. A dramatic or sudden increase in seizures without an increase in outgoing attempts could indicate machine trouble or incoming trunk trouble. A sudden increase in outgoing attempts could indicate trouble in the outgoing trunks or a far-end problem.

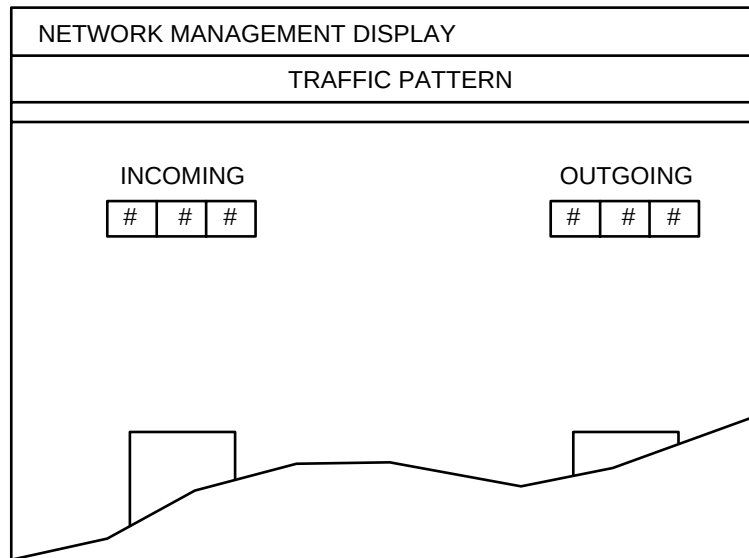


Figure 1-5. Network Management Display Traffic Pattern Indicators

Trunk Subgroup Performance

4.03 Figure 1-6 illustrates that portion of the network management display which indicates trunk subgroup performance. Trunk subgroups are divided into several study classes. Display page TG7 (Figure 1-7) lists the study class inventory. The trunk subgroup performance panel light emitting diode (LED) lights (Figure 1-3) when a threshold is exceeded. Two thresholds (high and low) are provided for each study class. An indicator lamp is provided for each threshold. Display page CN12 (Figure 1-8) describes office thresholds. Trunk subgroup performance data on the network management display panel is updated at 5-minute intervals. However, no circuit (NC) data is updated at 30-second intervals. A report, illustrated in Figure 1-9, is output every 5 minutes for each study class performance indicator that has threshold exceeded lights lit.

TRUNK SUBGROUP PERFORMANCE													
NC		OFL		ACH		CCH		NSD		OOS			
#	#												
#	#												
#	#												
#	#												
#	#												

Figure 1-6. Network Management Display Trunk Subgroup Performance Indicators

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4.04 The importance of the information presented by the trunk subgroup performance indicators varies at different intervals throughout any given day.

- (a) **NC (No-Circuit):** The lights show the number of trunk subgroups in the study class which are experiencing a no-circuit condition. A high no-circuit indication is a problem because it indicates customers are not completing calls. This problem may occur as a result of a high out-of-service condition during routine maintenance or periods of high circuit order work. However, no assumptions should be made. All no-circuit indications should be investigated based on local parameters.
- (b) **OFL (Overflow):** Indicates the percentage of calls to the trunk subgroups in the study class which are being overflowed to the in-chain reroute. (See display CN12, Figure 1-8 for thresholds.) Overflow indications are expected during busy periods on high-usage groups. However, this condition is normally accompanied by high attempts per circuit hour (ACH). An overflow indication during light traffic periods or on final and full groups should be investigated promptly.
- (c) **ACH (Attempts Per Circuit Hour):** On each trunk subgroup in a study group, this threshold indication represents the average number of attempts per circuit. This average figure is based on the total number of attempts divided by the total number of trunks in that trunk subgroup. An ACH threshold-exceeded indication, when accompanied by an OFL indication on high-use trunk groups, is not a cause for alarm. During heavy traffic periods, an ACH-threshold indication could be accompanied by a high connections-per-circuit-hour (CCH) indication of near equal value.
- (d) **CCH (Connections Per Circuit Hour):** This threshold indication is based on the total number of connections in each trunk subgroup in the study class, divided by the number of trunks in the trunk subgroup. A very high CCH on a trunk subgroup without an equivalent ACH level could indicate noisy or unusable trunks. This condition represents short holding time and should be investigated. (There is a high probability of a "pumper" on this trunk subgroup.) A high CCH level accompanied by high ACH levels during busy periods is normal.

- (e) **NSD (No Start Dial):** This indication is based on the number of outgoing attempts which receive indications of no-sender forward. This could be accompanied by a high ACH level if the second attempt is failing. Check the final trial failure trap. A high ACH level could also be the result of congestion or equipment trouble downstream.
- (f) **OOS (Out-of-Service):** This indication is based on the percentage of each trunk subgroup in the study group which is in a maintenance state. A high OOS level could be the result of normal trunk maintenance activity. When approaching a busy traffic period, attempts should be made to get as many trunks in service as possible. If OOS thresholds are exceeded at unusual times, check the 5-minute printout (Figure 1-9), outage ticket reports, or input OP:TRKSTAT;TSG (outpulsing:TRKSTAT;trunk subgroup) message for possible reasons. Heavy circuit order activity should be organized to avoid conflict with heavy traffic periods.

4.05 Figure 1-8 illustrates a typical CN12 network management display page. This display shows the actual exception panel thresholds. The thresholds are established by network management personnel to meet the requirements of a particular office. The thresholds are high enough to indicate a definite problem but low enough so troubles are detected early. Experience, judgment, educated guesses, and trial and error are used to establish the thresholds.

4.06 Figure 1-7 illustrates a typical TG7 network management display page. This page lists the trunk subgroups in a requested study class. It can also display current performance data concerning any of the trunk subgroups requested. Study classes can be set up and changed by network management personnel to reflect the needs of a particular office.

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4.07 In order to effectively use trunk subgroup performance data, the user should know what each study class contains and the general makeup of the study classes. All trunk subgroups should reflect a common community of interest. The following is a typical example of study class composition, listed in order of priority.

Study Class	Community of Interest
1	Final and Full Groups, Intertoll and Toll Connect
2	Toll Connect, High Use
3	Community Dial Offices (CDO)
4	Intertoll High Use, Large
5	Intertoll High Use, Small

Each office organizes its study classes to meet individual requirements. A total of 1023 trunk subgroups can be entered in the study classes if sufficient call store capacity is engineered in the office. It is important to select representative samples from the office load. Many offices use only four study classes, leaving class 5 free for special purposes. Again, the network management personnel are able to make changes to the study class as needed. Any trunk subgroup not in study classes 1 through 5 is in study class 0. The measurement period for classes 1 through 5 is 5 and 15 minutes; for class 0, 15 minutes only.

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```

TG7      STUDY CLASS INVENTORY          DATA TIME 10:19          SENT TO 10:23:37

CLASS[ ]2  MEASURE                      CCH  8200 KSCY MO 09 1CD 04T  —
          %OFL( ) KSCY MO 09 1CD( ) 16  AS OF %OCC 74 %OUT EIA 0
INTERVAL  ACH( ) KSCY MO 55 C60( ) 7  10:15 HT 1.1 %IN EIA 0
5 NEW( )S  CCH( )S KSCY MO 09 1UD( ) 7
5 2ND( )  %NSD( ) KSCY MO 09 1UD( ) 6          DATA TIME 10:19
5 3RD( )  %OOS( ) KSCY MO 09 1CD( ) 6  ATTEMPTS 168          ACH 16
15 NEW( )  %OCC( ) KSCY MO 05 75A( ) 6  OUTSEIZE 168          OCCH 16
          HT( ) KSCY MO 03 28C( ) 5  INSEIZE 0          ICCH 0
NO 5 MIN  OCCH( ) KSCY MO 03 23C( ) 5  OVERFLOW 0          %OFL 0
DATA FOR  ICCH( ) KSCY MO 03 MG1( ) 5  NSD 0          %NSD 0
CLASS 0    %RRT( ) KSCY MO 03 MG0( ) 5  RRT TO 0          %RRT 0
          %OUT-EIA( ) KSCY MO 02 33C( ) 5  CTO/SKIP 0
CLASS TS6S %IN-EIA( ) KSCY MO 01 MG0( ) 5  CFR/RRF 0          SIZE 60
0 2        BLSP MO CA 22F( ) 5  IDLE 26
1 23 NOTE: IGNORE KSCY MO 23 74C( ) 4  TRANSFER
2 34 'INTERVAL' IF KSCY MO 05 MG0( ) 4  DSG TSG TO
3 41 'MEASURE' IS KSCY MO 05 MGC( ) 4  OUT TSG CNTL( ) TRANSFER
4 78 %OOS, %OCC,  IN TSG CNTL( ) PART [ ] TO
5 136 HT, OR EIA  FRWD( ) PART 1  TSG DETAIL( ) NETWORK ANAL( )
6 0 BKWD( ) OF 3  TSG TREND( ) NETWORK TRND( )
7 0

10/05/77 RESTART( ) DIRECTORY[ ] P[ ]

```

Figure 1-7. Typical TG7 Network Management Display Page — Study Class Inventory

```

CN12 EXCEPTION PANEL 5' THRESHOLDS          DATA TIME          SENT AT 11:38:04
-----
          OFL      ACH      CCH      NSD      OOS
          LO HI    LO HI    LO HI    LO HI    LO HI
..TRUNK   STUDY GROUP 1 [ 1] [15] [18] [26] [16] [24] [ 3] [10] [ 5] [10]
SUBGROUP  STUDY GROUP 2 [ 1] [15] [18] [26] [17] [24] [ 3] [10] [ 5] [10]
PERFORMANCE STUDY GROUP 3 [ 5] [20] [20] [30] [18] [16] [ 3] [10] [ 5] [10]
          STUDY GROUP 4 [80] [90] [35] [40] [25] [30] [ 5] [20] [10] [25]
          STUDY GROUP 5 [85] [90] [35] [40] [25] [30] [ 5] [20] [10] [25]

          CONTROL  CHANGES
..HARD TO REACH LISTS [ 5]AUTO [ 5]INTERNAL ADD
                     [ 5]INTERNAL DELETE
                     [20]LIST OVERFLOW

-----
10/05/77 RESTART( ) DIRECTORY[ ] P[ ]

```

Figure 1-8. Typical CN12 Network Management Display Page — Exception Panel Thresholds

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```

-45 REPT: THRESHOLD EXCEEDED: TRUNK SUBGROUP DATA
TSG   = 7201 MYVI KS EL 09T 04T 2-WAY STUDY CLASS 5
      CCH = 80
TSG   = 8200 KSCY MO 09 1CD 04T 1-WAY OUT STUDY CLASS 2
      ACH = 18 CCH = 18
TSG   = 6301 ADRN MO AX 297 04T 1-WAY OUT STUDY CLASS 3
      OOS = 7%
09/27/77 14:45:04
#146

```

Figure 1-9. Typical Network Management Printer 5-Minute Printout

Network Management Display Pages

MA1 — Ineffective Machine Attempt Overview

4.08 The *machine attempt (MA)1 page* is a list of failure types, based on data collected during the previous 15 minutes. The counts are compared with allowable percentage thresholds which can be changed by network management personnel. When a threshold is exceeded, an asterisk appears next to the ineffective attempt type on the display. Figure 1-10 illustrates a typical MA1 ineffective machine attempt (IMA) overview display. Each ineffective attempt type can be displayed in the lower right corner (Figure 1-10). The threshold is displayed along with the actual measurement. On the illustrated example, permanent signal time-out (PST)³ is over the threshold of 0.4 percent. The actual failure count is only 1. Since the base count is 71, any failure causes the threshold to be exceeded. Failure data should be compared with the MA11 Machine Service Report to help establish relevancy.

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```

MA1                                DATA TIME 10:00                SENT AT 10:01:23
-----
NC ( ) ! INT Q ( ) ! TIME-- ! VAC/ ! INC FAIL ! IS 24509
AOB ! CQA ! OUTS ( ) ! IWK ( ) ! NON-- !
NCI ! CQO ! NSD ! IWS ! CAMA ( ) ! CAMA ( ) ! ANN COUNT %IS
NCT ! DED ! XST ! VCA ! CTO ! CPE !
GLR ! DQA ! ! ! IAD ! CST* ! NCA 167 0.6
! DQO ! OUT ! PSTO/ ! PDA1 ! CTR ! EA1 0 0.0
CTRL ( ) ! IWF ! FAIL ( ) ! FSA ( ) ! PDA2 ! OPA ! EA2 0 0.0
CBB ! MQA ! ATO ! CGF ! PDA3 ! OPD ! VCA 217 0.8
CFB* ! MAB ! CFD ! FSA1 ! PDA4 ! MCA ! ROA 38 0.1
CTB ! PHF ! CKF ! FSA2 ! PDT1 ! UCA ! 120 57 0.2
SDB ! OWF ! SNF ! FSA3 ! PDT2 ! ! 60 1 0.0
SRB ! TQA ! IKF ! FSA4 ! PDT3 ! !
! TQF ! UXS ! PST1 ! PDT4 ! ! OFL 0 0.0
CAMA ( ) ! HQO ! ! PST2 ! PER1 !
OQA !-----! PST3* ! PER2 ! ! IMA[ ] AT 10:00
OQO ! 1 = DP-OP ! PST4 ! PER3 ! ! PST3 IS 24509
RQA ! 2 = DP-EQ ! ! PER4* ! !
! 3 = MF-OP ! ! ! !%IMA 1.4 COUNT 1
! 4 = MF-EQ ! ! ! ! THLD 0.4 BASE 71
-----
DSG ABOVE FOR SUMMARY GO TO TSG-IMA( ) DOC-RCVD( ) OCR-INV( ) MACH-SUM( )
10/05/77 RESTART( ) DIRECTORY[ ] P[ ]

```

Figure 1-10. Typical MA1 Ineffective Machine Attempt Overview

4.09 Certain displayed data is more important to the service improvement function. Such data categories, as the following, may be improved as a result of long-term trunk analysis:

- No circuit (NC)
- Time-outs
- Outgoing failures (OUT FAIL)
- Permanent signal time-out/false start abandon (PSTO/FSA)
- Incoming failures (INC FAIL).

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Other parameters improve as a result. Each of the MA1 IMA categories can be expanded for display on separate display pages. These separate display pages and MA1 IMA categories are as follows:

- MA2 Summary: NC, Time-outs, and OUT FAIL
- MA5 Summary: VCA (vacant code)/IWK (INWATS check) and CAMA INC FAIL
- MA6 Summary: Non-CAMA INC FAIL
- MA7 Summary: PSTO/FSA.

The summary pages also contain the base count, the fail count, and the percent of IMAs for each failure category. A selected category can be expanded to display the previous hour history; an expanded updated display can be obtained every 15 minutes. Figure 1-11 illustrates a typical MA7 summary display.

MA11 — Machine Service Report

4.10 The MA11 display is equivalent to the Machine Service Report (MSR), Part 1 [See "Traps and Reports" in this section]. However, MA11 is based on data from four previous 15-minute intervals. Office performance can be monitored by calling up the MA11 display instead of waiting for the hourly MSR, Part 1. The MA11 display can reflect the three previous 5-minute intervals if requested. Figure 1-12 illustrates a typical MA11 MSR which represents the previous hour in 15-minute intervals.

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```

MA7  SUMMARY:  PST0/FSA                      DATA TIME 10:00      SENT AT 10:12:28
-----
                TYPE  %IMA  THLD  COUNT  BASE
CARRIER GROUP FAILURE  CGF( )  0.0          0  24509 TOTAL INC SEIZURES
FALSE START  DP-OP FSA1( )  0.0          0  0 DP-OP INC SEIZURES
FALSE START  DP-EQ FSA2( )  8.8        121  1369 DP-EQ INC SEIZURES
FALSE START  MF-OP FSA3( ) 11.2          8   71 MF-OP INC SEIZURES
FALSE START  MF-EQ FSA4( )  1.3       301  21763 MF-EQ INC SEIZURES
PERM SIG TIME-OUT DP-OP PST1( ) 0.0          0  0 DP-OP INC SEIZURES
PERM SIG TIME-OUT DP-EQ PST2( ) 1.0         15  1369 DP-EQ INC SEIZURES
PERM SIG TIME-OUT MF-OP PST3( ) 1.4          1   71 MF-OP INC SEIZURES
PERM SIG TIME-OUT MF-EQ PST4( ) 0.1         24  21763 MF-EQ INC SEIZURES
-----
SA2  AT 10:00  4TH  3RD  2ND  NEW  CUR      !  GO TO IMA-OVW( )
      COUNT    57   78   117  121      !
      PERCENT   4.83 5.98 8.66 8.83      !
-----
10/05/77  RESTART( )  DIRECTORY[ ]  P[ ]

```

Figure 1-11. Typical MA7 Ineffective Machine Attempt Summary

```

MA11  MSR                      DATA TIME 08:45      SNET AT 08:49:34
-----
COUNT  %  !  COUNT  %
IS--TOTAL INC SEIZURES  50294  !  2. TOTAL ABANDON: %IS  2001 3.97
FSA: %IS  1474 2.93 !  3. CAMA IRREG: %CA  43 0.88
IC-- IS MINUS FSA: %IS  48820 97.25 !  4. CARRIER FAILURE: %OC  0 0.00
CA-- TOTAL CAMA: %IC  4846 9.92 !  5. SPEED OF SERVICE
OC-- TOTAL OUTPUTS:%IC  47644 97.63 !  CAMA Q DELAY: %ONI  0 0.00
IMA REPORT: %IC  !  TEST CALL SEIZURES  433
      NC  68 0.13 !  %DELAY UNACCEPT  0 0.00
      IT  0 0.00 !  MF  0 0.00
      TC  0 0.00 !  DP  0 0.00
      AOB  0 0.00 !  CCIS  0 0.00
INTERVAL !  NM:BLKD  68 0.13 !  6. ANNOUNCEMENTS: %IC
15-MIN( ) !  CBB  0 0.00 !  NCA  65 0.13
1-HOUR( )S !  CFB  68 0.13 !  EA1  0 0.00
-----  CTB  0 0.00 !  EA2  0 0.00
      SDB  0 0.00 !  VCA  386 0.79
      SRB  0 0.00 !  ROA  79 0.16
      VC  302 0.61 !  120 IPM  119 0.24
      RO  279 0.57 !  60 IPM  0 0.00
IMA-- NOT INCL ABANDON  649 1.32 !  ANN OFL: %IC  0 0.00
ADJUSTED IMA TOTAL  279 0.57 !
10/05/77  RESTART( )  DIRECTORY[ ]  P[ ]

```

Figure 1-12. Typical MA11 — Machine Service Report

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TG9 Trunk Subgroup Trend

4.11 The trunk subgroup trend display indicates the usage of any trunk subgroup in the office. Data presented can represent either the past 15-minute activity in 5-minute intervals or the past 1-hour activity in 15-minute intervals. The 5-minute data is only available on trunk subgroups in study classes 1 through 5. The attempts per circuit hour (ACH), connections per circuit hour (CCH), and holding time indications, with percent occupancy, shows how well the trunk subgroup is performing. The indicated data can be used to further explain the trunk subgroup performance. The indicated data can also be used to monitor the performance of any trunk subgroup for comparison purposes over a period of time. Figure 1-13 illustrates a typical TG9 trunk subgroup trend display.

```

TG9 TSG TREND                                DATA TIME 10:15                SENT AT 10:18:07
BTFN TOWN ST BL FBS NBS
      ]
8200 KSCY MO 09 1CD 04T --

INTERVAL COUNTS          4TH 3RD 2ND NEW    MEASURES    4TH 3RD 2ND NEW
15 MIN( )  ATTEMPTS      548 566 589 611      ACH    18  18  19  20
15 MIN( )S  OUTSEIZE      548 566 586 603      OCCH   18  18  19  20
              INSEIZE        0   0   0   0      ICCH    0   0   0   0

STUDY      OVERFLOW      0   0   3   8      %OFL    0   0   0   1
CLASS 2    NSD           0   0   0   0      %NSD    0   0   0   0
          RRTE TO        0   0   0   0      %RRT    0   0   0   0

          OUT EIA        0   0   0   0      %OUT-EIA 0   0   0   0
SIZE 60    IN EIA        0   0   0   0      %IN-EIA 0   0   0   0

OOS        DOC CTO        0   0   0   0      HOLD TIME 0.9 0.8 0.8 1.1
NOW 0      STR OFF        0   0   0   0      %OCCUPANCY 59 55 56 74

          MAN SKIP        0   0   0   0      OFF TRANSFER      OUT TSG CONTROL( )
          MAN CTO         0   0   0   0      OFF TSG TO        IN TSG CONTROL( )
          MAN FROM        0   0   0   0      OFF              TSG DETAIL( )
                                10/05/77      RESTART( )  DIRECTORY[ ] P[ ]

```

Figure 1-13. Typical TG9 Trunk Subgroup Trend Display

Traps and Reports

- 4.12** The following data could prove useful in analysis of long-term troubles related to service improvement.
- (a) **No-Circuit Available (NCA) Trap:** Set a total office trap on the network management printer (NMPPR) 1 to trap NCA reports. The trap reports provide quick access to the trunks involved in any no-circuit condition.
 - (b) **Measurement Report (MEAS REPT) X:** Schedule an hourly measurement report to print measurement subclasses 25, 26, and 27, and output measurement sets 0 through 9 which contain the test control area counts. This data contains ineffective machine attempt counts by type plus other data about the test control area performance. Refer to Translation Guide 4 (TG4), Division 10, for additional information on scheduling Plant and Traffic Measurement Reports. (See "Measurement Subclass/Output Measurement Set")
 - (c) **Machine Service Report (MSR), Part 1:** An MSR, Part 1, should be scheduled hourly, daily, and monthly on the network management printer. The MSR, Part 1, contains comprehensive data relevant to machine performance, both good and bad. Patterns obtained from MSR, Part 1, can be used to trace the effectiveness of the service improvement function. High or unusual counts or changes in counts indicate probable trouble conditions. Traps can be set or other methods used to find what trunks caused the change.
 - (d) **Machine Service Report (MSR), Part 2:** Interpretive aid for Trunk Operations Center. See Table 1-A.
 - (e) **Machine Performance Report (MPR), Part 2:** This report, printed hourly, documents machine-related failures or absence of failures that may explain high or unusual service-trouble counts from other reports.
 - (f) **Machine Load and Service Summary (MLSS):** This report, printed hourly, shows the machine load. This data (analyzed in conjunction with MSR, Part 1, and MPR, Part 2) can be used to explain and trace trouble conditions.

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4.13 The data from these reports and traps may already be available from the Technical Control Center (TCC), Maintenance Operations Center (MOC), Network Management Center (NMC), and/or machine administrator. Previous suggestions concerning use of this information are intended to provide this data specifically to assist personnel assigned to the service-improvement function, to increase the call completion rate, and to reduce ineffective machine attempts. The NMPR1 provides 5-minute data and NCA trap data. The NMPR2 provides MSR, Part 1; MPR, Part 2; MLSS; and the MEAS REPT. The NMPR2 also provides short-term traps such as:

- No start dial
- False start abandon
- Pulsing error
- Final trial failure.

Data Recording

4.14 Figures 1-14 and 1-15 illustrate typical forms used to record the performance of a 4ESS™ Switch office from a service improvement point of view. These forms are suggested only. The service improvement function requires data of this type. However, the structure of specific data recording forms should be customized to fit individual office, district, or area requirements.

4.15 The following data should be recorded on a form similar to Figure 1-14:

- (a) **Hourly Adjusted Ineffective Machine Attempts:** Available from the hourly MSR, Part 1
- (b) **Daily Adjusted Ineffective Machine Attempts:** Available from the daily report
- (c) **Monthly Adjusted Ineffective Machine Attempts:** Available from the daily report output on the last daily report of each month.

The data recorded on a typical hourly ineffective machine attempt chart (Figure 1-11) indicates daily and weekly trends, light-load to heavy-load trends, peak trouble hours, and others. This summary can assist in deciding **when** to look for trouble. The MSR, Part 1, [See "Traps and Reports" in this section]; the MA1 ineffective machine attempt overview (See "Network Management Display Pages"); and the test control area counts (See "TOC-TCA Channel Input Messages") show **what** trouble to look for. The 5-minute data and TG9 trunk subgroup trends (See "TG9 Trunk Subgroup Trend") show **where** to look for trouble. It is suggested that all network management printer (NMPR1 and NMPR2) data be retained for 1 week to enable complete analysis of indicated trends.

4.16 A form similar to Figure 1-15 should be used to record the following:

- Monthly adjusted ineffective machine attempts
- Incoming Seizures (IS) minus False Starts (FS)
- No Circuit-Intertoll (NC-IT)
- No Circuit-Toll Connect (NC-TC)
- Equipment Reorder (ERO)
- Nonequipment Reorder (NRO).

This data may be obtained from the last daily report of each month. This monthly summary is useful for planning as well as troubleshooting.

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HOURLY IMA		MONTH _____, 19__																															
DATE/TIME		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
0100																																	
0200																																	
0300																																	
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2000																																	
2100																																	
2200																																	
2300																																	
2400																																	
DAILY ADJUSTED																																	
MONTHLY ADJUSTED																																	

Figure 1-14. Collecting Hourly Ineffective Machine Attempt Percentage Data Sample Form

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19__ MONTHLY DATA

	ADJUSTED IMA	IS-FS	NC-IT	NC-TC	ERO	NRO
JAN						
FEB						
MARCH						
APRIL						
MAY						
JUNE						
JULY						
AUG						
SEPT						
OCT						
NOV						
DEC						
YEAR TO DATE						

**Figure 1-15. Collecting Monthly Ineffective Machine Attempt Percentage
Data Sample Form**

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Miscellaneous Sources of Data

Worst Trunk Subgroup List

5.01 When used as a comparative tool, the worst trunk subgroup (WTSG) list may help point out unusual occurrences. The WTSG list should be checked at regular intervals (0200, 0800, 1200, 1600). If the same trunk subgroups (TSGs) appear for known reasons, the data may not be important. If new or different TSGs show up, the data should be investigated. Different TSGs show up at different times of the day to traffic patterns. This should be expected. High numbers of continuity polarity test failures (CPF) cause very high counts in an attempt category. Retrials may cause slightly high counts in an attempt category. Most WTSG list entries normally occur in the early morning hours (0200 to 0800). The worst of these are on each list for 24 hours. Entries for 15-minute periods other than 0200 to 0800 may be worth investigating in any case.

Total Office Trap

5.02 An office trap based on known occurrences may be set on each test control area (TCA) with a TCA qualifier, to act as an audible alert and recent history mechanism. Figure 1-16 illustrates typical input messages for setting an office trap. In a specific application, this trap should be modified to **decrease** the trap output to an acceptable level. Then, any time excessive trap-related data is output, the data should be checked for trouble patterns. The office trap should include only those call-irregularity types which reflect correctable troubles. If one particular kind of call irregularity, identified solely by its final handling code, is desired to be trapped, it may be entered as well. See AT&T 234-103-018, *Call-Irregularity Raw Data Trap* for additional information.

⇒ NOTE:

Every trap output message may not result in an accompanying ineffective machine attempt (IMA) peg in an On-site Operations Report (such as Machine Service Report, Part 2). Clarification of the trap message through final handling codes determines whether or not an IMA is pegged.

MON:IAOFC, NEW: TIMEON 0000, COUT,TCA 1! PF

M 51 MON:IAOFC, NEW TRAPN 32.
01/01/00 12:51:08
#998

51 MON:IAOFC, TRAPN 32. DATA COLLECTION STARTED.
01/01/00 12:51:08
#999

MON:IAOFC,TRAPN 32; ADD:IA (CPE,.5CPF,CST,NSD,IKF,CFL,CTR,DWF,.5PST),FHC 152! OK

⇒ NOTE:

Set one ineffective attempt office (IAOFC) trap on each test control area to separate trunks and failures.

Figure 1-16. Total Office Trap Typical Input Messages

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Total Office Final Handling Code Counter Trap

5.03 One office counting trap is available in each office that maintains a count (up to 4095) of each call irregularity based on its Final Handling Code (FHC). An hourly dumping (HRDMP) option is available which outputs the call irregularity counts at the beginning of the hour and then zeroes the counts. Use of this trap as a recent-history-statistical-patterning mechanism is encouraged. Typical input messages for this trap are as follows:

- MON:IAOFCNT,NEW:TIMEON 0000,COUT,HRDMP!
- OP:IAOFCNT,ALL!
- OP:FHCSTAT,ALL!

Final Handling Code Threshold Facility

5.04 A facility is available which allows alerting when a fixed final handling code threshold is exceeded. This facility allows the craft to specify a final handling code threshold value of 1 through 127, the alarm type (information alarm through major alarm), and an hourly or daily time interval. See AT&T 234-103-018, *Call-Irregularity Raw Data Trap*, for additional information.

Master Control Console

5.05 A group of lamps on the master control console (MCC) or appropriate display on the SMCC control console 2A indicates system activity. Two columns of lamps designated NETWORK OCCUPANCY and EQUIPMENT INEFF ATTEMPTS are of particular interest to service improvement personnel. These MCC system activity lights are illustrated in Figure 1-17. The NETWORK OCCUPANCY lights show the percentage of total machine capacity being used. The lights of the EQUIPMENT INEFF ATTEMPTS show the percentage of incoming seizures, with the exception of false start abandons, which are ending in ineffective attempts. If the indicator below the system activity indicators is lighted, that particular column indicates in the range of 0 to 10 percent. If the indicator below the system activity indicator is extinguished, that particular column indicates in the range of 0 to 100 percent. The red indicator above the system activity indicators is lighted when a predefined threshold has been exceeded. Additional information concerning the MCC is contained in AT&T 234-110-000, *Processor Peripheral Interface Frame and Master Control Console — Description* and AT&T 234-110-001, *Processor Peripheral Interface Frame and Master Control Console — Theory*.

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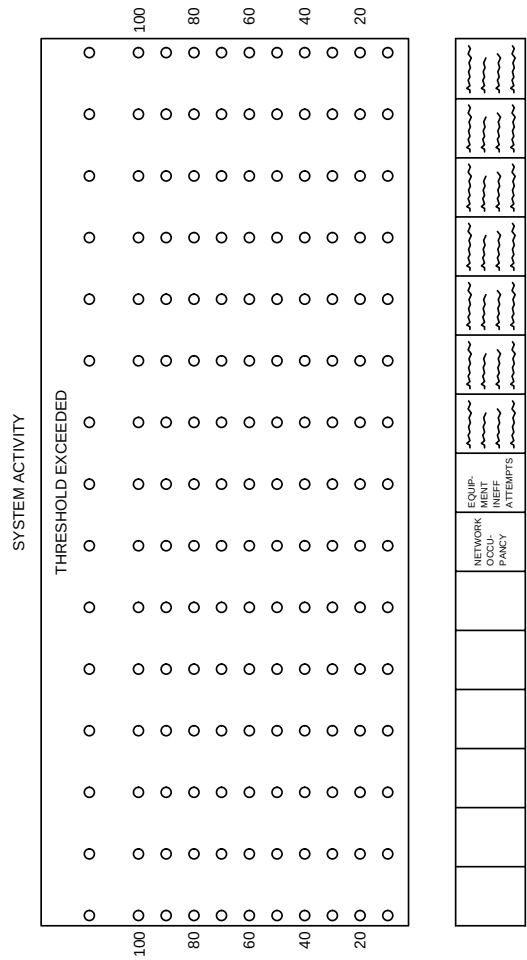


Figure 1-17. MCC System Activity Bar Graph

5.06 The EQUIPMENT INEFF ATTEMPTS column indications should remain fairly constant (4 percent to 8 percent), depending on the machine load. The NETWORK OCCUPANCY column indicators fluctuate with the load and may approach 100 percent during peak periods. Obviously, a high network-occupancy indication with a corresponding low ineffective-attempt indication is a favorable office-operating condition. Conversely, a high ineffective-attempt indication with a relatively low network-occupancy indication points to probable office problems.

CAMA Office AIF, AOF, and ANF Traps

5.07 *Traps* are an efficient means to identify malfunctioning automatic number identification (ANI) equipment in a local office. Trunk subgroup traps may be set for each local automatic message accounting (AMA) office to collect:

- **Automatic Number Identification Office Failure (AIF)** —The information digit (Part 2, Paragraph 1.05) indicates ANI failure.
- **Automatic Number Identification Local Office Failure (AOF)** —Information digit not received.
- **Automatic Number Identification Failure (ANF)** —Trouble within calling party number.

Not too many traps are required since a single trap can collect data for six trunk subgroups. Establishing matching trap numbers helps simplify analysis of collected data. An unused or infrequently used recent-change channel is the best facility to use to implement these traps. Trap activity is minimal unless a definite trouble occurs.

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TOC-TCA Channel Input Messages

5.08 Frequently used input messages can be stored on an input/output channel device screen to reduce the interval required to enter messages. The test control area (TCA) channel device is the optimum device although others may be used. Figure 1-18 illustrates some typical TCA channel input messages. A complete list of input messages is described in the IM-4A000, *Input Message Manual*.

Measurement Subclass/Output Measurement Set

5.09 The measurement subclass/output measurement set is a category of counts maintained by the 4ESS™ Switch. Each call failure reported as a final handling code causes certain counters to be incremented. These counters, in turn, are used to form several data bases. Each final handling code may be used as part of these data bases for several counts.

5.10 The measurement subclass/output measurement set counts can be accessed using the 4ESS™ Switch 0 to 23 report feature. *Machine Administration Center Traffic and Plant Measurements* TOP volume describes how to format and use these reports. The measurement subclasses of most interest to trunk maintenance personnel are classes 25 through 34. Each subclass represents the counts for an individual test control area (TCA). Measurement subclass 25 contains the counts for TCA 0; measurement subclass 26 contains the counts for TCA 1; measurement subclass 27 contains the contents for TCA 2, and others. Some final handling codes peg more than one measurement subclass. The *4ESS™ Switch Translations Guide (TG4) — Division 10*, contains a complete list of measurement subclass/output measurement sets. [See "Traps and Reports" in this section.]

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```

INIT.DGSTAT,DT ,DTU ,DG !
MON:IAOFC,NEW ADD:1A ALL, TIMEON 0000, TIMEOFF 1600,TCA 1!
MON:IATSG,NEW; ADD:CIN,NUM,IA,TIMEON 0000, TIMEOFF 1600!
OP:DGSTAT, DT ,DTU ,DG DETL:NUM 480,STAT SLL!
OP:DGSTAT, DT ,DTU ,DG ;DETL:NUM 480,STAT SLH!
OP:TRKHOLD!
OP:TERAWTSG:ALL!
OP:TERAWTSG:TCA 1!
OP:TERAWTSG:TCA 2!
OP:TRKSTAT,ALL:STAT (TRAF <CODE 2>) !
OP:TRKSTAT,ALL:STAT (TRAF<CODE 10>)!
OP:TRKSTAT,TCA 1:STAT MTC!
OP:TRKSTAT,TCA 2:STAT MTC!
OP:TSGSTAT,DETL:TCA 1!
OP:TSGSTAT DETL:TCA 2!
OP:TSGSTAT,SUM:TCA 1!
OP:TSGSTAT,SUM:TCA 2!
SCHED:TRKTEST,OPR:TIMEON 0000,TIMEOFF 0600!
SET:CONN ,TP :CIN ,MODE 4!
SET:CONN TP :CIN ,MODE 5!
SET:TRKSTAT ACT,CIN :NUM !

```

Figure 1-18. Typical TCA Channel Input Messages (Sheet 1 of 2)

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```
SET;TRKSTAT CAD.LKO,CIN          :NUM  !
```

```

SET:TRKSTAT MTC.DSA,CIN          :NUM  !
SET:TRKSTAT MTC.LKO,CIN          :NUM  !
SET:TSGATC.CIN                   :INH!
STOP:MON IAOFC.TRAPN             !
STOP:MON,IATSG,TRAPN             !
STOP:TEST TRK,CIN                ;OPR:TSG,SKPBY,PALL!
TEST:TRK,CIN                     ;OPR:TSG,SKPBY,PALL!
TEST:TRK,CIN                     TIC!
TRC:TRK,CIN                      ;HLD!
TRC:TRK,CIN                      ;RLS!
VER:CODEGP:ABC                   ,DEF ,GHI ,RDB!
VER:TRK;COR,STD:CIN              !
VER:TRKNAME,CIN                 !
VER:TSG                          ! NG

ALW:IATSG,TRAPN 28! OK

```

Figure 1-18. Typical TCA Channel Input Messages (Sheet 2 of 2)

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Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid

The following is Table 1-A.

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Notes

Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid

High Measurement Or Threshold Exceeded	TOC Responsive Action
TOT INC RO (Total Incoming Reorder)	Incoming Category: Look for high counts or thresholds exceeded in major subcounts by signaling type. Follow actions for that subcount.
MF INC RO (Multifrequency Incoming Reorder)	If MF INC RO is high and there is no single call-irregularity type which is significantly higher than others under MF INC RO, this problem is unique to MF signaling. This could be due to common control equipment on MF-type trunks or MF trunk groups. Look at worst trunk subgroup (TSG) list and recent trunk error analysis (TERA) reports to find offending MF trunk or trunk subgroup. If this does not pinpoint the equipment, an office Permanent Signal Time-out (PST), Partial Dial Time-out (PDT), or Pulsing Error (PER) trap may be set. Look for trap outputs associated with MF-type trunks or TSGs. This is most likely to be a TSG problem rather than an individual trunk problem to show up in this way on the (MSR) (Multifrequency Incoming Reorder). Assuming a MF TSG was implicated, sectionalize to the near-end, far-end, or facility. If failures are spread over a number of MF TSGs, then suspect a near-end common equipment problem — consult with the Technical Control Center (TCC) or Maintenance Operations Center (MOC) to resolve. If a single call-irregularity type is high or a threshold is exceeded, examine other incoming categories, and determine if this problem is unique to this signaling type; then consult <i>Call-Irregularity Troubleshooting Guide</i> (Section 2).

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Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
DP INC RO (Dial Pulse Incoming Reorder)	Incoming Category (Contd): If DP INC RO is high and there is no single call-irregularity type which is significantly higher than others under DP INC RO, then this problem is unique to DP signaling. This could be due to common control equipment or DP-type trunks on DP trunk groups. Look at the worst TSG list and recent TERA reports to find offending DP trunk or trunk subgroup. If this does not pinpoint the equipment, an office permanent signal time-out, partial dial time-out, pulsing error, or miscellaneous call-irregularity trap may be set. Look for trap outputs associated with DP-type trunks or TSGs. This is most likely to be a TSG problem rather than an individual trunk problem to show up in this way on the MSR. Assuming a DP TSG was implicated, sectionalize to the near-end, far-end, or facility. If the failures are spread over a number of DP TSGs, then suspect a near-end common equipment problem. Consult with the SMCC or the MOC to resolve. If a single call-irregularity type is high or a threshold is exceeded, examine other incoming reorder categories and determine if this problem is unique to this signaling type; then consult the Call-Irregularity Troubleshooting Guide (Section 2).
CCIS INC RO (CCIS Incoming Reorder)	If CCIS INC RO is high or a threshold is exceeded, examine subcounts for Incomplete Address (IAD) and Continuity Time-Out (CTO) and follow the recommended action.

Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
CCIS INC RO IAD (CCIS Incoming Reorder as a Function of Incomplete Address)	Incoming Category (Contd): If an incomplete address is detected, CCIS addresses are being received which do not contain the proper number of address digits for call setup. This usually implies a far-end CCIS signaling problem. Determine which office is causing the problem by using an office incomplete address trap, and refer the problem to the far-end.
CCIS INC RO CTO (CCIS Incoming Reorder as a Function of Continuity Time-Out)	The continuity signal from the far-end office was not received within the continuity time-out interval . This usually implies a far-end CCIS signaling problem. Determine which office is causing the problem by using an office continuity time-out trap, if available, and refer the problem to the far-end.
CCIS INW RO-NACR, DBQTO, DBO, CCFR, CCNB (No CCIS Auxiliary Call Register, Data Base Query Time-Out, Data Base Overload, CCIS INWATS Failure Reply, CCIS Network Blockage)	The NACR, DBQTO, DBO, and CCFR are CCIS INWATS related items. The CCNB may reflect CCIS INWATS or general direct signaling problems. High NACR counts would be of interest to SMCC or the MOCs personnel; whereas, DBQTO, DBO, and CCFR irregularities should be referred to the related signal transfer point (STP). High CCNB counts may indicate overloading on one or both signal links and should be discussed with Machine Administration Center (MAC)/CCIS Network Administration Center (CNAC) personnel. Trap messages are available to investigate CCFR and CCNB failures in detail.

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Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
DTMF INC RO (Dual Tone Multi Frequency Inc Ro)	Incoming Category (Contd): Follow the same general procedures as those described for MF & DP INC RO PST, PDT & PER problems. Look for FHC's in the 910 to 932 range plus 853. See 4ESS Switch TG4 DIV 10 SEC 4C for all related FHC's and consult the <i>Call-Irregularity Troubleshooting Guide</i> (Section 2).
ISUP INC RO (ISDN User Part Inc Ro)	Follow the same general procedures as those described for CCIS out-of-band signaling INC REORDER problems. See TG4 DIV 10 SEC 4C for all related FHC's, and consult the <i>Call-Irregularity Troubleshooting Guide</i> (Section 2). Common network interface (CNI) RING & BUFFER problems should be referred to the MOC as soon as possible.
Q.931 INC RO	Follow out-of-band signaling-type trouble investigation procedures similar to CCIS and ISUP. See TG4 DIV 10 SEC 4C for all related FHC's and consult the <i>Call-Irregularity Troubleshooting Guide</i> (Section 2). The CNI RING & BUFFER problems should be referred to the MOC as soon as possible.
TOT CONN RO (Total Connecting Reorder)	Connecting Category: A high TOT CONN RO count usually indicates a switching maintenance problem and should be handled by the MOC.
TOT OUT RO (Total Outgoing Reorder)	Outgoing Category: Look for high counts or thresholds exceeded in subcounts by irregularity type. Refer to the "Trouble Locating Guide" for the appropriate action. If TOT OUT RO is high and there is no single call-irregularity type

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Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
TOT OUT RO (Total Outgoing Reorder) Contd	Outgoing Category (Contd): which is significantly higher than others under the TOT OUT RO heading, a TSG problem is indicated. Set an office trap on the call-irregularity types affected and determine which TSGs and type of TSGs are causing this condition. It may also be useful to consult the worst trunk subgroup list to correlate this trap information to past poor TSG performance.
MF OR DP OUT RO (Multifrequency or Dial Pulse Outgoing Reorder)	In the case of a multifrequency or dial pulse type TSG, there may be a facility problem such as fading or an intermittent opening. In some cases, an individual trunk in the TSG could have faulty SF equipment. Observe the operation of the trunk or trunks suspected for either malfunctioning single frequency (SF) equipment or fading/hit intermittent opening. Use the appropriate far-end test line or work with operating personnel at the far-end.
CCIS OUT RO (CCIS Outgoing Reorder)	In the case of a CCIS-type irregularity pattern, only the continuity check failure is directly voice-path related. The other call-irregularity types are indicative of CCIS signaling network type problems or may be indicative of switching problems in succeeding CCIS offices. Set a call-irregularity trap for the call-irregularity types which are high to identify the TSG(s) causing the problem. Compare findings with the worst TSG listing for correlation to past trunk performance. On address complete time-out (ATO) and call-failures detected (CFD) irregularities, check with the succeeding CCIS signaling

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Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
CCIS OUT RO (CCIS Outgoing Reorder) Contd	Outgoing Category (Contd): office for recognition of this same problem either at this office or on one of the outgoing CCIS signaling trunk subgroups to determine which switching office is generating the irregularities. In the case of signaling network failure (SNF), this problem should be referred to the MOC, giving details on the TSGs involved.
TOTAL NC (Total No Circuit)	No Circuit Category: Elements of the No Circuit Report are primarily used by the Network Management Center (NMC). A high number of trunks out of service could contribute to high no-circuit counts.
TSPC ATT RO (Two-Stage Pulsing Call Attempt Reorder)	Vertical Services Category: Failures may be detected during second-stage pulsing. Since second-stage pulsing is end-to-end pulsing rather than link-to-link, a transmission problem may exist between the originating and feature office.
TOT MAS TERM RO (Total MAS Terminating Reorder)	See TOC responsive action for TOT MAS ORIG RO previously listed.
TRANSIENT	Lost Calls Transient Category: This indicates a level of transient calls are being lost due to system phase actions or system hardware failures. The MOC should be involved in reducing this count when high.

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Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
AMA CALL RCDS LOST (Automatic Message Accounting Call Records Lost)	Billing Errors Category: These records indicate the number of call records lost due to records not being listed on Automatic Message Accounting (AMA) tape.
FREE CALLS	High counts of this type should be referred to the MAC.
3B RCDS	Indicates the number of AMA call records sent from the 1A/1B Processor to the APS but were not received by the 3B.
TOT ONI FAILURES (Total Operator Number Identification Failures)	ONI Failure Category: In cases of a high CAMA EIA count, set an office trap for CAMA equipment reorder types including CAMA position error, CAMA position seizure time-out, CAMA position disconnect time-out, or CAMA Trunk Trouble Report. Determine which irregularity is prevalent and which TSG is common. Refer to the <i>Call-Irregularity Troubleshooting Guide</i> (Section 2) and follow instructions for that call-irregularity type.
CAMA POS RO (CAMA Position Reorder)	If the CAMA POS RO is high and all call-irregularity subcounts are also high or have exceeded threshold, this is a problem relating to CAMA in general. Identify the far-end office by setting an office CAMA position error or CAMA position seizure time-out trap—also CAMA position disconnect or CAMA position restart trap if available.

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Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
CAMA POS RO (CAMA Position Reorder) Contd	ONI Failure Category: (Contd) Consult the operator in the maintenance group to aid in the resolution of the trouble. If a specific call-irregularity type is high, set an office call-irregularity trap, where available, to identify the equipment causing problem. Refer to the <i>Call-Irregularity Troubleshooting Guide</i> (Section 2) for the resolution of the problem, if the call-irregularity type is identified in the guide.
CAMA OPER >5 SEC	This measure of slow-operator-connect time is of great concern to the machine administrator.
TOT ANI FAILURES (Total Automatic Number Identification Failures) ANF, AIF, AOF	ANI Failure Category: A high CAMA ANI failure count should be resolved in the MAC. Refer to <i>Call-Irregularity Troubleshooting Guide</i> (Section 2) for instructions. ANF Automatic number failure AIF Automatic identification failure AOF Automatic number identification office failure
EA ANI Failures	The number of times ANI failures occurred on Equal Access TSGs requiring ANI Digit reception is indicated.
SWITCHING CUTOFF CALLS	Switching Cutoff Calls Category: This indicates a level of established calls lost due to system-phase actions or system-hardware failures. The MAC should be involved in reducing this count when high.

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Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
TOTAL VC (Total Vacant Code)	Vacant Code Category: When the TOTAL VC count is high or has a threshold exceeded, look for high counts or thresholds exceeded in the major subcounts by a vacant code type. Follow action for that subcount in the <i>Call-Irregularity Troubleshooting Guide</i> (Section 2). If TOTAL VC is high and there is no single vacant code type which is significantly higher than others, a translations problem or a common control equipment problem is indicated. An office vacant code trap should be set, and a pattern should be established for code dialed or trunk subgroup. The MAC should be involved when resolving vacant code problems; vacant code analysis program reports are also useful. Report should be available from the machine administrator.
MCA (Misrouted CAMA)	High counts of this type should be referred to the MAC.
UCA (Unauthorized CAMA)	Refer to <i>Call-Irregularity Troubleshooting Guide</i> (Section 2) for instructions.
TOTAL ABNS (Total Abandons)	Abandon Category: When the TOTAL ABNS count is high or has a threshold exceeded, look for high counts or thresholds exceeded in major subcounts by abandon type. Follow action for that subcount in the <i>Call-Irregularity Troubleshooting Guide</i> (Section 2). If TOTAL ABNS is high and there is no single abandon type which is significantly higher than others under the TOTAL ABNS heading, a possible signaling trouble, facility trouble, or a switching

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Table 1-A. Machine Service Report, Part 2 — Trunk Operations Center Interpretive Aid (Contd)

High Measurement Or Threshold Exceeded	TOC Responsive Action
TOTAL ABNS (Total Abandons) Contd	Abandon Category (Contd): problem in the preceding office is indicated. Use the breakdown by signaling type to determine if a single signaling type is causing the trouble. Set a false start abandon, partial dial abandon, or miscellaneous abandon office trap for a short period to determine whether the problem is concentrated on a single TSG or a few TSGs leading to a single office. Contact that office to determine if the problem is defined at the end. Run signaling and operational tests to sectionalize the trouble.
FSA (False Start Abandon)	Refer to the <i>Trouble Locating Guide</i> (Section 2), using the breakdown by signaling type.
PDA (Partial Dial Abandon)	Same as the preceding.
MAB (Miscellaneous Abandon)	Refer to the <i>Trouble Locating Guide</i> , using the breakdown by signaling type.
OTHER	Queue abandons occurring at a high rate should be referred to the MOC.
TSPC (Two-Stage Pulsing Call)	A two-stage-pulsing call abandoned during the second stage. MAS update call — if excessive, contact ONAC.
Q ABNS (Queue Abandons)	Queue Category: Excessive out-of-service common control equipment can result in queue abandons or overflowing. The MOC should resolve high levels of queue abandons or overflows due to out-of-service equipment. The MAC should resolve queue abandons or overflows due to shortage of engineered capacity of common-control equipment.

Technical Information

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Technical Information

2

General

1.01 This section contains a "Call-Irregularity Troubleshooting Guide" and a "Trouble Locating Guide". This information aids in the interpretation of data collected during the course of trunk maintenance operations. Section 1 of this document describes the major sources of the data. After collecting the data, the technical information, provided in this section, can be used to define office troubles and find possible solutions to these troubles.

- (a) **The Call-Irregularity Troubleshooting Guide** provides data about each 4ESS™ Switch call-irregularity type. These call-irregularity types are categories of call failures as recognized by 4ESS Switch control software. A definition of each call-irregularity type is provided and includes suggestions relating to the reason for the particular trouble occurrence.
- (b) **The Trouble Locating Guide** is a further definition of the call failures defined in terms of final handling codes. These final handling codes are the lowest common denominator relating to call failures in the 4ESS Switch. The information provided in this guide defines the final handling codes. This guide includes timing diagrams where necessary; timing diagrams are included to help explain how control software makes decisions relating to the failure.

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Notes

Call-Irregularity Troubleshooting Guide

2.01 The Call-Irregularity Troubleshooting Guide is a collection of trouble conditions which could result in a particular ineffective attempt type. Ineffective attempt types are defined in Table 2-A which directs the user to the appropriate paragraphs in this document. These paragraphs describe possible trouble sources for each ineffective attempt type.

2.02 Table 2-A identifies most types of ineffective attempts which might occur in a 4ESS Switch office. The ineffective attempt types listed in Table 2-A refer to a high ineffective attempt rate or a high ineffective attempt count as identified by the following reports:

- Trunk error analysis
- Worst trunk subgroup list
- Machine service report
- Vacant code analysis program
- Call-irregularity trap
- Others.

The paragraph referenced with each ineffective attempt type contains descriptive information relating to the ineffective attempt.

2.03 To use call-irregularity troubleshooting data provided in this section:

- (a) Identify the ineffective attempt type which is suspected of causing a problem.
- (b) Locate this ineffective attempt type in Table 2-A.
- (c) Under the respective headings in Table 2-A, consult the type of trouble, need for further data, and unusable data encountered statements.
- (d) For each statement that applies to a particular situation, refer to the indicated subparagraph for the suggested troubleshooting information.

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The provided troubleshooting information is a result of extensive data analysis; however, it is not intended to be the final word. The information is a guide and should be expanded as experience dictates. Not all statements are provided with troubleshooting information paragraph references. As additional data is gathered and analyzed, additional references are provided.

Common Channel Interoffice Signaling (CCIS) Outgoing Addressing Failure (ADF)

- 2.04** The CCIS ADF indicates receipt of address incomplete (ADI) or vacant national number (VNN) signals.
- (a) An ADF pattern could indicate a translation problem. Establish a pattern on digits received, sent, and on incoming and outgoing trunk subgroups. Notify the Machine Administration Center (MAC) if a translation problem is suspected, and provide all collected data.
 - (b) An ADF office trap can be used to implicate the incoming and outgoing trunk subgroups involved and the address digits transmitted and received. The final handling code can also be determined. If Final Handling Code 175 is found, the Vacant Code Analysis Report can be used to isolate the problem.
 - (c) An ADF pattern usually indicates a problem in translations and seldom indicates a CCIS voice-frequency link undetected problem.

Automatic Number Identification Office Failure (AIF)

2.05 On centralized automatic message accounting (CAMA) Automatic number identification (ANI) calls, the information digit received indicates that the local office was unable to identify the calling party number.

- (a) A trunk subgroup AIF pattern may indicate an ANI equipment problem at the far end. Refer to the far end for repair. Trap data, on the calling-party number, should be given to the far-end office to aid in their troubleshooting.
- (b) The AIF office trap data can be used to identify the trunk subgroup causing the AIF failures.
- (c) An AIF pattern usually indicates a problem at the far end.

Automatic Number Identification Failure (ANF)

2.06 On CAMA ANI calls, an error is received in the calling party number digits as received from ANI equipment, or the ANI time-out interval is exceeded.

- (a) When ANFs are accompanied by pulsing errors, a digit receiver may be suspect. In this case, look for a pattern on receivers. Otherwise, suspect ANI equipment at the far end to be the problem. In this case, notify the far-end and supply data where available.
- (b) An office ANF trap or an office ANF/pulsing error trap may provide data on a near-end problem. An ANF office trap could be used if the identity of the trunk subgroup at fault is unknown.
- (c) ANFs are seldom caused by irrelevant data.

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Automatic Number Identification Local Office Failure (AOF)

- 2.07** On CAMA calls, no information digit is received. This indicates an ANI call failure.
- (a) This situation may be caused by local office ANI equipment (outpulser) congestion or possibly by a complete failure of the ANI system. This latter situation is evident by the sheer volume of AOFs received from a given office.
 - (b) An office miscellaneous call irregularity (MSC) trap could be used to identify the trunk subgroup and local office involved.

CCIS Backward Failure (BFL)

- 2.08** This points to call failures detected on outgoing CCIS trunks during call setup due to receipt of confusion, release guard, reset, clearback, or blocking signals. Backward also includes the detection of a glare condition.
- (a) A BFL pattern may result from a clearback signal received during test calls or results from a far-end-trunk out-of-service condition during call setup.
 - (b) A BFL pattern may result from test calls, a blocking condition at the far end or the receipt of incorrect address data at the far end.

Billing Number Failure (BNF)

- 2.09** In the equal access signaling (EAS) environment, calls that are final handled due to an inability to correctly generate billing data are grouped under this trap index.

CCIS Call Failure Received

2.10 This indicates receipt of a call failure (CFL) signal on an outgoing CCIS trunk. This indicates the failure of a call setup attempt due to the lapse of a time-out or a fault not covered by specific signals at a subsequent CCIS office.

- (a) A CFL trunk pattern could indicate a trunk circuit problem at a far-end electromechanical office.
- (b) A CFL trunk subgroup pattern on an outgoing trunk subgroup indicates a problem at the connecting office. Notify the far-end office.
- (c) An office CFL or a trunk subgroup CFL call-irregularity trap reveals the identity of the trunk subgroup or trunk implicated by multiple CFL failures.
- (d) Call Failures which do not pattern to a trunk subgroup or trunk can result from troubles or congestion at subsequent CCIS offices beyond the far-end connecting office.

CCIS Continuity Check Failure (CKF)

2.11 A failure of the continuity test of a CCIS trunk which is made prior to voice path cut-through.

- (a) A CKF single trunk pattern indicates a single trunk transmission problem. Run a transmission (gain, loss) test. Sectionalize if trunk fails test. Also, suspect a bad transceiver circuit at the far end.
- (b) A bad carrier group should be automatically detected as a group problem. No group analysis needs to be done. High numbers of individual CKF reports may indicate a carrier problem which has been missed by the software carrier group alarm (SCGA) algorithm. This indicates that the SCGA allow bit is not set. If so, the 4ESS Switch Electronic Systems Assistance Center (ESAC), at Indian Hill, should be notified.

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- (c) Raw call-irregularity trap data is usually not needed. However, a trap is one way to identify a faulty CCIS transceiver. This would be a low probability case and occurs infrequently.
- (d) A single trunk CKF pattern usually leads to a legitimate trouble.

Continuity/Polarity Test Failure (CPF)

- 2.12** An incoming seizure has been received on an idle one-way outgoing trunk. Trunk is not entered into trunk error analysis (TERA).
- (a) A CPF may indicate an outgoing trunk has been busied out by the far end; however, the high-and-wet (HAW) indication should identify this event.
 - (b) A translation problem at the far end could cause these apparent seizures of one-way outgoing trunk. Notify the far end if this is suspected.
 - (c) The continuity/polarity test does not peg a call attempt count, but each hit pegs an error count for the trunk subgroup. This may show up on the worst trunk subgroup list as more counts than the attempt range would indicate. If this type of event is noted on the worst trunk subgroup list, set a trunk subgroup trap for CPF on the trunk subgroup to verify the problem.
 - (d) If a translation problem is suspected, the identity of the trunk subgroup can be found by a CPF office call-irregularity trap.
 - (e) A far-end, busy-idle test or a carrier hit can cause a CPF trunk subgroup pattern. Both of these are sporadic. The hit problem usually accompanies high bursts of false-start abandons and unexpected stops. A high slip rate on a T-Carrier system can cause a CPF. A CPF on a T-Carrier system is probably the result of a loop-timing problem.

Centralized Automatic Message Accounting (CAMA) Position Trouble (CPT)

- 2.13** This represents an error made by a CAMA operator which results in the call being aborted. These errors include CAMA position disconnect.
- (a) A position problem on a manual operator board could cause a CPT trunk pattern. Notify the operator maintenance group.
 - (b) A position problem on a Traffic Service Position System (TSPS) could cause a CPT trunk subgroup pattern. Notify the operator maintenance group.
 - (c) To identify a trunk subgroup, an office CPT trap may be set.
 - (d) A random operator error may cause CPTs to occur. This usually is spread over time uniformly. During peak traffic periods, a TSPS may return a seizure followed by a disconnect when there is a possibility of the TSPS queue overflowing. This is an indication that not enough operator positions are attended.

Centralized Automatic Message Accounting Position Seizure Time-out (CST)

- 2.14** When the CAMA operator position circuit automatically recognizes a seizure, the circuit returns an on-hook on the keying trunk; if the keying trunk fails to go on-hook within 5 seconds after the seizure was sent, a CAMA seizure time-out has occurred.
- (a) A CST pattern usually indicates a single trunk equipment problem. This must be manually and operationally tested in conjunction with the far-end office operator maintenance group.
 - (b) A CST pattern occurs on TSPS trunks over a group when a troubled TSPS position is distributed over all trunks in that group. Refer to operator maintenance group.

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- (c) A group problem requires an office CST trap to identify involved trunk subgroups which can be used to isolate the office in trouble.
- (d) If the problem is a single trunk problem, trap data is not needed to further analyze.
- (e) The CSTs are seldom caused by irrelevant data.

Common Channel Interoffice Signaling Direct Signaling Failure (DSF)

- 2.15** A CCIS DSF indicates inability to send direct signaling messages through the CCIS signaling network.
- (a) None of the office CCIS links designated to carry direct signaling messages are in service.
 - (b) There are no available signaling paths through the CCIS network to the far-end signaling office or network control point.
 - (c) The network control point was unable to complete a Direct Services Dialing Capability (DSDC) call, and the office is instructed to terminate the call.

Dial Pulse Worklist Full (DWF)

- 2.16** This call irregularity indicates the dial pulse (DP) incoming worklist and/or dial pulse DP outgoing worklist is full. Therefore, an idle slot in the DP worklist cannot be found for an incoming and/or outgoing trunk. An associated final handling code (75 or 117) specifies the failure as being on an incoming or outgoing trunk.
- (a) **Incoming:** When an off-hook is received on a DP trunk, a delay dial-start dial or wink signal is returned, if required, to the calling office. Before scan and digit reception, the T-bits of the trunk is checked. T3T2 = 10 specifies collect dial-pulse digits. The signal processor then attempts to find a slot in the DP worklist for the trunk. There can be a maximum of 126 trunks on the worklist at one time. If the worklist is full,

the signal processor keeps trying on succeeding cycles until an on-hook occurs on the trunk. The on-hook can be the first pulse of the first digit, or it can be an abandon. If the on-hook is received before a slot in the DP worklist is found, a worklist full flag is set in the signal processor. If a flag was set previously, a worklist full report is sent to central control. The flag is reset when a slot in the worklist becomes idle. Until that time, succeeding calls encountering worklist full go "high and dry."

- (b) **Outgoing:** After the wink or delay-dial/start-dial signal is received on a DP trunk, an attempt is made by central control to find an idle slot for the trunk on the DP outgoing worklist; if no slot is available, the call is terminated. This should be a very infrequent occurrence. If the trunk is immediate start, no signal is received.

False Start Abandon (FSA)

- 2.17** A bid for service is received on an incoming trunk, but no digits are received; the call is abandoned prior to permanent-signal time-out.
- (a) Legitimate equipment troubles can produce FSAs. However, FSAs usually have low trouble-predicting capability.
 - (b) False start abandons are caused frequently by carrier hits. These hits usually occur in large bursts. The 4ESS Switch is very sensitive to fluctuations in supervisory signals, which cause FSAs to be recorded. The FSAs may be especially noted as coming from electromechanical systems. High numbers of FSAs on the toll connect side are usually indicative of step-by-step offices in the local area. In addition, certain test frames cause FSAs to occur during shortcut tests by the outgoing trunk test subsystem. Idling actions of far-end equipment can also cause FSAs. All causes are not known.

Far End Busy Failure (EBF)

- 2.18** A Subscriber Station Busy or a User Busy indication was received on a Q.931, CCIS or ISUP outgoing trunk. No troubles are indicated by this call irregularity. If the outgoing trunk is CCITT 5, either the far-end office or

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far-end network is congested; or the EBF signal is being returned due to waiting for answer time-out or line busy. A high number of EBFs are to be expected during certain times of the day and to certain countries. In any case, the situation is not of major concern to trunk maintenance personnel.

Final Trial Failure (FTF)

- 2.19** Final Trial Failure indicates a call has encountered a failure and no additional retrials are made.
- (a) **FTF Single Trunk Patterns** identify which call-irregularity types are related to these FTFs and act as directed by that ineffective attempt type. It is very urgent that action be taken to reduce these lost calls.
 - (b) **FTF Trunk Subgroup Patterns** identify which call-irregularity types are related to these FTFs and act as directed by that ineffective attempt type. It is very urgent that action be taken to reduce these lost calls.
 - (c) **Trap data** identifies which call-irregularity types are causing FTFs and which equipment is involved.

Whatever the cause, FTFs should be given attention as calls are being lost.

Glare Control (GLC)

- 2.20** A glare condition exists when two offices simultaneously seize the same two-way trunk. Depending upon a pre-determined setting, one office is GLC; and the other is glare release (GLR). This 4ESS Switch is the GLC office, and the far-end office should release the trunk to the control of this office.
- (a) The CCIS trunk glare control is based on trunk label. Each office is designated control of either odd or even labels in a trunk subgroup. For example, if an office controls even labels, it exercises glare control over every trunk in a subgroup that is assigned an even-numbered label.

- (b) Glare is a condition which usually does not lead to a trunk operations center repairable problem. However, in some cases a single frequency signaling unit or trunk circuit problem at the far end could cause an "off-hook" condition which would appear as a simultaneous seizure or a glare condition.
- (c) Glare can be caused by traffic peaks and tends to occur in short or long bursts.

Glare Release (GLR)

2.21 A glare condition exists (see "Glare Control" in this section), and this 4ESS Switch is the glare release (GLR) office. This office should release the trunk to the control of the far-end office.

- (a) If the trunks are delay dial-start dial, GLR reports on two-way trunks could be caused by sender congestion at the far-end office. A sudden increase in GLR reports should be handled in a manner similar to no-start dial. This condition is accompanied by an increase in false start abandons (FSAs).
- (b) Glare is a condition which usually does not lead to a trunk operations center repairable problem. In some cases, however, a single frequency signaling unit or trunk circuit problem at the far end could cause an "off-hook" condition which appears as a simultaneous seizure or glare condition.
- (c) Glare can be caused by traffic peaks and tends to occur in short or long bursts.

Integrity Check Failure (IKF)

2.22 A failure of the trunk E&M lead integrity check which is expected on delay-dial/start-dial trunk—that is, the off-hook, delay portion of the signal is not received.

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- (a) An IKF on a single-delay dial-start dial outgoing trunk can result from several different problems. If an analog trunk is involved, run a supervisory test, if available, to verify the problem. Call the far end to determine the direction of the signaling malfunction — sectionalize to component. On a digital trunk, a single trunk problem is most likely to be a far-end problem; diagnose similarly.
- (b) A near-end signal processor problem can cause an IKF group problem. Determine the common signal processor at fault by a verify message or by CMS and refer to MOC for a signal processor test. A far-end group problem could be the result of a far-end lockout; check with the far-end office.
- (c) An IKF office trap could identify the trunk subgroup involved if this is unknown.
- (d) An IKF pattern is seldom due to irrelevant data. On some occasions, IKFs are caused on a two-way multifrequency or dial-pulse group by carrier failures in the transmit direction. This is a burst phenomenon.

800 Service (INWATS) Out-of-Band Screening Failure (INW)

2.23 This indicates the zonal band check on the 800 Service call has failed. That is, the calling party is outside the area served by that particular 800 Service number.

- (a) This usually is a group problem relating to faulty translations or faulty screening. Determine source of problem (that is, trunk subgroups) and refer the problem to the MAC.
- (b) An INW office trap reveals the source and nature of the faulty translation by trunk subgroup.
- (c) Usually random occurrences of illegal 800 Service usage are screened prior to reaching the 4ESS Switch office.

Miscellaneous Abandon (MAB)

- 2.24** A bid for service is abandoned prior to completion of outpulsing and after the completion of impulsing.
- (a) A legitimate trunk circuit problem may cause MABs. However, MABs are usually due to random occurrences of irrelevant data.
 - (b) Trap data could identify the final handling code if a problem is suspected. Usually the trapping of MABs is of little payoff.
 - (c) Customer abandons frequently cause MABs to occur.

Misrouted Centralized Automatic Message Accounting [CAMA (MCA)]

- 2.25** This indicates that the check on routing shows that the call should have been completed locally.
- (a) An MCA pattern usually indicates a translation or screening problem. Determine the source of the problem (that is, trunk subgroups) and refer the problem to the Machine Administration Center.
 - (b) An MCA office trap reveals the source and nature of the faulty translation by trunk subgroup.

Miscellaneous Call Irregularity (MSC)

- 2.26** An MSC trunk subgroup pattern may indicate a group problem. An 800 SERVICE-type MSC pattern may indicate a translation problem at far end. Verify this suspicion by using the digit field in the call-irregularity trap data. If an inconsistency is found, notify the far-end office. Failure to obtain an outgoing trunk in three attempts may indicate a trunk subgroup problem on the outgoing trunk group. Check the out-of-service condition of the implicated trunk

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subgroup. In the third case, a dial-pulse early digit (DPED) condition could indicate a far-end problem. Notify the far end of signaling conditions which exist.

Trap data—MSC office or MSC trunk subgroup—is needed to determine the final handling code applicable to make the diagnosis.

Other than those listed in the preceding paragraph, there can be MSC patterns due to random events. These can be either trunk or trunk group patterns.

No Circuit Available (NCA)

2.27 This indicates all the available routes in the routing chain are busy.

- (a) This incoming call irregularity usually shows up as a result of an outgoing group problem, and an outgoing route is usually implicated. The final route is given on the trap message, but the problem could be down the chain further. Look for carrier failure or high and wets on outgoing trunks. Observe outgoing digits to implicate an outgoing route problem. Troubleshoot according to the indicated patterns of the problem; that is, sectionalize the outgoing trunk group. Network management may be interested in this problem as well; notify the Network Management Center (NMC).
- (b) An NCA office trap provides the identity of the common outgoing digits from which the problem outgoing route is implicated. Verification of the route for this set of outgoing digits—verify routing data block—implicates any primary routes which may be the underlying cause of this problem.
- (c) Some system restrictions may cause randomly-distributed irrelevant data, especially related to high traffic conditions.

CCIS National Congestion (NCS)

- 2.28** This indicates that national trunk congestion or national switching congestion signals have been received on outgoing trunk.
- (a) When an NCS trunk subgroup pattern is observed, it usually indicates congestion. Refer this information to the NMC.
 - (b) An office NCS trap may be used to determine outgoing trunk causing NCS activity.
 - (c) Random traffic congestion sometimes causes NCS patterns to occur, but this pattern is usually rare.

No Start Dial (NSD)

- 2.29** On multifrequency or dial-pulse, delay-dial trunks, the delay-dial signal (off-hook) from the office persists beyond the transmitter time-out interval. On wink-start trunks, the first part of the wink (on-hook to off-hook) is not received within the transmitter time-out interval or the second part of the wink (off-hook to on-hook) is not received within a specified interval of receipt of the first part of the wink. If trunks are two-way delay dial-start dial, a condition [GLC (refer to "Glare Control" in this section) or GLR (refer to "Glare Release" in this section)] results. If GLC occurs on the first attempt and the condition persists, an NSD report is received.
- (a) An NSD pattern on a single delay dial-start dial or wink-start trunk can result from several problems.
 - On a delay-dial/start-dial trunk, the problem is probably a single trunk far-end problem. Call the far-end office and sectionalize. Suspect a far-end trunk circuit. Run a supervisory test, if available, to verify the problem. Call the far end to determine the direction of the signaling malfunction. Sectionalize to component.
 - On a wink-start analog trunk, run a supervisory test, if available, to verify the problem. Call the far end to determine the direction of the signaling malfunction. Sectionalize to component.

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- On a wink-start digital trunk, a single trunk NSD pattern is usually a far-end problem. Diagnose similarly.
- (b) A near-end problem may cause an NSD trunk subgroup pattern. Determine by a verify message if a common signal processor is involved; if a common signal processor is involved, refer to the MOC for a signal processor test. On wink trunks, an NSD group pattern could indicate a far-end disable. Call the far end in this event. On delay-dial/start-dial trunks, this would show up as an integrity check failure.
- (c) An office NSD trap could be used to identify an involved but unknown trunk subgroup. The final handling code can also be used to determine if a wink start or delay-dial/start-dial trunk is involved. This information can also be obtained by a verify input message.
- (d) Far-end congestion on delay-dial/start-dial trunks can cause trunk subgroup NSD patterns to form due to sender delay. This may be slightly bursty correlating with the far-end busy hour. NSDs can often be due to delay-dial/start-dial trunks being coded wink in the 4ESS Switch office.

Partial Dial Abandon (PDA)

- 2.30** A bid for service is received on an incoming trunk; and at least one digit but less than the expected number of digits is received; and the bid is removed prior to partial dial time-out.
- (a) On MF signaling, PDAs usually indicate per trunk equipment failures. The far-end trunk circuit is suspect. Notify far end, supplying all data.
 - (b) For single trunk problems, if the type of signaling has not been identified, a PDA-trunk, call-irregularity trap would identify the final handling code from which the signaling type can be determined; otherwise, trap data is not needed.
 - (c) The PDAs on dial-pulse-immediate-start trunks can be caused by the customer. This may show up as a single trunk pattern or as an office or group pattern. This level would be proportional to the amount of offered traffic.

Partial Dial Time-out (PDT)

- 2.31** At least one but less than the expected number of digits is received prior to time-out on an incoming trunk.
- (a) In some cases, a group problem may manifest itself as one or more trunk error analysis reports on trunks in that group. This could be a single trunk problem; have the far end to place a call on this trunk.
 - (b) A group of trunks which is high in PDTs could infer a far-end common equipment problem—for example, a sender with a missing digit. The far-end office should be notified and all data obtained should be made available. High PDTs for a short term indicate possible carrier trouble.
 - (c) If data does not identify equipment, trap office PDTs are used to identify the TSG involved. A PDT-trunk subgroup trap can also be set to identify final handling code.
 - (d) On multifrequency trunks or dial-pulse, delay-dial/start-dial trunks, PDTs indicate equipment problems. Long-term analysis is necessary to pinpoint trouble.
 - (e) On dial-pulse, immediate-start CAMA trunks, PDTs can be caused by the customer, and typically, this type of pattern is uniformly spread over time .

Pulsing Error (PER)

- 2.32** Involves one of the following:
- **Mutilated Digit** — On multifrequency pulsing calls, a single frequency or more than two frequencies are received in a digit pulse.
 - **Misplaced Start** — On multifrequency pulsing calls, a start signal is received in an improper position; the general result of this is a “too few digits received” condition.
 - **False Key Pulse** — On multifrequency pulsing calls, a second key pulse signal is received after some digits have been received.

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- **Extra Digit** — More digits are received than expected.
 - **Extra Pulse** — On dial-pulse calls, an eleventh pulse is received for a single digit.
 - **Pulsing Error Other** — This includes such things as a valid multifrequency code which is an illegal character or any other error not covered by one of the preceding paragraphs.
- (a) In some cases, a group problem may manifest itself as one or more trunk error analysis reports on trunks in that group. On dial-pulse trunks from common control offices, single trunk PER problems are likely to occur. Set a PER trap on this trunk and ask far end to dial in using this trunk and compare received digits to digits dialed. This could uncover a trunk circuit problem. Single trunk problems on operator trunks are indicated by final handling code and should be dealt with in a similar fashion.
- (b) A multifrequency group which is high in PERs could infer a far-end or near-end common equipment problem. If these are due to a near-end common equipment problem, several TSGs may exhibit high PER rates. In this case, use the office trap, and trap all multifrequency receivers on PERs to identify the multifrequency receiver. A dial-pulse group from a step-by-step office, which is high in PERs, indicates probable far-end trunk circuit problems. Verify with the far end that all options required for split pulse and contact chatter suppression have been applied. The 4ESS Switch signaling compatibility guide relates the options for specific trunk circuits. In general, a PER problem is usually a trunk subgroup problem except as noted in the preceding paragraph (a).
- (c) If data does not identify the equipment, the trap office PERs are used to identify the trunk subgroup involved. The trap also identifies the type of pulsing error that is occurring and the final handling code implicating a single trunk or common equipment problem. Always set the most specific trap possible to obtain this data, using trunk subgroup if known; and, in case of a single trunk problem, use a PER trunk subgroup trunk trap.

- (d) On trunks from common control offices, patterns are seldom due to irrelevant data. An exception is PER due to test calls. Far-end test-board personnel occasionally attempt to make manual calls directly into the 4ESS Switch office. This could result in PERs.
- (e) Operator trunks and immediate start trunks from noncommon control offices are likely to have PER due to irrelevant data, which is roughly spread over time uniformly.

Path Hunt Failure (PHF)

2.33 If a path through the switching network cannot be found to connect an incoming trunk to an outgoing trunk or service circuit, a path hunt failure has occurred.

Permanent Signal Time-out (PST)

- 2.34** A bid for service is received on an incoming trunk, but no digits are received within the time-out interval.
- (a) In some cases, especially on nonrandom hunt trunk subgroups, a group problem may manifest itself as a trunk error analysis report on a single trunk. There is a possibility of a trunk circuit failure causing PSTs on a single trunk. Run an operational test and/or have the far end to place a call on this trunk.
 - (b) A group which is high in PSTs could be the result of the far end seeing no start dial. If these PSTs are bursty or sporadic—that is, occurring in large amounts over short time intervals but infrequently—suspect a carrier hit problem. [See Paragraph (d).] If a far-end equipment problem is suspected, notify the far-end; identify which trunk subgroups are involved, and pass on any data.
 - (c) If data does not identify equipment, trap office PSTs identify the trunk subgroups involved.

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- (d) A carrier hit problem may appear as a large burst of PSTs over a duration of seconds. If these occur repeatedly, notify near-end-carrier personnel of this problem.

Q.931 Protocol Error (QPE)

- 2.35** On a Q.931 trunk, a Q.931 signaling message irregularity has occurred. Errors include invalid message type, incorrect or missing message contents, or sending/receiving Q.931 message in an invalid state.

Multifrequency Receiver Queue Abandon (RQA)

- 2.36** A Centralized Automatic Message Accounting (CAMA) call is abandoned while on the queue awaiting a multifrequency receiver.
- This event is probably an office trouble of some type. The Maintenance Operations Center (MOC) is alerted through their own devices. This should be a low runner case in the 4ESS Switch.

CCIS Signaling Trouble (SGT)

- 2.37** This indicates time-out of signals or message refusal received.
- (a) An SGT trunk subgroup pattern usually indicates a CCIS voice frequency link problem or trouble at a signal transfer point. Determine the voice frequency link route causing pattern and report to the MOC. This is a trouble to be resolved in the MOC.
 - (b) Use a SGT office trap to find the voice frequency link route causing troubles and the final handling code describing the exact nature of the SGT.
 - (c) The irrelevant data content of the SGT patterns is currently unknown. In some cases, congestion can cause SGT patterns to occur.

Test Call Error (TCE)

- 2.38** This indicates a first trial routine operational test failure. The test is retried; and, if the second test fails, the trunk is reported.
- (a) A single trunk TCE pattern should be matched with automatic trunk reports.
 - (b) A TCE trunk subgroup pattern may indicate far-end operational test line problems. Notify the far-end office.
 - (c) Use the office TCE trap to identify far-end office involved by looking for repeating trunk subgroups.

Multifrequency Transmitter Queue Abandon (TQA)

- 2.39** All outgoing calls requiring MF outpulsing access a transmitter via the transmitter queue. After the wink or delay-dial/start-dial signal has been received on an MF trunk, the call register associated with the call is placed on a queue for a transmitter. If the incoming trunk goes on-hook while the call register is on this queue, a TQA is recorded.

Unauthorized Centralized Automatic Message Accounting [CAMA (UCA)]

- 2.40** A check indicates that the dialed number is unauthorized for CAMA (that is, operator codes).
- (a) A UCA trunk subgroup pattern is very likely to indicate either a translation problem in the far-end office or heavy fraudulent use. Check far-end screening and have the problem resolved, if necessary. Otherwise, if fraudulent use is suspected, refer the problem to management.

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- (b) An office UCA trap reveals the source of the problem by trunk subgroup.
- (c) A UCA pattern is very trouble indicative.

Unexpected Stop (UXS)

2.41 An unexpected stop dial includes the following stop dial occurrences:

- Any stop dial during pulsing on a multifrequency trunk
- Any stop dial during pulsing on a dial-pulse trunk that does not have expected stop-go class
- A second stop dial during pulsing on a dial-pulse trunk that does have expected stop-go class
- On dial pulse expected stop-go trunks, a stop dial should be received after the first, second, or third digit is transmitted. An off-hook at any other point is a UXS.

A UXS pattern on a single trunk usually indicates a far-end trunk circuit problem. Run an automatic operational test. Translate results using the *Output Message Manual*. Notify the far-end if a problem is found.

A UXS pattern on a specific digit or digit pattern implicates a far-end trunk equipment problem. In this case, coordinate with the far-end supplying all information.

A UXS office trap can be used to identify a final handling code or a digit pattern.

A UXS pattern on a trunk subgroup usually indicates a carrier hit and is of a bursty nature. This usually is coupled with a concurrent burst of false start abandons, permanent signal time-outs, and continuity polarity test failures. A usable pattern is usually a single trunk pattern.

Vacant Code (VCA)

2.42 Unassigned routing digits are received for the call.

- (a) A vacant code pattern usually indicates a translation problem but could also be the result of defective far-end hardware, especially in the case of an electromechanical office. Using the identity of the office causing vacant code problems, determine if there is any clear pattern in the digits. Notify the far-end office of the pattern detected and its magnitude; supply any information collected.
- (b) The vacant code analysis package automatically prints call details on the call causing a pattern to be completed. This and the pattern detected—digit or trunk group—is usually sufficient. However, if further information is needed, a vacant code trunk subgroup trap can be set.
- (c) There are numerous vacant code patterns caused by customer or operator action. This usually results from repeated dialing of an improper number. The automatic vacant code analysis program attempts to filter out these occurrences, but their existence should be kept in mind as a possible cause of any pattern.

Waiting Answer Time-out (WAT)

2.43 This trouble occurs only on customer-originated calls. It normally indicates a failure by a distant network to return an answer signal. The time-out interval for this event is specified on the 406C form and may range from 10 to 1270 seconds. Presumably, the calling party abandons the call before time-out occurs. The transmit path is not connected until an answer signal is received.

Expected Stop Time-out (XST)

2.44 On any dial-pulse trunk with an expected stop-go class, an expected stop dial signal is received during outpulsing and persists beyond the transmitter time-out interval.

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- (a) An XST pattern on a single trunk usually indicates a far-end trunk circuit problem. Run an automatic operational test. Notify far end if a problem is found.
- (b) Call-irregularity trap data is usually not useful. When the problem cannot be easily duplicated, a trunk subgroup trap could be used to permit manual patterning on a single digit which could be repeatedly failing in the far-end trunk register equipment.
- (c) The XSTs are seldom due to irrelevant data and usually indicate a single trunk problem. Occasionally, a far-end common equipment problem may result in an XST trunk subgroup pattern. An XST could be the result of trouble between a class 4 and a class 5 office. The class 5 returns supervision on seizure of the trunk by the class 4. The supervision is passed back to the 4ESS Switch which then continues to outpulse. If this supervision is not returned, switch XST results.

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Call-Irregularity Troubleshooting Guide Table

The following is Table 2-A.

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Notes

Table 2-A. Call-Irregularity Troubleshooting Guide Table

Ineffective Attempt Type	Type of Trouble			Need for Further Data			Unusable Data Encountered	
	Single Trunk	Trunk Subgroup	Network	Non-Trouble	Use Call-Irreg. Trap	Call-Irreg. Trap Not Needed	Seldom Occurring	Frequently Occurring
Paragraph								
CCIS Outgoing Addressing Failure (ADF)		1.04(a)			1.04(b)		1.04(c)	
ANI Office Failure (AIF)		1.05(a)			1.05(b)		1.05(c)	
ANI Failure (ANF)		1.06(a)			1.06(b)		1.06(c)	
ANI Local Office Failure (AOF)		1.07(a)			1.07(b)			
CCIS Backward Failure (BFL)			1.08(a)					1.08(b)
Billing Number Failure (BNF)	1.09							
CCIS Call Failure Received (CFIL)	1.10(a)	1.10(b)			1.10(c)			1.10(d)
CCIS Continuity Check Failure (CKF)	1.11(a)	1.11(b)			1.11(c)	1.11(d)		
Continuity/Polarity Test Failure (CPF)	1.12(a)	1.12(b)			1.12(c)	1.12(d)		1.12(e)
CAMA Position Trouble (CPT)	1.13(a)	1.13(b)			1.13(c)			1.13(d)

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Table 2-A. Call-Irregularity Troubleshooting Guide Table

Ineffective Attempt Type	Type of Trouble				Need for Further Data		Unusable Data Encountered	
	Single Trunk	Trunk Subgroup	Network	Non-Trouble	Use Call-Irreg. Trap	Call-Irreg. Trap Not Needed	Seldom Occurring	Frequently Occurring
	Paragraph							
CAMA Position Seizure Time-Out (CST)	1.14(a)	1.14(b)			1.14(c)	1.14(d)	1.14(e)	
Direct Signaling Failure (DSF)			1.15					
Dial Pulse Worklist Full (DWF)						1.16		
False Start Abandon (FSA)				1.17(a)				1.17(b)
Far End Busy Failure (EBF)								1.18
Final Trial Failure (FTF)	1.19(a)	1.19(b)			1.19(c)		1.19(d)	
Glare Control (GLC)		1.20(a)		1.20(b)				1.20(c)
Glare Release (GLR)		1.21(a)		1.21(b)				1.21(c)
Integrity Check Failure (IKF)	1.22(a)	1.22(b)			1.22(c)		1.22(d)	
INWATS-Out-of-Band Screening Failure (INW)		1.23(a)			1.23(b)		1.23(c)	

Table 2-A. Call-Irregularity Troubleshooting Guide Table

Ineffective Attempt Type	Type of Trouble				Need for Further Data		Unusable Data Encountered	
	Single Trunk	Trunk Subgroup	Network	Non-Trouble	Use Call-Irreg. Trap	Call-Irreg. Trap Not Needed	Seldom Occurring	Frequently Occurring
	Paragraph							
Miscellaneous Abandon (MAB)				1.24(a)	1.24(b)			1.24(c)
Misrouted CAMA (MCA)		1.25(a)			1.25(b)		1.25(c)	
Miscellaneous Call-Irregularity (MSC)		1.26(a)			1.26(b)			1.26(c)
No Circuit Available (NCA)		1.27(a)	1.27(b)		1.27(c)			
CCIS National Congestion (NCS)		1.28(a)			1.28(b)			1.28(c)
No Start Dial (NSD)	1.29(a)	1.29(b)			1.29(c)			1.29(d)
Partial Dial Abandon (PDA)	1.30(a)				1.30(b)			1.30(c)
Partial Dial Time-Out (PDT)	1.31(a)	1.31(b)			1.31(c)		1.31(d)	1.31(e)
Pulsing Error (PER)	1.32(a)	1.32(b)			1.32(c)		1.32(d)	1.32(e)
Path Hunt Failure (PHF)						1.33		
Permanent Signal Time-Out (PST)	1.34(a)	1.34(b)			1.34(c)			1.34(d)
MF Receiver Queue Abandon (RQA)				1.36(a)				

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Table 2-A. Call-Irregularity Troubleshooting Guide Table

Ineffective Attempt Type	Type of Trouble				Need for Further Data		Unusable Data Encountered	
	Single Trunk	Trunk Subgroup	Network	Non-Trouble	Use Call-Irreg. Trap	Call-Irreg. Trap Not Needed	Seldom Occurring	Frequently Occurring
	Paragraph							
CCIS Signaling Trouble (SGT)		1.37(a)			1.37(b)		1.37(c)	
Test Call Error (TCE)	1.38(a)	1.38(b)			1.38(c)			
Multifrequency Transmitter Queue Abandon (TQA)						1.39		
Unauthorized CAMA (UCA)		1.40(a)			1.40(b)		1.40(c)	
Unexpected Stop (UXS)	1.41(a)	1.41(b)			1.41(c)			1.41(d)
Vacant Code Announcement (VCA)		1.42(a)			1.42(b)			1.42(c)
Expected Stop Time-Out (XST)	1.44(a)				1.44(b)		1.44(c)	

Call-Irregularity Trouble Locating Guide

4.01 This Trouble Locating Guide contains all available final handling code information that is in a form which is useful to system operating personnel. Final handling codes allow the 4ESS Switch control software to tag all call abnormalities with a unique failure type. Final handling codes serve as a stimulus for pegging certain counters, identifying the call-irregularity type, and for initiating trunk error analysis (TERA) processing. When a data dumping trap is set for a particular call-irregularity type, each failure printed contains a final handling code. Final handling code descriptions contain the following to effectively translate call failures to English. The descriptions:

- A comment which summarizes the failure
- What happens to various types of call failures
- Information used by control software to initiate specific actions.

Not all final handling codes require a description; however, all final handling codes are listed in Tables 3-A and 3-B.

Final handling codes from specific failures can also pinpoint errors in office translations and hardware assignments. For example, wink-start failures on delay-dial trunks would indicate a problem of this type.

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4.02 The remaining paragraphs in Section 2 describe the domestic final handling codes which are used for over 90 percent of all call failures. These descriptions are arranged in numeric final handling code order. Part 4 contains additional information related to final handling codes.

⇒ NOTE:

Five final handling codes are designated as input final handling codes. These input final handling codes identify the original failure which is reported to the Trunk Maintenance Administration (TMAD) program. For these four input final handling codes, the TMAD performs further data checks, processing, and assigns a final handling code which is different from the input final handling code. Figure 2-1 illustrates the relationship between input final handling codes and "expanded" final handling codes. Figure 2-1 also shows the factors involved in the conversion.

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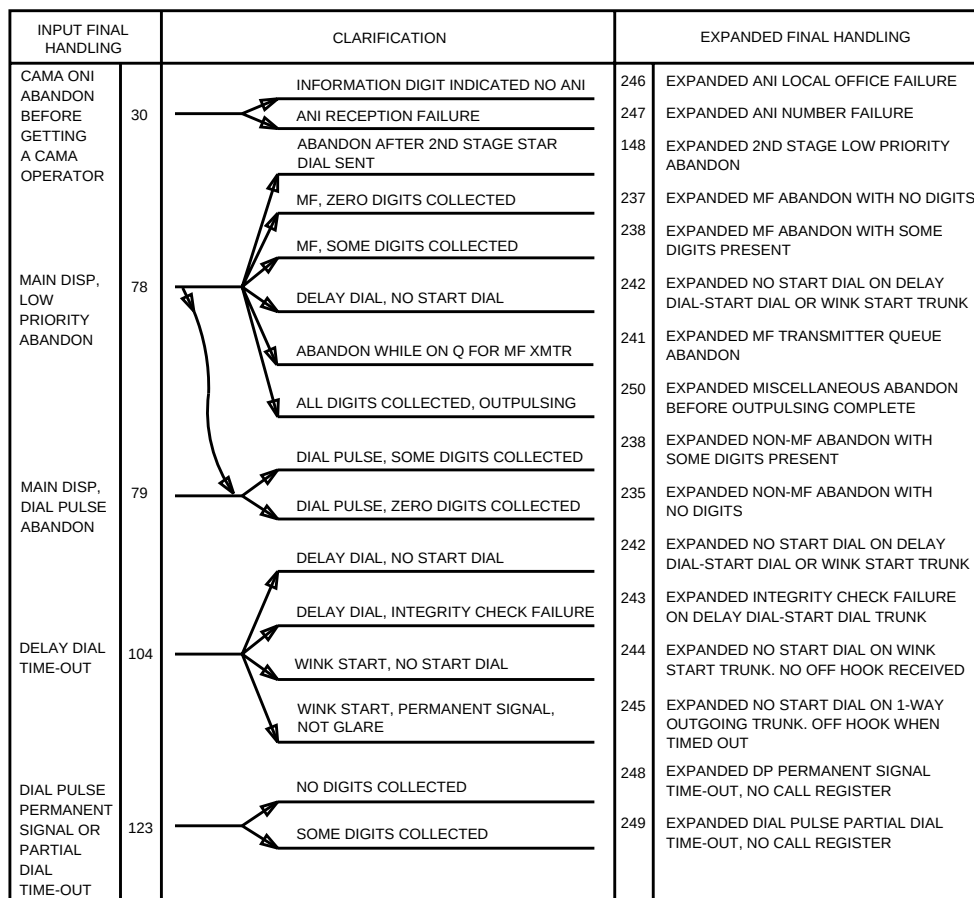


Figure 2-1. Input Final Handling Code to Expanded Final Handling Code Map

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Final Handling Code 0: Invalid final handling code.

- (a) **Ineffective Attempt Type:** Not applicable
- (b) **Trunk Type:** Not applicable
- (c) **Description:** This final handling code indicates that a software error has been detected. Contact the 4ESS Switch Electronic Systems Assistance Center (ESAC) when this final handling code occurs.

Final Handling Code 1: Call blocked by network management billing number gap control

- (a) **Ineffective Attempt Type:** Manual Network Management (MNW)
- (b) **Trunk Type:** DFLT
- (c) **Description:** None

Final Handling Code 6: Network Management cancel due to DOCTOR.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** Any incoming trunk
- (c) **Description:** The network management Dynamic Overload Control Time-Out Release (DOCTOR) control was active during call setup stage. The incoming call was canceled and the incoming trunk was given no circuit treatment.

Final Handling Code 7: No translations exist in Global Title Translations (GTT) database for NPA in Signaling Connection Control Part (SCCP) header.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** ALL
- (c) **Description:** A query TCAP begin message was attempted to be sent to the NCP. There were no translations in the 3-digit GTT database for the NPA of the ANI. The 4ESS switch routed and recorded the call without Positive Call Processing (PCP) features.

Final Handling Code 9: Reroute in effect with “Allow In-Chain” option set—no idle capacity on VIA TSG.

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:** Any incoming trunk
- (c) **Description:** This condition occurs after acquiring an incoming trunk and during trunk hunt for VIA TSGs with idle capacity. No idle capacity was found in VIA TSGs when trying to perform a manual reroute with “Allow In-Chain” option set. The call is canceled and National Trunk Congestion (NTC) is sent on the incoming trunk.

Final Handling Code 10: No idle trunk at via office to offer traffic—traveling class mark indicated first link out-of-chain.

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:** Any incoming trunk
- (c) **Description:** This condition occurs only at the via office on a per-TSG basis. It prevents a round-robin situation during routing of traffic. The Cancel Rerouted Overflow (CRO) was placed on this VIA TSG. Calls are canceled that cannot locate an idle trunk in this TSG. The NTC is sent on the incoming trunk.

Final Handling Code 11: CAMA Automatic Number Identification (ANI) failure, information digit indicates no digits coming.

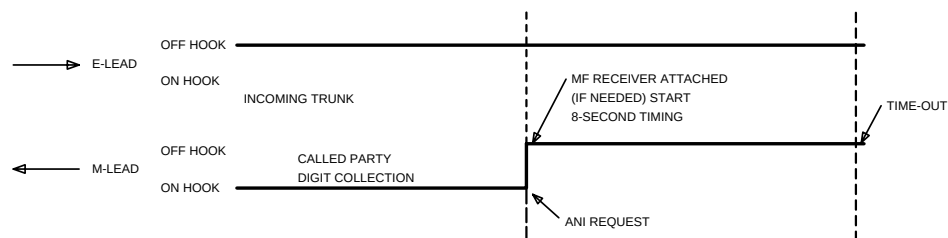
- (a) **Ineffective Attempt Type:** ANI Office Failure (AIF)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** On an incoming DP or MF CAMA call, the digit reception (DIRE) program has received the information digit and passed control to the CAMA program. The information digit is 2 or 5. The 4ESS Switch idles the multifrequency receiver and sends the call to an operator for handling.

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Final Handling Code 12: CAMA Automatic Number Identification (ANI), information digit time-out.

(a) **Ineffective Attempt Type:** ANI Office Failure (AOF)

(b) **Timing Requirements:**



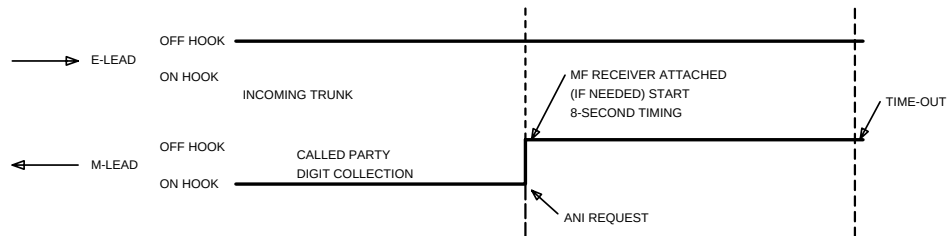
(c) **Trunk Type:** MF, DP

(d) **Description:** On an incoming DP or MF CAMA call, the digit reception (DIRE) program receives the called party digits and waits for the information digit. If the incoming trunk is MF, a request for ANI is sent. If the incoming trunk is DP, a multifrequency receiver is attached and a request for ANI is sent. The timing interval is 8 seconds; then the multifrequency receiver is idled, and the call is sent to an operator for handling.

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Final Handling Code 13: CAMA Automatic Number Identification (ANI), digit collection time-out, multifrequency receiver to trunk maintenance.

- (a) **Effective Attempt Type:** Automatic Number Identification Failure (ANF)
- (b) **Timing Requirements:**

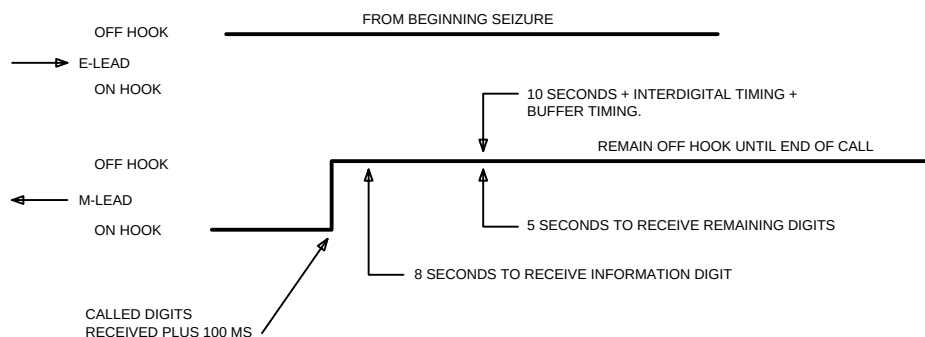


- (c) **Trunk Type:** MF, DP
- (d) **Description:** On an incoming DP or MF CAMA call, the called party digits are received, request for ANI is sent, and the information digit 0 or 3 is received. Five-second timing is started and awaits the rest of the calling party digits. The timer times out without receipt of the digits. The call is routed to an operator for handling. If the CPDIG field contains seven apparently valid digits, this means that the start pulse was not received before the time-out.

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Final Handling Code 14: CAMA ANI (Automatic Number Identification) invalid digit, MF receiver to trunk maintenance.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER). This failure is reported as PER in the trap message but it is counted as an ANF in a counting trap and all associated reports.
- (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP

- (d) **Related Final Handling Codes:**

- 38 — CAMA operator number identification (ONI) digit error
- 39 — CAMA ONI illegal digit
- 46 — Not enough digits for further translation
- 47 — Too many digits for further translation
- 76 — Main dispenser MF digit error
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 154 — Digit reception, less than two MF digits
- 156 — Digit reception, received exactly two MF digits
- 160 — Digit reception, illegal MF digit
- 224 — Trunk maintenance operational test — invalid digit count

- 226 — Trunk Maintenance operational test — invalid digit test line
 - 227 — Trunk Maintenance operational test — outgoing trunk.
- (e) **Description:** After collecting the called party digits, the 4ESS Switch returns a steady off-hook to the local office as a signal to output the ANI digits. The typical ANI format is KP + 0 + 7 digits + ST; 0 is information digit. Any of several different errors in the reception of these digits may produce this trap message. The "CPDIG" field might appear as follows (X = any digit 2 through 9; Y = 0 through 9):
- X-----; or XY-----; or XYY-----, etc. This indicates that a start pulse was received after one, two, or three digits. The received format was KP + 0 + X + ST; or KP + 0 + XY + ST; or KP + 0 + XYY + ST, etc. Notice that XYYY--- is indistinguishable from situation described in (3).
 - -----. This indicates that one of the first four calling party digits or the information digit but not the KP was mutilated, or that a start pulse was received after the fourth digit.
 - XYYY---. This indicates that any of the remaining three digits or the start pulse was mutilated.
 - XYYYYYYY. If the digits appear as a valid combination for the incoming TSG involved, this format can only mean that an eighth and/or ninth and/or tenth, so forth and so on, was also received prior to the start pulse.

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Final Handling Code 15: Call failed due to network management Selective Incoming Load Control (SILC) control.

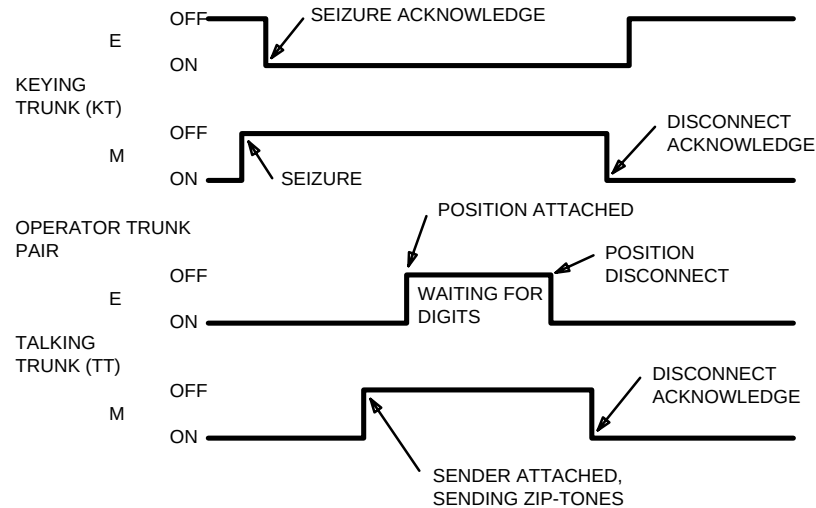
- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF
- (c) **Description:** On an incoming MF call, an incoming seizure is received, and the incoming seizure count is pegged. Network management selective incoming load control controlled the call. The 4ESS Switch places the trunk on the high and wet (HAW) list for maintenance.

Final Handling Code 16: CAMA unauthorized for operator number identification (ONI).

- (a) **Ineffective Attempt Type:** Unauthorized CAMA (UCA)
- (b) **Trunk Type:** MF, DP
- (c) **Related Final Handling Code:**
 - 26 — CAMA unauthorized automatic number identification (ANI).
- (d) **Description:** On an incoming ONI MF or DP CAMA call, the 4ESS Switch receives the calling party digits. The 4ESS Switch also called the local call intercept (LCI) program to determine if the digits dialed are authorized, that is, not an operator code, and others. Local call intercept (LCI) determined that the number(s) is unauthorized. The calling customer is connected to a vacant code (VAC). The calling party digits are included in the trap report.

Final Handling Code 17: CAMA position disconnect.

- (a) **Ineffective Attempt Type: CAMA Position Error (CPE)**
- (b) **Timing Requirements:**



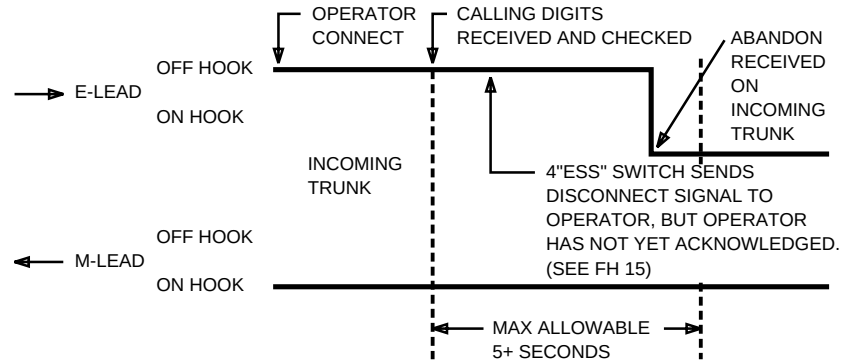
- (c) **Trunk Type: MF**
- (d) **Description:** On a keying-talking pair, the 4ESS Switch sent order tones and is awaiting the calling party digits. The E-lead of the talking trunk has gone back on-hook, indicating a release from the operator. The 4ESS Switch sends disconnect acknowledge to the operator and applies a reorder announcement to the customer, if the incoming trunk is still off-hook. The TSPS can cause this action automatically to indicate that their operator queue is full. Any CAMA operator can cause this through manual action.

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Final Handling Code 18: CAMA abandon before or during position disconnect.

(a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)

(b) **Timing Requirements:**



tpa 611445/01

(c) **Trunk Type:** MF, DP

(d) **Related Final Handling Codes:**

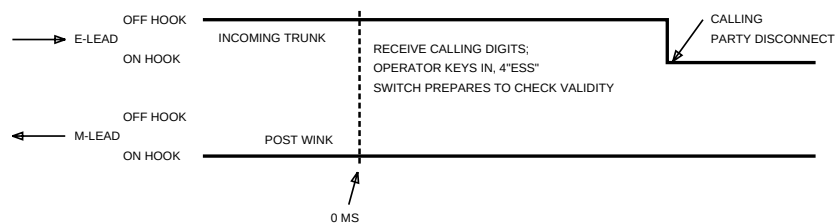
- 19 — CAMA abandon, seven digits
- 24 — CAMA ANI abandon
- 30 — CAMA ONI abandon before getting a CAMA operator
- 32 — CAMA abandon on CAMA operator queue (no zip-tone)
- 178 — Incoming trunk reset band nonstable
- 180 — Reset received nonstable
- 250 — Expanded miscellaneous abandon.

(e) **Description:** If the calling party hangs up or the E-lead of this incoming trunk goes on-hook for any reason during the connection to the CAMA portion of the program, MAB is pegged. This particular abandon can occur **after** calling party digits are checked for validity but **before** the operator hits the position disconnect key. As far as the 4ESS Switch is concerned, everything is going along fine. (See Final Handling Code 19.) The incoming trunk and operator trunk are set to idle, and the incoming trunk receives error analysis.

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Final Handling Code 19: CAMA abandon, operator keyed in seven digits.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
 (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP
 (d) **Related Final Handling Codes:**
- 18 — CAMA abandon, operator disconnect
 - 24 — CAMA ANI abandon
 - 30 — CAMA ONI abandon
 - 32 — CAMA abandon on CAMA operator queue (no zip-tone)
 - 178 — Incoming trunk reset band nonstable
 - 180 — Reset received nonstable
 - 250 — Expanded miscellaneous abandon.

- (e) **Description:** If the calling party hangs up or the E-lead of the incoming trunk goes on-hook for any reason during the connection to the CAMA portion of the program, MAB is pegged. This particular abandon can occur **after** the operator keys in seven digits but **before** the 4ESS Switch decides if they are valid digits. As far as the 4ESS Switch is concerned, everything is going along fine. (See Final Handling Code 18.) The incoming trunk and operator trunks are set to idle and the incoming trunk receives error analysis.

Final Handling Code 20: CAMA, abandon on dial pulse (DP) Automatic Number Identification (ANI) multifrequency receiver queue.

- (a) **Ineffective Attempt Type:** Multifrequency Receiver Queue Abandon (RQA)
- (b) **Trunk Type:** DP
- (c) **Description:** On an incoming DP ANI CAMA call, the 4ESS Switch has tried to attach a multifrequency receiver after receiving the called party digits. No multifrequency receiver is immediately available, so the call is queued for a receiver. While on the queue, an abandon reported on the E-lead of the incoming trunk. All equipment associated with the call is idled.

Final Handling Code 21: CAMA invalid calling area code or office code.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF
- (c) **Description:** The call is an automatic number identification CAMA call. The called number and calling number are requested and received. These numbers are stored in the AMA data block. The calling number is erased from the call register. The screening function which is completed after the called and calling numbers are stored in the stable call accumulation register (SCAR) returns an invalid called area code or office code. The 4ESS Switch connects a CAMA operator to the calling party and requests the called number using operator number identification equipment.

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Final Handling Code 22: CAMA, no second multifrequency receiver dial pulse automatic number identification connection failure.

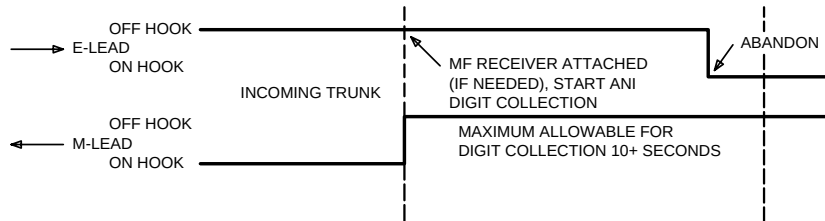
- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** DP
- (c) **Description:** On an incoming dial pulse automatic number identification CAMA call, the 4ESS Switch receives the called party digits and is tries to attach a multifrequency receiver to collect the calling party digits. A multifrequency receiver is found but the 4ESS Switch failed to make the connection. No second receiver is available. The customer is connected to a No-Circuit Announcement (NCAN).

Final Handling Code 23: CAMA, failed to connect a second multifrequency receiver; Dial Pulse (DP) Automatic Number Identification (ANI).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** DP
- (c) **Description:** On an incoming DP ANI CAMA call, the 4ESS Switch collects the called party digits and tries to connect a multifrequency receiver to collect the calling party digits. The 4ESS Switch finds and fails to connect to the first receiver; finds a second receiver and also fails to connect. The customer is then connected to a Reorder Announcement (ROA). This should be a very low runner case in the 4ESS Switch.

Final Handling Code 24: CAMA ANI abandon, connected to MF receiver.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
 (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP
 (d) **Related Final Handling Codes:**
- 18 — CAMA abandon, operator disconnect
 - 19 — CAMA abandon, seven digits
 - 30 — CAMA ONI abandon
 - 32 — CAMA abandon on CAMA operator queue (no zip-tone)
 - 178 — Incoming trunk reset band nonstable
 - 180 — Reset received nonstable
 - 250 — Expanded miscellaneous abandon.
- (e) **Description:** If the calling party hangs up or the E-lead of the incoming trunk goes on-hook for any reason during the connection to the CAMA portion of the program, MAB is pegged. This particular abandon can occur **any time** the incoming trunk is connected to an MF receiver for collecting calling party digits on the ANI portion of the call. The originating trunk may be DP or MF, but the failure during the ANI part of the call is **always** MF. The incoming trunk is set to idle and reported to error analysis. The MF receiver also receives error analysis.

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Final Handling Code 25: CAMA misdirected Automatic Number Identification (ANI).

- (a) **Ineffective Attempt Type:** Misrouted CAMA (MCA)
- (b) **Trunk Type:** MF, DP
- (c) **Related Final Handling Code:**
 - 33 — CAMA, misdirected Operator Number Identification (ONI).
- (d) **Description:** On an incoming DP or MF ANI CAMA call, the 4ESS Switch collects the calling and called party digits. The CAMA program calls the local call intercept (LCI) program to determine if the called and calling party digits are valid for this office. **Should the 4ESS Switch be handling this call** The LCI program has determined that this should not be a toll call. The customer is connected to Misrouted CAMA (MCA) announcement.

Final Handling Code 26: CAMA unauthorized Automatic Number Identification (ANI).

Ineffective (a)

- (b) **Trunk Type:** MF, DP
- (c) **Related Final Handling Code:**
 - 16 — CAMA unauthorized for operator number identification (ONI).
- (d) **Description:** On an incoming ANI MF or DP CAMA call, the 4ESS Switch receives the calling and called party digits. The CAMA program calls the local call intercept (LCI) program to determine if the called and calling party digits are valid for this office. **Should the 4ESS Switch be handling this call** The LCI program has determined that the number(s) is invalid for this office. The calling customer is connected to vacant code (VCA); the call is reported to the vacant code analysis program (VACANAL); and the calling party digits are included in the trap report.

Final Handling Code 27: CAMA Operator Queue Full.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** On an incoming DP or MF operator number identification (ONI) or automatic number identification (ANI) failure CAMA call, the 4ESS Switch tries to connect the incoming trunk to an operator, but no idle operator trunks are available. The 4ESS Switch then tries to place the call on the CAMA operator queue, but the queue is full. The customer is connected to a no-circuit announcement (NCAN).

Final Handling Code 28: CAMA operator keyed in trouble number.

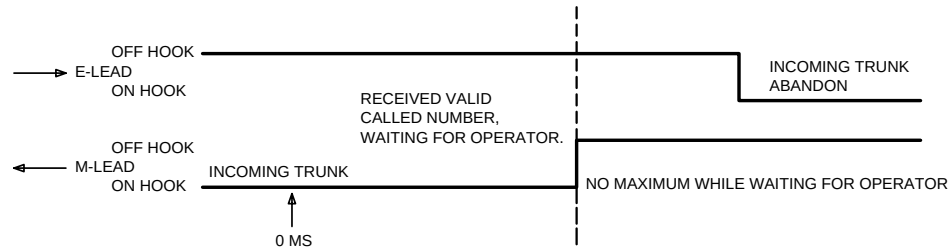
- (a) **Ineffective Attempt Type:** CAMA Operator Trunk Trouble Report (CTR)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** On an incoming DP or MF CAMA call that is routed to an operator, the operator is unable to get the calling party digits and keys in a 7-digit trouble number. The number is recognized by the CAMA program and the call is killed. The numbers are stored at OD4COPTBLN. The 4ESS Switch recognizes four different codes as trouble numbers. The number 999 is the accepted standard. The customer is connected to Reorder Announcement (ROA), and the incoming trunk is reported to trunk error analysis (TERA).

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Final Handling Code 30: CAMA operator number identification (ONI) abandon before getting a CAMA operator.

(a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF, DP

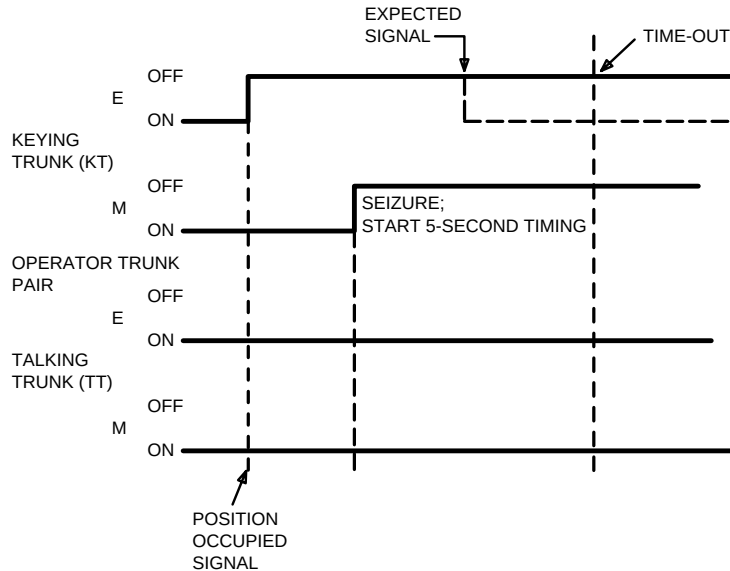
(d) **Related Final Handling Codes:**

- 18 — CAMA abandon, operator disconnect
- 19 — CAMA abandon, seven digits
- 24 — CAMA ANI abandon
- 32 — CAMA abandon on CAMA operator queue (no zip-tone)
- 178 — Incoming trunk reset band nonstable
- 180 — Reset received, nonstable
- 250 — Expanded miscellaneous abandon.

(e) **Description:** If the calling party hangs up or the E-lead goes on-hook for any reason during the connection to the CAMA portion of the program, MAB is pegged. This particular abandon can occur on a trunk which is in the process of waiting for an operator to answer, either after an ANI failure or on an ONI call. (See Final Handling Code 32.)

Final Handling Code 31: CAMA operator failed to acknowledge seizure.

- (a) **Ineffective Attempt Type:** CAMA Position Seizure Time-out (CST)
 (b) **Timing Requirements:**



- (c) **Related Final Handling Code:**

■ 37 — Time-out, no TSPS operator position attached received.

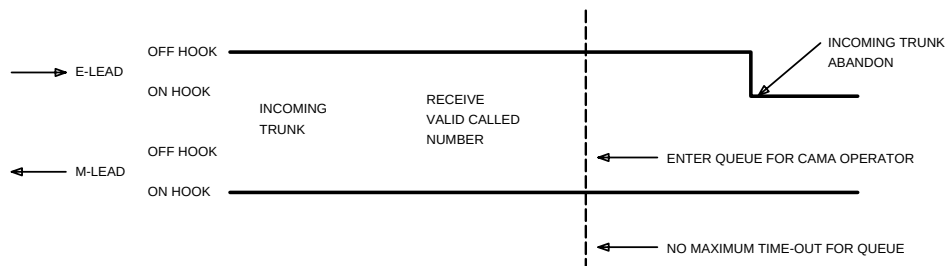
- (d) **Description:** When a CAMA talking/keying pair is unoccupied, both trunks are on-hook in both directions. Position occupied is an off-hook on the E-lead of the keying trunk (KT). The 4ESS Switch attaches an MF receiver to the KT. Seizure is an off-hook on the M-lead of the KT. The 4ESS Switch initiates 5-second timing. Seizure acknowledgment is an on-hook on the E-lead of the KT. If this signal is not received, the CAMA trunk connects to reorder announcement and the KT/talking trunk (TT) pair is reported to trunk maintenance.

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Final Handling Code 32: CAMA abandon on CAMA operator queue (no zip-tone).

(a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)

(b) **Timing Requirements:**



(c) **Related Final Handling Codes:**

- 18 — CAMA abandon, operator disconnect
- 19 — CAMA abandon, seven digits
- 24 — CAMA ANI abandon
- 30 — CAMA ONI abandon before getting a CAMA operator
- 178 — Incoming trunk reset band, nonstable
- 180 — Reset received, nonstable
- 250 — Expanded miscellaneous abandon.

(d) **Description:** If the calling party hangs up or the E-lead of the incoming trunk goes on-hook, for any reason, during the connection to the CAMA portion of the program, MAB is pegged. This particular abandon can occur on a trunk which is on queue (no zip-tone) for a CAMA operator because no idle trunks are available.

Final Handling Code 33: CAMA misdirected operator number identification (ONI).

- (a) **Ineffective Attempt Type:** Misrouted CAMA (MCA)
- (b) **Trunk Type:** MF, DP
- (c) **Related Final Handling Code:**
 - 25 — CAMA misdirected automatic number identification (ANI).
- (d) **Description:** On an incoming DP or MF ONI CAMA call, the 4ESS Switch collects the calling and called party digits. The CAMA program calls the local call intercept (LCI) program to determine if the called and calling party digits are valid for this office. **Should the 4ESS Switch be handling this call** The LCI has determined that this should not be a toll call. The customer is connected to misrouted CAMA (MCA) announcement.

Final Handling Code 34: CAMA operator completed call after ANI (automatic number identification) office failure.

- (a) **Ineffective Attempt Type:** ANI office failure (AIF)
- (b) **Trunk Type:** MF, DP
- (c) **Related Final Handling Codes:**
 - 11 — Trap index MSC, information digit equals no maintenance.
 - 12 — ANI Local Office Failure (NOF)
 - 246 — Expanded ANI failure on same call as the CAMA operator failure.
- (d) **Description:** When an AIF or automatic office failure (AOF) occurs, the call is routed to a CAMA operator and an AIF or AOF count is pegged. If the trap is set, an AIF report, with the calling party digits, is printed (with Final Handling Code 34) after the operator has completed the keying. This AIF is not counted. This Final Handling Code (34) message is preceded by an AIF (Final Handling Code 11) or AOF (Final Handling Code 12) occurrence.

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Final Handling Code 35: CAMA completed call automatic number identification failure (ANF) trunk maintenance.

- (a) **Ineffective Attempt Type:** Automatic number identification failure (ANF)
- (b) **Trunk Type:** MF, DP
- (c) **Related Final Handling Codes:**
 - 34 — CAMA operator completed the call after ANI office failure.
 - 247 — Expanded ANF which occurred on the same call as the current operator failure.
- (d) **Description:** When an ANF failure or pulsing error (PER) failure occurs on the ANI digits, the call is sent to an operator and an ANF (Final Handling Code 13) or PER (Final Handling Code 14) is pegged. If a trap is set, an ANF or PER is printed on the trap report with the good calling party digits. This can be matched with the previous trap index ANF (Final Handling Code 13) or PER (Final Handling Code 14) report which is printed when the ANF or PER failure occurs. An ANF occurs if the information digit is either 0 or 3, indicating that the calling party number follows. If the calling digits are not forthcoming or if the number received is other than seven valid digits, ANF is pegged. A PER (Final Handling Code 14) occurs if any of the ANI digit MF tones are mutilated. The call is handled just like an operator number identification (ONI) call.

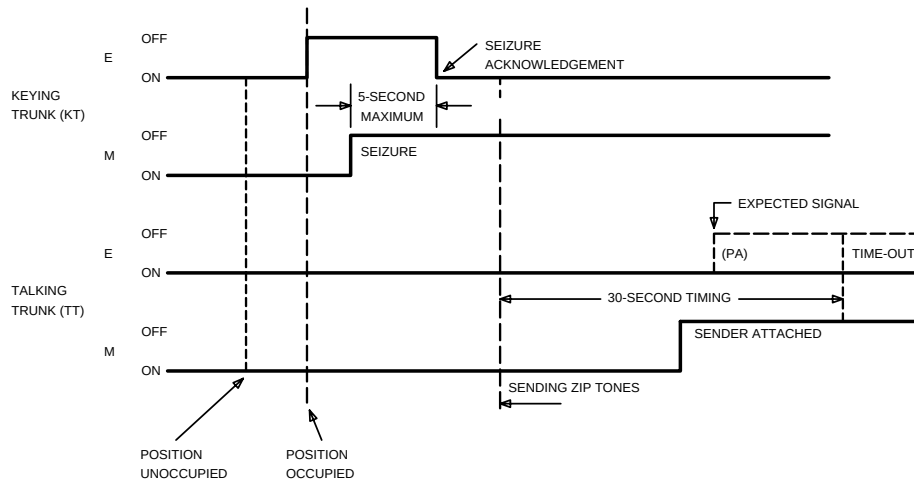
Final Handling Code 36: CAMA operator number identification (ONI), failed to connect incoming trunk — talking trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** On an incoming MF or DP CAMA call that is being routed to an operator, the 4ESS Switch finds an idle keying trunk-talking trunk pair and tries to reserve a network path between the incoming trunk and the talking trunk. The 4ESS Switch fails to make the reservation. The customer is connected to a no-circuit announcement (NCAN).

Final Handling Code 37: Time-out, no TSPS (traffic service position system) operator position attached received.

(a) **Ineffective Attempt Type:** CAMA Position Seizure Time-out (CST)

(b) **Timing Requirements:**



(c) **Related Final Handling Code:**

- 31 — CAMA operator failed to acknowledge seizure.

(d) **Description:** When a CAMA talking/keying pair is unoccupied, both trunks are on-hook in both directions. The position occupied is represented by an off-hook on the keying trunk (KT). The 4ESS Switch attaches an MF receiver to the trunk. Seizure is off-hook on the M-lead of the KT. The 4ESS Switch then initiates 5-second timing. Seizure acknowledgment is on-hook on the E-lead of the KT. The 4ESS Switch sends zip-tones (480 Hz): two tones for a regular operator number identification (ONI) call, and one tone for a failed (ANI) automatic number identification call. After zip-tones, the 4ESS Switch sends off-hook on the M-lead of the talking trunk (TT). The position attached (PA) 30-second timing starts, and the customer is connected to audible ringing after 2 seconds. The position attached (PA) is off-hook on E-lead of the TT. If this signal is not received, the call is sent to final handling,

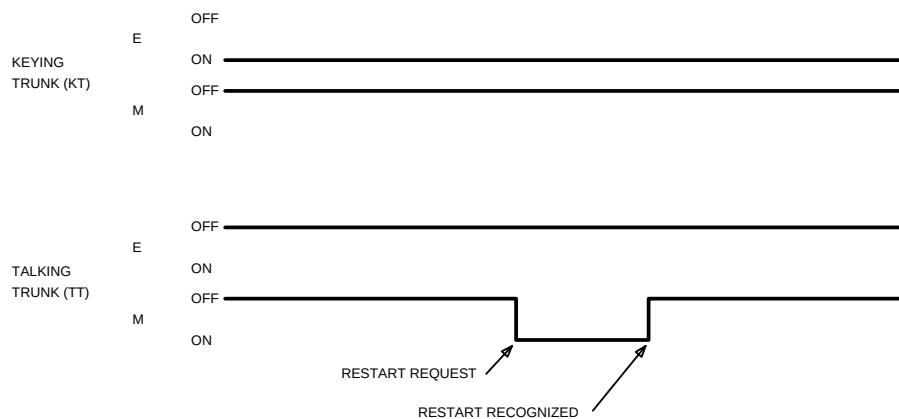
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and the customer is attached to reorder. The TSPS trunk is reported to trunk error analysis, and an office count of CAMA position time-out is pegged.

Final Handling Code 38: CAMA ONI (operator number identification) digit error, implicate receiver.

(a) **Ineffective Attempt Type:** Pulsing Error (PER)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF

(d) **Related Final Handling Codes:**

- 14 — CAMA ANI invalid digit
- 39 — CAMA ONI illegal digit
- 46 — Not enough digits for further translation
- 47 — Too many digits for further translation
- 76 — Main dispenser MF digit error
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit

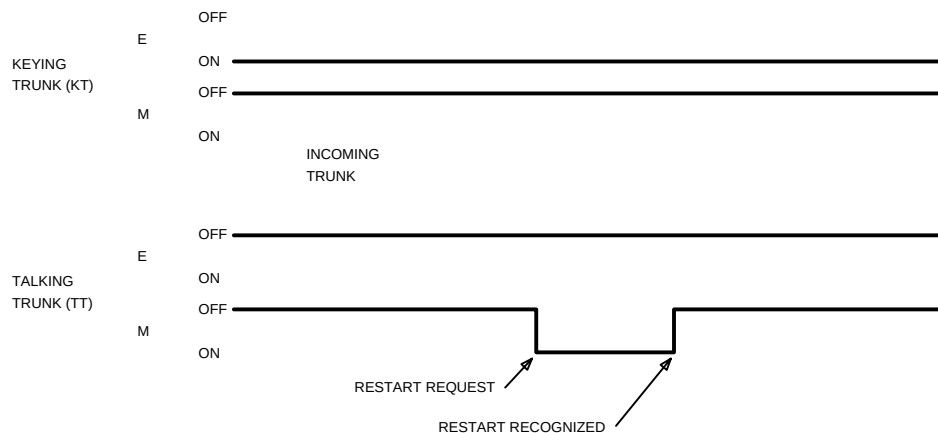
- 154 — Digit reception, less than two MF digits
 - 156 — Digit reception, received exactly two MF digits
 - 160 — Digit reception, illegal MF digit
 - 224 — Trunk maintenance operational test—invalid digit count
 - 226 — Trunk maintenance operational test—invalid digit, test line
 - 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.
- (e) **Description:** If while the operator is keying in the calling digits, the 4ESS Switch recognizes an illegal digit — something other than valid 2-out-of-5 MF tones — the 4ESS Switch goes on-hook on the M-lead of the talking trunk (TT). The operator sees a flash at the position and keys in a restart digit. **Restart is MF digit 11 (700+1700 Hz).** The 4ESS Switch then goes back off-hook on the M-lead. The operator then keys in the entire number again. There is no time-out interval. The restart sequence can be repeated for 6 minutes. The operator trunk and the MF receiver are reported to error analysis. After the call is disposed, the 4ESS Switch attaches a different MF receiver to the operator trunk. This condition is usually called “mutilated digit.”

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Final Handling Code 39: CAMA ONI (operator number identification) illegal digit, implicate receiver.

(a) **Ineffective Attempt Type:** Pulsing Error (PER)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF

(d) **Related Final Handling Codes:**

- 14 — CAMA ANI invalid digit
- 38 — CAMA ONI digit error
- 46 — Not enough digits for further translation
- 47 — Too many digits for further translation
- 76 — Main dispenser MF digit error
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 154 — Digit reception, less than two MF digits
- 156 — Digit reception, received exactly two MF digits
- 160 — Digit reception, illegal MF digit
- 224 — Trunk maintenance operational test—invalid digit count

- 226 — Trunk maintenance operational test—invalid digit, test line
 - 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.
- (e) **Description:** If while the operator is keying in the calling party digits, the digit reception (DIRE) program recognizes an illegal digit [ST (start), KP (key pulse), 11, 12]; the 4ESS Switch goes on-hook on the M-lead of the talking trunk (TT). The operator sees a flash at the position and keys in a restart digit. [Restart is MF digit 11 (700+1700 Hz).] The 4ESS Switch then goes back off-hook on the M-lead. The operator then keys in the entire calling party number again. There is no time-out interval. The restart sequence can be repeated for 6 minutes. The operator trunk and the MF receiver are reported to error analysis. After the call is disposed, the 4ESS Switch attaches a different MF receiver to the operator trunk.

Final Handling Code 40: ANI failure on Carrier Identified CAMA Record (CICR) call.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** This condition occurs on a CAMA ANI TSG in a non-POTs domain. An ANI failure occurs and reported by automatic number identification failure. Non-POTs CAMA failures are not allowed to connect to the operator. The caller is connected to the Reorder Announcement (ROA).

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Final Handling Code 41: Multiparty line on Carrier Identified CAMA Record (CICR) call is not allowed.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** This condition is restricted to 4E8 and later generics, and in a non-POTs domain, CAMA ANI TSG. System receives ANI information digit indicating a multiparty line, but carrier identified CAMA record (CICR) calls cannot be multiparty lines because CAMA operator is not permitted for CICR calls. The 4ESS Switch connects trunk to 120 interruptions per minute (IPM) busy signal.

Final Handling Code 42: Call blocked by LATA/STATE screening.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits are received and digit translations started. The call was blocked by LATA/STATE screening—associated with ISDN call-by-call services. Screening is set up by ODA 406U form. The incoming trunk is given final handling treatment; the caller is given the announcement treatment specified in “LSFHT” item in HT4 service translator—populated by ODA Form 406V; the call register is idled.

Final Handling Code 43: Digit translation failed during LATA/STATE screening - not enough digits.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits were received and digit translations started. Not enough digits were received to determine outgoing LATA/STATE index - required for LATA/STATE screening (ISDN call-by-call services). The call was misdialed or LATA/STATE screening translation data is in error. The incoming trunk is given final handling treatment, and the caller is given the announcement specified in “HT4 service” translator (item “LSFHT” - ODA Form 406V). The call register is idled.

Final Handling Code 44: Too many manually assigned subsequent digit index call-type words were found — domestic translation.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits is received and digit translations started in the domestic (3-digit) translator. The maximum number of manually assigned subsequent digit index call-type words, current limit is 8, is exceeded for this code grouping (set of digits). Invalid routing translation data is indicated. The incoming trunk is given final handling treatment, and the caller is given VCA. The call register is idled.

Final Handling Code 45: Manually assigned subsequent digit index call-type words found; however, the index specified is out of range — domestic translation.

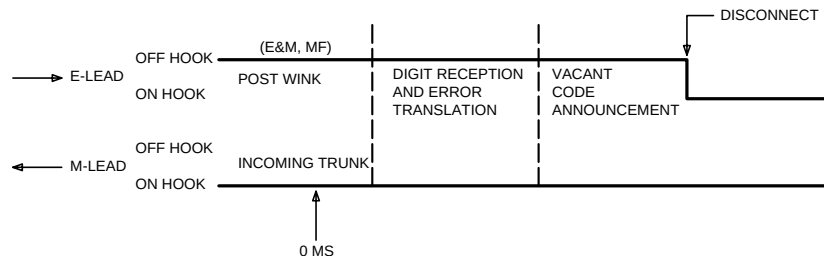
- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits were received and digit translations started in the domestic (3-digit) translator. A manually assigned subsequent digit index, found for this code grouping, is out of range. The index size exceeds the size of the code grouping block and translations cannot continue. An error in translations routing data is indicated. The incoming trunk is given final handling treatment, and the caller is given VCA. The call register is idled.

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Final Handling Code 46: Not enough digits for further translation.

(a) **Ineffective Attempt Type:** Pulsing Error (PER)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF, CCIS

(d) **Related Final Handling Codes:**

- 14 — CAMA ANI invalid digit
- 38 — CAMA ONI digit error
- 39 — CAMA ONI illegal digit
- 47 — Too many digits for further translation
- 76 — Main dispenser MF digit error
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 154 — Digit reception, less than two MF digits
- 156 — Digit reception, received exactly two MF digits
- 160 — Digit reception, illegal MF digit
- 224 — Trunk maintenance operational test—invalid digit count
- 226 — Trunk maintenance operational test—invalid digit, test line
- 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.

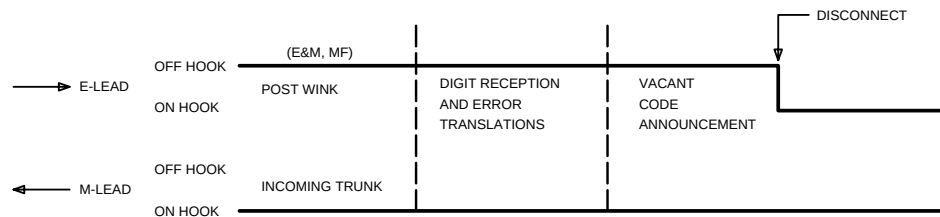
(e) **Description:** There are three final handling codes which represent possible pulsing errors as a result of digit count: 46, 47, and 152. Final Handling Code 152 fails after translations are completed. Final Handling Code 46 occurs when some, but not enough, valid digits are received on an MF or CCIS trunk. If, on a call, a start (ST) signal is received after

three or more digits, the 4ESS Switch attempts to translate the digits to pick an outgoing trunk. If the first three digits point to a subsequent digit translator but there are not enough digits to complete the translation, the call is connected to vacant code announcement (VCA). For example, if the 4 ESS Switch receives a valid number plan area (NPA) plus an ST signal, the NPA translator points to the next 3-digit translator. Since there are no more digits available, the call is killed. This condition can only happen on MF and CCIS trunks. On MF trunks, the call receives VCA. On CCIS, an address incomplete (ADI) message is returned. A similar condition of DP trunks results in a partial dial time-out (PDT). See Final Handling Code 155.

Final Handling Code 47: Too many digits for further translation.

(a) **Ineffective Attempt Type:** Pulsing Error (PER)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF, CCIS

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(d) **Related Final Handling Codes:**

- 14 — CAMA ANI invalid digit
- 38 — CAMA ONI digit error
- 39 — CAMA ONI illegal digit
- 46 — Not enough digits for further translation
- 76 — Main dispenser MF digit error
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 154 — Digit reception, less than two MF digits
- 156 — Digit reception, received exactly two MF digits
- 160 — Digit reception, illegal MF digit
- 224 — Trunk maintenance operational test—invalid digit count
- 226 — Trunk maintenance operational test—invalid digit, test line
- 227 — Trunk maintenance operational test—outgoing trunk,
trunk scanner number not found in routing data block.

- (e) **Description:** There are three final handling codes which represent possible pulsing errors as a result of digit count: 46, 47, and 152. Final Handling Code 152 fails after translations are completed. Final Handling Code 47 occurs when the maximum allowable digit count of 14 is exceeded. If the 4ESS Switch finds during translations that more than 14 digits have been received, the call is killed. On MF trunks, the vacant code (VCA) is returned. On CCIS trunks, an address incomplete (ADI) is returned.

Final Handling Code 48: Call blocked by route selection index screening — domestic translation.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits were received and digit translations started in the domestic (3-digit) translator. The call is blocked by the route selection index screening which is manually set up by ODA Form 406V. The incoming trunk is given final handling treatment and the caller is given an announcement specified by "RSFHT" item in HT4SERVICE translator. Populated by ODA Form 406V. The call register is idled.

Final Handling Code 49: Invalid type of call-type word found during digit translations — domestic translation.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits were received and digit translations started in the domestic (3-digit) translator. Digit translation found an assigned type of call-type word at a point in the digit translation process where that type of call-type word is not allowed, call processing rules, and digit translation cannot be completed. The incoming trunk is given final handling treatment, and the caller is given VCA announcement. The call register is idled.

⇒ NOTE:

At the point of this failure, there is no outgoing trunk. The outgoing state vector (SVOGT) output, in the ineffective attempt office (IAOFC) trap dump, is used to supply additional information.

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THE SVOGT INDICATES WHERE IN TRANSLATIONS THE
INVALID TYPE OF CALL-TYPE WORD WAS FOUND.

IF SVOGT IS -----> THEN

- 1 - FOUND IN LATA/STATE SCREENING. DOMAIN IS LSI
- 2 - FOUND IN 3-DIGIT TRANSLATOR, AFTER TRANSLATING FIRST
THREE DIGITS
- 3 - FOUND IN CODEGROUPING TRANSLATOR, AFTER
TRANSLATING FOUR OR MORE DIGITS
- 4 - NOT USED
- 5 - FOUND IN ALL-DIGIT TRANSLATOR
- 6 - NO RDB CALL TYPE FOUND

Final Handling Code 50: Illegal digits encountered

- (a) **Ineffective Attempt Type:** Mass Recorded Announcement (MRA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** Illegal digits are encountered, and the call is killed with out
of band (OOB) override.

Final Handling Code 57: CCIS outgoing trunk in special outgoing setup state
— received reset after acceptable digit count (ADC) received.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** There is a special outgoing trunk setup state where an
ADC is received, and an answer is received. However, receipt of a
reset indicates an abnormal condition. The 4ESS Switch sends a clear-
forward signal.

Final Handling Code 61: INWATS non-routable code, digit translations found INWATS call type and not originating screening office (OSO) or database returned 800 code.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** On an incoming MF, DP or CCIS call setup, incoming seizure is recognized and call register seized; ODA data indicated INWATS call-type word. The 4ESS Switch returned a vacant code announcement for MF and DP, and a vacant national number for CCIS.

Final Handling Code 62: Vacant Code Digit Translation.

- (a) **Ineffective Attempt Type:** Vacant Code Announcement (VCA)
- (b) **Trunk Type:** Any
- (c) **Description:** The code received was translated and found vacant. The code is scored against the incoming trunk type and is used to identify where the VCA peg originated.

Final Handling Code 63: No trunk found by trunk hunt.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** DP, MF, CCIS
- (c) **Description:** After receiving the digits on the incoming trunk and translating to an in-chain routing data block, the 4ESS Switch attempts to find an idle trunk in each of the listed trunk subgroups in order. If no idle trunk is available, the 4ESS Switch returns to the routing data block (RDB) to determine final handling treatment (FHT). If the FHT is NCA, the 4ESS Switch pegs no-circuit intertoll (NCIT) or no-circuit-toll connect (NCTC) and returns the proper announcement. If the incoming trunk is CCIS, a NTC message is returned. The originating CCIS office records an NTC received count and an ineffective network attempt (INA) count, but no ineffective machine attempt (IMA) count. If the FHT is busy tone (BT) [(60 IPM], the failing office returns address complete (ADC), attaches its own busy tone, and subtracts the NC count in the network management program.

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Final Handling Code 64: Transit call arrives at the 4E (ISC) in an invalid domain

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This condition only occurs on incoming transit calls. A transit call is received at the 4ESS Switch in an invalid domain. The call is final handled.

Final Handling Code 65: Trunk hunt failed to find an idle Single-Trunk Customer (STC) trunk.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** The code grouping treatment is customer routing. The outgoing trunk hunt is started. No idle trunk is found in the Customer's Routing Block (CRB). The incoming trunk and customer routing are passed to final handling, and the incoming trunk is given busy-tone treatment.

Final Handling Code 66: Invalid subsequent digit index (translation) sequence - domestic translation

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits are received and digit translations are started in the domestic (3-digit) translator. After translating a manually assigned subsequent digit index, an automatic subsequent digit index, specifying translate more digits, was found. This is an invalid translation sequence which indicates an error in routing translation data; therefore, the translation cannot be completed. The incoming trunk is given final handling treatment, and the caller is given VCA. The call register is idled.

Final Handling Code 67: Optional parameters UUI in ISUP message were dropped due to length limitations.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP message (IAM, ACM, ANM, CPG, REL) is received or is being built with user-to-user information (UUI). The UUI has to be dropped due to an UUI length violation—greater than 129 bytes on a message being received.

Final Handling Code 68: Optional parameter ATP in ISUP message was dropped due to length restrictions.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP message (IAM, ACM, ANM, CPG, REL) is received or is being built with the access transport parameter (ATP). The ATP has to be dropped due to an ATP length violation—greater than 129 bytes on a message being received.

Final Handling Code 69: Call state mismatch on Q.931 incoming trunk/post-setup.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931. A Q.931 status message is received on an incoming trunk in a post call setup state which indicates a mismatch between the near end and far end of the trunk. A disconnect message with the cause unknown is sent.

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Final Handling Code 70: Call state mismatch on the Q.931 incoming trunk in a setup state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931. A Q.931 status message is received on an incoming trunk in the call setup state which indicates a call state mismatch between the near end and the far end. A disconnect message is returned with the cause unknown.

Final Handling Code 71: Call state mismatch on Q.931 outgoing trunk in a post setup state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931. A Q.931 status message is received on an outgoing trunk in a post call setup state which indicates a call state mismatch at the near end and the far end. A disconnect message is sent.

Final Handling Code 72: Call state mismatch on a Q.931 outgoing trunk in a call setup state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931. A Q.931 status message received on an outgoing trunk in a call setup state indicates a call state mismatch at the near end and the far end. A disconnect message is returned.

Final Handling Code 73: An invalid facility message format is received while the call is in the active state; the facility message contained both a network-specific facilities information element (IE) and a codeset 6 facility IE.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A facility message is received while the call is in the active state. In the facility message, both a network-specific facilities information element and a codeset 6 facility information element is found. A status message is sent with a cause of "invalid information element contents." Call was finaled.

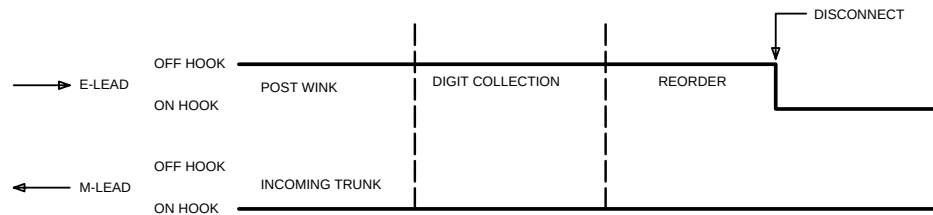
Final Handling Code 75: Dial pulse (DP) incoming worklist full.

- (a) **Ineffective Attempt Type:** DP Worklist Full (DWF)
- (b) **Trunk Type:** DP
- (c) **Description:** When an off-hook is received on a DP trunk, a delay dial-start dial or wink signal is returned, if required, to the calling office. Before scan and digit reception, the T-bits of the trunk is checked. T3T2=10 specifies collect dial-pulse digits. The signal processor then attempts to find an idle slot in the incoming DP worklist for this trunk. If an idle slot is not available when the first on-hook is received—dial pulse or an abandon—the worklist full flag is set. The worklist full flag may have already been set. Setting the worklist full flag results in a **worklist full report** to central control and a scoring of Final Handling Code 75. Succeeding calls, encountering DP worklist full while the flag is set, get high-and-dry treatment. Therefore, there is no way to count the trunks that encounter DP worklist full. The worklist full flag is reset by central control when a slot in the DP worklist becomes idle. This problem cannot occur on trunks terminating on a digital interface frame (DIF); the DIF frame does not use a common worklist.

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Final Handling Code 76: Main dispenser MF digit error.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
 (b) **Timing Requirements:**



- (c) **Trunk Type:** MF

- (d) **Related Final Handling Codes:**

- 14 — CAMA ANI invalid digit
- 38 — CAMA ONI digit error
- 39 — CAMA ONI illegal digit
- 46 — Not enough digits for further translation
- 47 — Too many digits for further translation
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 154 — Digit reception, less than two MF digits
- 156 — Digit reception, received exactly two MF digits
- 160 — Digit reception, illegal MF digit
- 224 — Trunk maintenance operational test—invalid digit count
- 226 — Trunk maintenance operational test—invalid digit, test line
- 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.

- (e) **Description:** If during digit collection, the digit reception (DIRE) routine receives an MF error report from the signal processor, the call is killed and the trunk is connected to reorder announcement until a disconnect is received. An MF digit error is any code other than a good 2-out-of-6

MFs. See the Bellcore Company document SRTSV002275 *Bell Operating Company's Notes on the LEC Networks* for a chart of MFs. An MF digit error is detected by the signal processor and is reported to the 1A/1B Processor. All other troubles on MF signaling are detected by the 1A/1B Processor directly. The failure is called main dispenser MF digit error, because the digit error is reported by the dispenser program which sends the call to final handling. The "DIG" field of the trap message might appear as follows:

M — This indicates that any of the first three digits, but not the KP, was mutilated.

823M — This indicates that any of the four digits following the three was mutilated.

3128237M — This indicates that any of the four digits following the seven was mutilated.

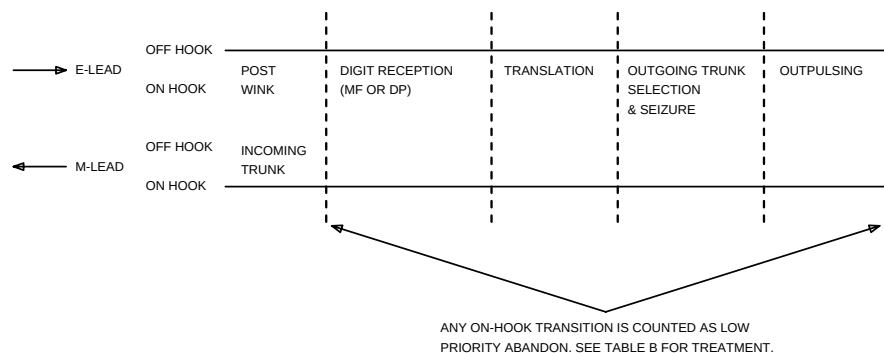
Final Handling Code 77: MF origination queue is overloaded.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** Occurs when a trunk is removed from the MF receiver queue. This happens when the trunk is been on the queue for 4 seconds and the number of trunks on queue exceeds the number of receivers. Any number of trunks can be queued; that is, queue size equals the number of MF trunks. This final handling code causes a count on MSR Part 2, "MF ORIG Q."

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Final Handling Code 78: Main dispenser low-priority abandon.

- (a) **Ineffective Attempt Type:** Input final handling code; see Figure 2-1 for actual treatment and expanded final handling codes.
- (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP

- (d) **Related Final Handling Codes:**

- 235 — Expanded non-MF abandon, no digits
- 236 — Expanded non-MF abandon, some digits
- 237 — Expanded MF abandon, no digits
- 238 — Expanded MF abandon, some digits
- 241 — Expanded MF transmitter queue abandon
- 242 — Expanded no-start dial on delay dial-start dial trunk
- 250 — Expanded miscellaneous abandon before outpulsing completed.

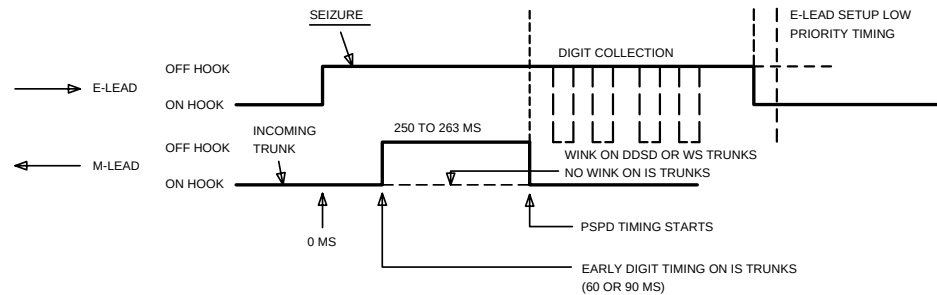
- (e) **Description:** When the incoming trunk has been connected to an MF receiver, the 4ESS Switch sets the T-bits of the incoming trunk E-lead to "low priority" because the trunk should not change state again until after the call is set up. The incoming trunk E-lead stays on low-priority abandon timing until after a "waiting for answer" state is reached on the outgoing trunk. The 4ESS Switch only accepts state change reports infrequently during this time. The 4ESS Switch checks to see if the incoming trunk is still off-hook at several points in the call setup:
1. During digit reception
 2. Twice while waiting for the wink on the outgoing trunk
 3. Twice during outpulsing.

The chart does not show the timing because it can vary according to the type of incoming trunk. After abandon, the incoming trunk and the outgoing trunk, if appropriate, are idled by the universal idle routine. See the expanded final handling code for traps, error analysis, and call disposition information.

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Final Handling Code 79: Main dispenser, dial-pulse abandon.

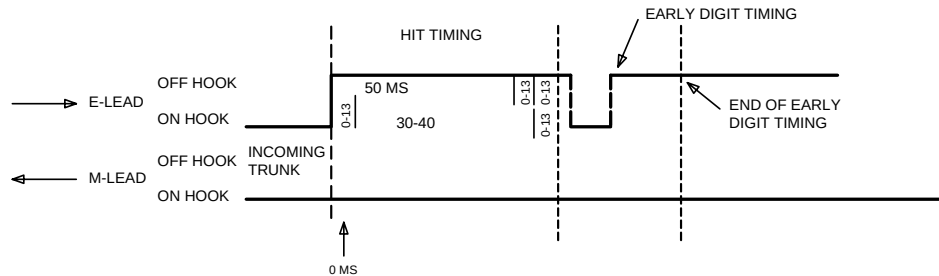
- (a) **Ineffective Attempt Type:** Input final handling code; see Figure 2-1 for actual final treatment and expanded final handling codes
- (b) **Timing Requirements:**



- (c) **Trunk Type:** DP
- (d) **Related Final Handling Codes:**
- 235 — Expanded non-MF abandon, no digits
 - 236 — Expanded non-MF abandon, some digits.
- (e) **Description:** This failure is similar to Final Handling Code 78 but takes place early in a DP call. If the E-lead of the incoming trunk goes on-hook and stays there beyond the timing interval, the 4ESS Switch checks to see if any digits have been collected. If digits have been collected, partial dial abandon is pegged; if no digits have been collected, false start abandon is pegged. During this initial period, the E-lead of the incoming trunk is set to high priority in order to collect the DP digits. After all digits are collected, the E-lead is set to low priority because another state change is not expected until the call is completed. If a call abandons, check the appropriate expanded final handling code for trap, error analysis, and call disposition information.

Final Handling Code 81: Possible early digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
 (b) **Timing Requirements:**



- (c) **Trunk Type:** DP
 (d) **Incoming Signaling Characteristics:** Dial-pulse immediate start
 (e) **Related Final Handling Code:**
 ■ 82 — Dial-pulse early abandon.
 (f) **Description:** "Dial-pulse early digit" can only occur on incoming dial-pulse immediate start trunks. If the E-lead of the incoming trunk goes on-hook...., off-hook, as a dialed digit would during the early digit timing window, the 4ESS Switch assumes that the digits are arriving too soon and drops the call. If the E-lead goes back on-hook and stays on-hook, the 4ESS Switch pegs false start abandon. The hit timing—minimum time that the E-lead must stay off-hook before being reported—varies, depending on the trunk equipment. If the trunk has a single-frequency unit, hit timing is greater than 50 ms. If the trunk has no single frequency unit, hit timing is from 30 to 66 ms.

Final Handling Code 84: Invalid type of call-type word found during digit translations - international translation.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits are received and digit translation is started in the international (1-digit) translator. Digit translation found an assigned type of call-type word at a point in the digit translation process where that type of call-type word is not allowed—call processing rules—and digit translation cannot be completed. The incoming trunk is given final handling treatment and the caller is given International Vacant Code (IVC) announcement. The call register is idled.

⇒ NOTE:

At the point of this failure, there is no outgoing trunk. The outgoing state vector (SVOGT) output in the ineffective attempt office (IAOFC) trap dump is used to supply additional information.

THE SVOGT IS INDICATES WHERE IN TRANSLATIONS THE
INVALID TYPE OF CALL-TYPE WORD WAS FOUND.

IF SVOGT IS-----> THEN

- 1 - FOUND IN INTERNATIONAL 1-DIGIT TRANSLATOR
- 4 - FOUND IN PROPORTIONAL ROUTING TRANSLATOR
- 5 - FOUND IN SUPPLEMENTAL DIGIT TRANSLATOR

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Final Handling Code 85: Too many manually assigned subsequent digit index call-type words found - international translation.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits are received and digit translation started in the international (1-digit) translator. The maximum number of manually assigned subsequent digit index call-type words—current limit is 8—are exceeded for this code grouping—set of digits—which indicates invalid routing translation data. The incoming trunk is given final handling treatment, and the caller is given International Vacant Code (IVC) announcement. The call register is idled.

Final Handling Code 86: Manually assigned subsequent digit index call-type words are found; however, the index specified is out of range - international translation.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits are received and digit translation is started in the international (1-digit) translator. A manually assigned subsequent digit index, found for this code grouping, is out of range. The index size exceeds the size of the code grouping block and translations cannot continue. An error in translations routing data is indicated. The incoming trunk is given final handling treatment, and the caller is given International Vacant Code (IVC) announcement. The call register is idled.

Final Handling Code 87: Call blocked by route-selection-index screening - international translation.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits are received and digit translations are started in the international (1-digit) translator. The call is blocked by route-selection-index screening, which is manually set up using ODA Form 406V. The incoming trunk is given final handling treatment, and the caller is given an announcement specified by "RSFHT" item in HT4SERVICE translator, which is populated by ODA Form 406V. The call register is idled.

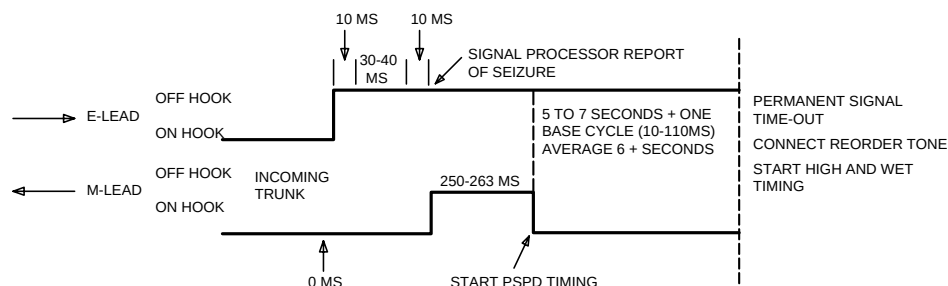
Final Handling Code 88: Invalid subsequent digit index (translation) sequence - international translation.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Digits are received and digit translations are started in the international (1-digit) translator. After translating a manually assigned subsequent digit index, an automatic subsequent digit index, specifying translate more digits, was found. This is an invalid translation sequence and translation cannot be completed. An error in routing translation data is indicated. The incoming trunk is given final handling treatment, and the caller is given International Vacant Code (IVC) announcement. The call register is idled.

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Final Handling Code 90: MF permanent signal time-out.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Timing Requirements:**



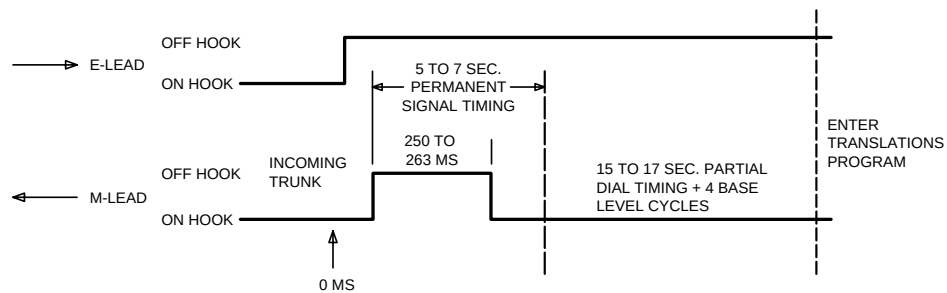
- (c) **Trunk Type:** MF.
- (d) **Related Final Handling Codes:**
- 228 — Continuity test failure
 - 248 — Expanded DP permanent signal time-out, no call register.
- (e) **Description:** A permanent signal can only happen on two-way or one-way incoming trunks. A permanent signal on one-way outgoing trunks results in Final Handling Code 228. "Permanent signal time-out" results when a signal processor reports an off-hook on the E-lead, indicating an incoming seizure; but no digits are received. The off-hook remains beyond the 5- through 7-second permanent signal treatment window.
- If the trunk goes back on-hook prior to time-out, it is a false start abandon.
 - If the time-out occurs, the trunk is reported to trunk error analysis (TERA).
 - If the permanent signal remains beyond the 4- to 6-minute, high-and-wet timing, it is set to and reported to the Circuit Maintenance System (CMS).

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The trunk maintenance program looks at the trunk characteristics after receiving the initial report to determine what type of failure to output. This final handling code traps on permanent signal treatment, reports to error analysis as permanent signal treatment, and is counted in the office counts as an MF equipment (MFEQ) error, PST4.

Final Handling Code 91: MF partial dial time-out.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Timing Requirements:**



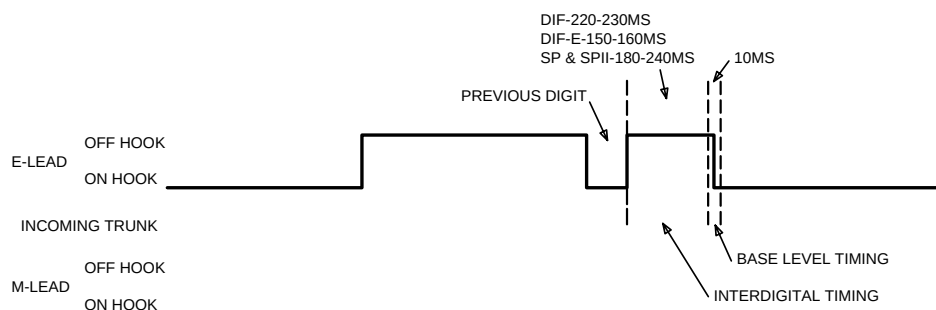
- (c) **Trunk Type:** MF
- (d) **Related Final Handling Codes:**
 - 124 — DP partial dial time-out on dial-pulse call register queue
 - 155 — DP time-out
 - 249 — Expanded DP partial dial time-out, no call register.
- (e) **Description:** Coincident with the start of the wink, the 4ESS Switch starts 5 seconds of permanent signal timing. If the key pulse is received within the 5-second period, 15 seconds for operator trunks classified as TOLLMFD in TOT blank of the characteristics form, the 4ESS Switch stops permanent signal timing and starts partial dial timing. The 4ESS Switch then allows 15 seconds for the remaining digits, including start,

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to be collected. Since the signal processor sends MF digit reports to the 1A/1B Processor in buffered groups of four, it is possible for the last digit report to be in the buffer stage when partial dial timing exhausts. Digit reports made after time-out are ignored. Partial dial time-out assumes at least a key pulse, but no start signal has been received. After time-out, the incoming trunk is routed to a 120 IPM reorder tone. This count shows up in plant counts as an MF equipment partial dial time-out or an MF operator partial dial time-out, depending on the type of trunk involved.

Final Handling Code 92: Dial-pulse report not loaded — digit buffer congested.

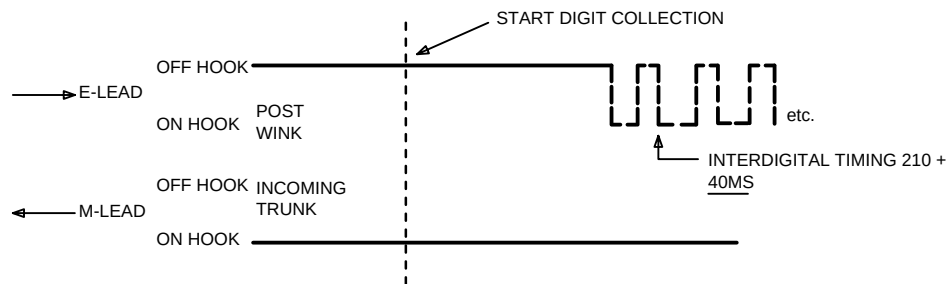
- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Timing Requirements:**



(c) **Trunk Type:** DP

- (d) **Description:** On an incoming DP call, if an on-hook transition occurs during the base-level cycle following interdigital timing of the previous digit, the congestion report is made because that previous digit has not been unloaded from the buffer. The digit is to be unloaded during the base level cycle. Except for a few random occurrences, the only cause for this event is a 1-1 service code where the digit 1, followed by a second digit 1, followed by abandon, is the course of events. This is not a trouble but a reflection of a toll seizure followed by a cut to a service circuit in the local machine. The trap report shows the dialed digit 1 with a Final Handling Code 92 report. This final handling code results in Final Handling Code 93.

Final Handling Code 93: DP, too many pulses.

(a) **Ineffective Attempt Type:** Pulsing Error (PER)(b) **Timing Requirements:**

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(c) **Trunk Type:** DP

(d) **Related Final Handling Codes:**

- 14 — CAMA ANI invalid digit
- 38 — CAMA ONI digit error
- 39 — CAMA ONI illegal digit
- 46 — Not enough digits for further translation
- 47 — Too many digits for further translation
- 76 — Main dispenser MF digit error
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 154 — Digit reception, less than two MF digits
- 156 — Digit reception, received exactly two MF digits
- 160 — Digit reception, illegal MF digit
- 224 — Trunk maintenance operational test—invalid digit count
- 226 — Trunk maintenance operational test—invalid digit, test line
- 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.

(e) **Description:** The signal processor collects dial-pulse digits based on scan-point-state changes. Since the maximum number of pulses on a single digit is 10, more than 10 pulses would cause a digit error report to be sent to the 1A/1B Processor. The 1A/1B Processor checks each digit report for the dialed digit. If the report is an error report, the 1A/1B Processor drops the call and routes the incoming trunk to a reorder announcement. If the interdigital timing is less than 170 ms, the signal processor sees the pulses of two digits as one digit. If the total number of pulses is less than 11, the digit report is for the total number of pulses, resulting in not enough digits and partial dial treatment (that is, $2+3 = 5$). A total number of pulses of 11 or more (that is, $6+6$) results in this final handling code. When "E" is noted as the first character in digits received repetitively, and if trunks are assigned to DIF, suspect 1-1 service codes. Shifting trunks to digroup terminals would then result in Final Handling Code 92 for the same occurrence.

Final Handling Code 95: Second delay-dial/start-dial, time-out failure.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF, DP
- (c) **Related Final Handling Codes:**
 - 104 — Delay dial time-out
 - 131 — First or second glare, far-end controls.
 - 242 — Expanded no-start dial or delay-dial/start-dial trunk
 - 243 — Expanded integrity check failure on delay-dial/start-dial trunks
 - 244 — Expanded no-start dial on wink-start trunk.
- (d) **Description:** On an outgoing MF or DP call, two consecutive delay-dial time-out failures occur. The first failure results in a Final Handling Code 104 report against the outgoing trunk. The second failure results in another Final Handling Code 104 report against the second outgoing trunk and a Final Handling Code 95 report against the incoming trunk. The three reports can be matched by the called party digits. The 4ESS Switch knows that this is the second or final failure because the first failure was marked in the call register (CR). It takes two failures of the same type to cause an FTF. This final handling code can also occur on DP immediate start, one-way outgoing trunks, if on two consecutive attempts for the same call, incoming off-hooks are detected within 210 ms of the out seizure.

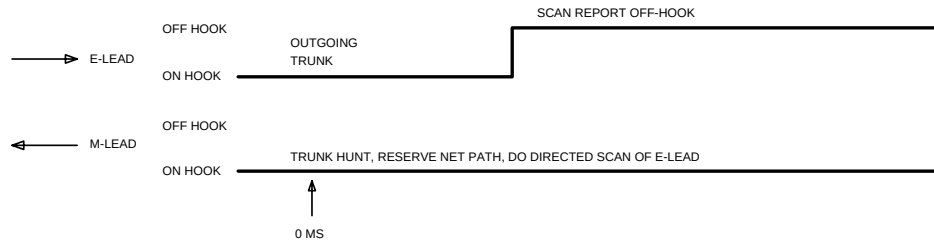
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Final Handling Code 96: Second glare where second trunk has far-end control.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Related Final Handling Codes:**
 - 131 — First or second glare, far-end controls, trunk maintenance entry
 - 207 — Glare detected, far-end controls — first or second trial.
- (d) **Description:** On any outgoing call, a glare situation occurs when the outgoing seizure is applied on the first outgoing trunk when an opposing incoming seizure is seen. The event is marked on the call register attached to the incoming trunk. A second outgoing attempt is made on another outgoing trunk. The same problem occurs. The call is killed with a reorder announcement being returned to the calling customer. The three trap reports can be matched by the called party digits.

Final Handling Code 99: MAIN TASK scanned one-way outgoing trunk; it was off-hook.

- (a) **Ineffective Attempt Type:** Continuity/Polarity Test Failure (CPF)
 (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP
 (d) **Related Final Handling Code:**
 ■ 228 — Seizure on one-way outgoing trunk—continuity test failure.
 (e) **Description:** Continuity polarity failures are pegged as outgoing failures. They show up on the worst trunk subgroup list as high numbers of failures on low attempt ranges on one-way outgoing trunk subgroups. This final handling code results when the 1A/1B Processor selects an idle outgoing trunk; selects and reserves a network path; gets ready to seize the outgoing trunk; and, doing a directed scan of the E-lead, finds it off-hook. Since an off-hook on the E-lead constitutes a busy trunk, the 4ESS Switch attaches a reorder announcement to the outgoing trunk. The incoming trunk goes to retrial or final handling, depending on whether it is the first or the second try. The outgoing trunk continues to receive reorder until the E-lead goes back on-hook. Continuity polarity failure only happens on one-way outgoing trunk subgroups. On two-way trunks, this same situation is considered a glare.

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Final Handling Code 100: Final trial failure of scanned one-way outgoing trunk — continuity polarity failure.

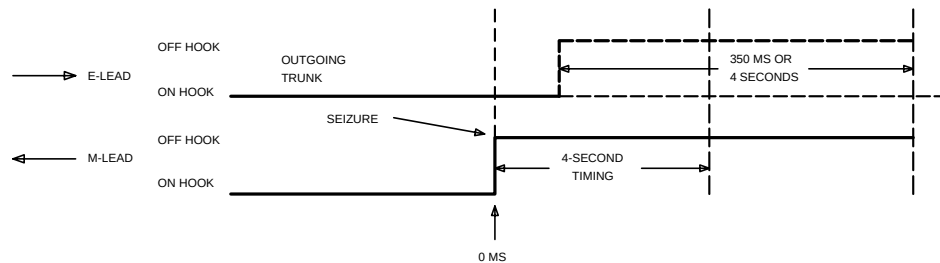
- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** On two consecutive attempts on an outgoing call, the outgoing trunk is found to be off-hook, prior to seizure both times. The first occurrence results in the call register being marked. The second occurrence results in the call being killed, with a Reorder Announcement (ROA) being returned to the calling customer. The three trap reports can be matched by the called party digits.

Final Handling Code 101: Second stop-go time-out.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** DP
- (c) **Related Final Handling Code:**
 - 114 — First or second stop-go time-out, trunk maintenance entry.
- (d) **Description:** On an outgoing DP call, on a DP trunk marked for expected stop-go, two consecutive attempts resulted in the expected stop timing out. The first occurrence causes the event to be marked on the call register (CR) attached to the incoming trunk. The second event kills the call and a reorder announcement is returned to the calling customer. It takes two consecutive faults of the same type to result in an FTF. The three trap reports can be matched through the called party digits.

Final Handling Code 104: Delay-dial time-out.

- (a) **Ineffective Attempt Type:** Input final handling code. See Figure 2-1 for actual final treatment and expanded final handling codes.
- (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP
- (d) **Incoming Signaling Characteristics:** Delay-dial/start-dial one-way outgoing, delay-dial/start-dial two-way, wink-start two-way.
- (e) **Related Final Handling Codes:**
- 242 — Expanded no-start dial on delay-dial/start-dial trunk
 - 243 — Expanded integrity check failure on delay-dial/start-dial trunk
 - 244 — Expanded no-start dial on wink-start trunk
 - 245 — Expanded no-start dial on one-way outgoing trunk, off-hook when timed out.
- (f) **Description:**
- (1) The call-processing program cannot distinguish "no-start dial" from "integrity check failure". Therefore, this final handling code is reported in all cases where a "delay-dial" time-out occurs. The trunk maintenance program then expands this input final handling code to one of four possible expanded final handling codes. (See Figure 2-1.)

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- (2) If the far-end is glare control and the trouble turns out to be a no-start dial, then a no-start dial final handling code follows the glare report. (See Final Handling Code 131.) The input final handling code is 78.
- Expanded Final Handling Code 242 can occur on two-way MF or DP delay-dial/start-dial trunks if the 4ESS Switch has glare control. This code can also occur on one-way outgoing MF or dial-pulse, delay-dial/start-dial trunks.
 - Expanded Final Handling Code 243 can occur on all MF or DP delay-dial/start-dial, two-way or one-way outgoing trunks.
 - Expanded Final Handling Code 244 can occur on all one-way outgoing or two-way dial-pulse or MF trunks.
 - Expanded Final Handling Code 245 can occur on MF or DP wink, one-way outgoing trunks if the E-lead times out off-hook.

Final Handling Code 106: PBX direct connect customer dials an illegal digit for 3-digit prefix.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** PBX Direct Connect DP
- (c) **Incoming Signaling Characteristics:** DP, MF, DTMF
- (d) **Related Final Handling Codes:**
 - 161 — Customer-dialed illegal MF prefix code.
- (e) **Description:** Trunk seizure is recognized and the first three dial pulse digits are collected. An illegal digit is found by the subroutine check of the 3-digit prefix code. The non-switch peg counter is incremented and the incoming trunk is connected to the vacant code announcement.

Final Handling Code 107: Time-out occurred while waiting for a Q.931 clearing message.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931. After entering Q.931 clearing sequence, a "time-out waiting for next message in clearing" sequence occurs. If RELEASE or RELEASE COMPLETE waiting is occurring for the first time, send RELEASE and continue timing for the next message. If waiting for RELEASE COMPLETE for the second time or waiting for RESTART ACKNOWLEDGE, put the trunk "high and wet" and send RESTART.

Final Handling Code 108: A Q.931 disconnect message is returned while the trunk is in the clearing state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931. After entering Q.931 clearing sequence, a disconnect message was returned to the 1A/1B Processor. Timing waiting for the next message was removed and the trunk was put high and wet. There is no immediate reset.

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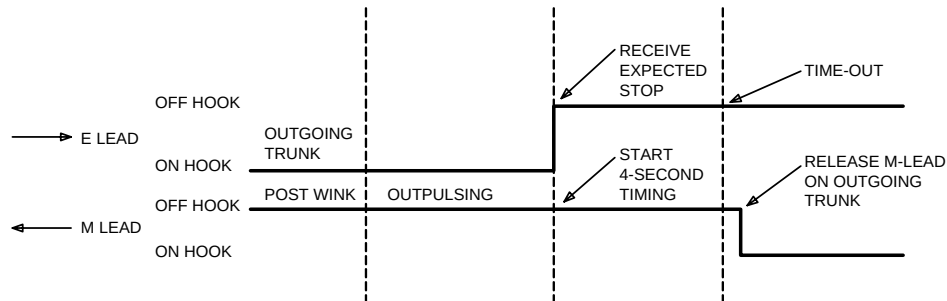
Final Handling Code 112: Second glare outgoing trunk seizure failure.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF, DP
- (c) **Related Final Handling Codes:**
 - 133 — Backdown glare due to directed scan off-hook.
- (d) **Description:** On an outgoing call, two consecutive attempts resulted in the outgoing trunks being off-hook before the 4ESS Switch makes its seizure. In this case, both trunks are two-way trunks. The first attempt results in the event being marked on the call register (CR) attached to the incoming trunk. The second event kills the call, with a Reorder Announcement (ROA) being returned to the calling customer. It takes two failure events **of the same type** to result in an FTF. The trap reports permit matching of the events via the called party digits.

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Final Handling Code 114: First or second stop-go time-out, trunk maintenance entry.

- (a) **Ineffective Attempt Type:** Expected Stop Time-out (XST)
- (b) **Timing Requirements:**



- (c) **Trunk Type:** DP
- (d) **Related Final Handling Code:**
 - 101 — Second stop-go time-out, from final.

- (e) **Description:** If the outgoing trunk is dial pulse with expected stop-go signaling, the 4ESS Switch monitors during outpulsing for an off-hook on the E-lead of the outgoing trunk. When it is received, the 4ESS Switch times for 4 seconds to receive the go signal (on-hook). If the signal times out, the 4ESS Switch pegs expected stop time-out. If this is the first time-out on this call, the 4ESS Switch rehunts and does a second attempt after releasing the first outgoing trunk. If this is the second time-out, the call is connected to a Reorder Announcement (ROA). If a trap is set, first report is expected stop time-out; second attempt is expected stop time-out, followed by final trial failure (Final Handling Code 101).

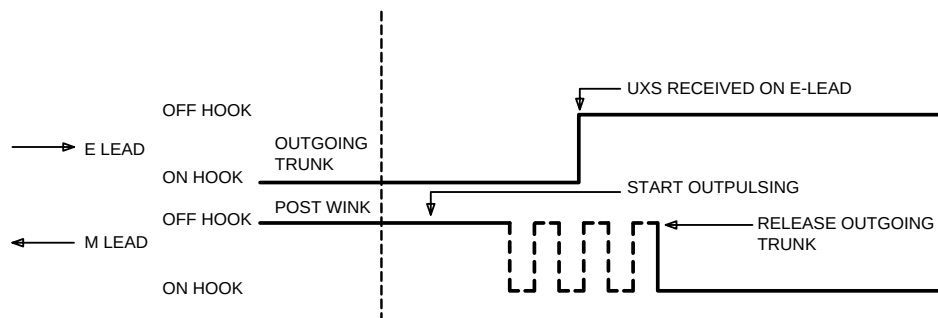
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Final Handling Code 117: Dial-pulse (DP) outgoing worklist full.

- (a) **Ineffective Attempt Type:** DP worklist full (DWF)
- (b) **Trunk Type:** DP
- (c) **Description:** After the wink or delay-dial/start-dial signal, if required, is received, central control issues a command to the signal processor. Find a slot for the outgoing trunk in the DP outgoing worklist. If the signal processor is unable to place this trunk on the list, central control is notified, and the call is terminated. This should be an infrequent occurrence.

Final Handling Code 118: DP unexpected stop, trunk maintenance entry.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Timing Requirements:**



(c) **Trunk Type:** DP

(d) **Related Final Handling Codes:**

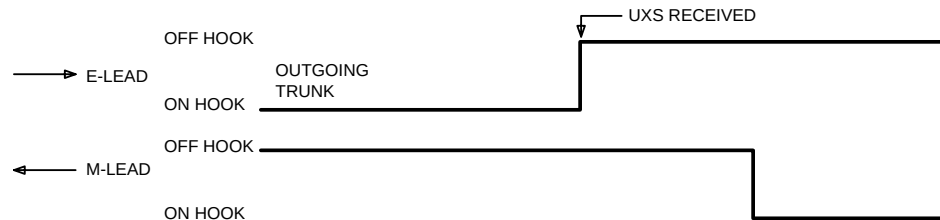
- 119 — MF UXS, Trunk Maintenance
- 127 — DP, second UXS, (ineffective attempt type—final trial failure.)

(e) **Description:** During outpulsing on a DP trunk after sending each digit, the 4ESS Switch looks to see if the outgoing trunk E-lead is on-hook. If the E-lead is off-hook and if the trunk does not use stop-go signaling, the 4ESS Switch pegs UXS with this final handling code. If this is the first UXS on this call, the 4ESS Switch releases the outgoing trunk and rehunts another outgoing trunk. If this is the second UXS on this call, the incoming trunk is connected to a reorder announcement. This is a trunk error analysis entry. The first and second UXSs on DP come out of the trap. The second UXS on the same call also causes final trial failure with Final Handling Code 127. UXSs are counted on the MA11 Machine Service Report as out failures (network management display).

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Final Handling Code 119: MF unexpected stop, trunk maintenance entry.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Timing Requirements:**



- (c) **Trunk Type:** MF
- (d) **Related Final Handling Codes:**
 - 118 — DP UXS, trunk maintenance entry
 - 121 — MF second, UXS, final trial failure.
- (e) **Description:** During the MF transmitter queue hunt and MF outpulsing, the 4ESS Switch monitors watch for an off-hook on the E-lead of the outgoing trunk. Toll connect and intertoll trunks are treated the same until time to send the last set of digits. During the transmission of the last set of digits, an UXS on a test call is ignored due to the possibility of a hit on the E-lead from local offices at this point in the call setup.
 - First UXS causes trunk rehunt.
 - Second UXS causes the incoming trunk to be connected to a reorder announcement.
 - Trap outputs: UXS for first failure; UXS and final trial failure (Final Handling Code 121) on second failure.
 - UXS is a trunk error analysis input.
 - UXS shows up on MA11 Machine Service Report under Out Failures (network management display).

Final Handling Code 120: An attempt was made to record and route the call when an SDN call encountered a particular failure. Call not final handled, irregularity report only.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:**
- (c) **Description:** This code is restricted to SDN calls. The attempt to send a query to the 2SDA/2NCP fails because of an error encountered when communicating with the database. The switch then attempts to route an SDN call in POTS domain.

Final Handling Code 121: Second MF unexpected stop (UXS) received.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF
- (c) **Related Final Handling Code:**
 - 119 — MF unexpected stop, trunk maintenance entry.
- (d) **Description:** On two consecutive outgoing attempts on MF trunks, the outgoing trunk returns UXS. Each event is reported to trunk maintenance. The first event is marked on the call register (CR) attached to the incoming trunk. The second event kills the call and returns a Reorder Announcement (ROA) to the calling customer. It takes two consecutive failures of the same type to result in an FTF. The trap reports can be matched using the called party digits.

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Final Handling Code 122: NM end to end class of service (ECOS) route cancel control canceled call at Originating AT&T Switch (OAS) or Terminating AT&T Switch (TAS).

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:** ALL
- (c) **Description:** Digit translation was completed. Outgoing trunk selection determined the destination area and selected an outgoing route. ECOS trunk hunt was in progress when NM Route Cancel Control canceled the call. The incoming trunk was idled. The call was final handled using the treatment specified by NM Route Cancel Control.

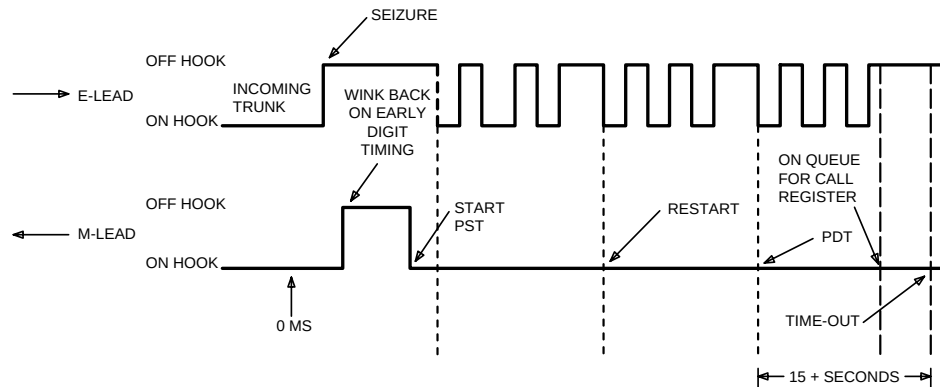
Final Handling Code 123: DP permanent signal or partial dial time-out, no call register, no queue.

- (a) **Ineffective Attempt Type:** Input final handling code; see Figure 2-1 for actual treatment and expanded final handling codes.
- (b) **Trunk Type:** DP
- (c) **Related Final Handling Codes:**
 - 248 — Expanded DP permanent signal time-out, no call register attached
 - 249 — Expanded DP partial dial time-out, no call register attached
- (d) **Description:** When trunk maintenance receives a report of this input final handling code, it checks the signal processor digit buffer to see if any digits are received prior to the time-out. If there are digits received prior to time-out, the report is Final Handling Code 249, partial dial time-out. If there are not, the report is Final Handling Code 248, permanent signal time-out. See Final Handling Codes 248 and 249 for the timing requirements.

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Final Handling Code 124: DP partial dial time-out on DP call register queue.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Timing Requirements:**



- (c) **Trunk Type:** DP
- (d) **Related Final Handling Codes:**
- 91 — MF partial dial time-out
 - 155 — DP Time-out
 - 249 — Expanded DP partial dial time-out, no call register attached.

- (e) **Description:** During digit reception on a dial-pulse incoming call, each incoming digit is passed to the translator. Depending on the type of incoming call, the 4ESS Switch tries to attach a call register after receiving three, five, six, or seven digits. This final handling code can only occur when no call register is available, and the call is on call register queue, and the call exceeds partial-dial timing of 15 seconds. Frequent occurrence of this final handling code indicates that PDTs are happening; but, more importantly, DP call register availability is lacking.

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Final Handling Code 127: Second DP unexpected stop (UXS) received.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** DP
- (c) **Related Final Handling Code:**
 - 118 — DP unexpected stop, trunk maintenance entry.
- (d) **Description:** On two consecutive outgoing attempts, on DP trunks, the outgoing trunk returns UXS. Each event is reported to trunk maintenance. The first event is marked on the call register (CR) attached to the incoming trunk. The second event kills the call and returns a Reorder Announcement (ROA) to the calling customer. It takes two consecutive failures of the same type to result in an FTF. The trap reports can be matched using the called party digits.

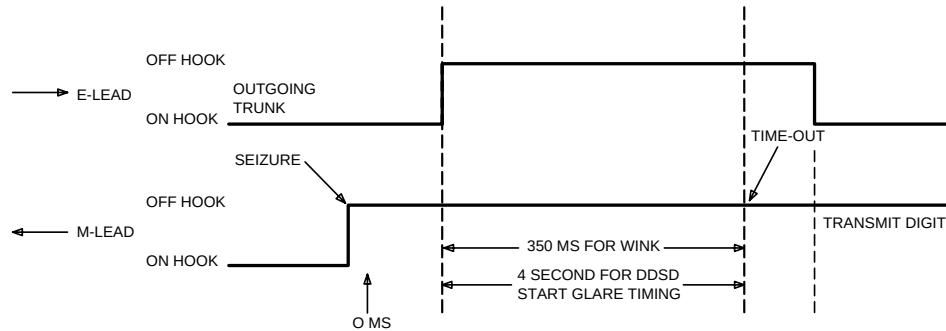
Final Handling Code 129: NM ECOS area cancel control at OAS or TAS.

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:**
- (c) **Description:** Digit translation was completed on an ECOS outgoing call. Outgoing trunk selection determined the destination was an active ECOS area and ECOS trunk hunt was in progress. Manually activated Network Management control canceled the call. The incoming trunk was idled. The call final handled using final handling treatment specified by the NM Area Cancel Control.

Final Handling Code 130: First or second glare, this office controls, trunk maintenance entry.

(a) **Ineffective Attempt Type:** Glare Control (GLC)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF, DP

(d) **Outgoing Signaling Characteristics:** Wink start or delay-dial/start-dial two-way

(e) **Related Final Handling Codes:**

- 131 — First or second glare, far-end controls, trunk maintenance entry
- 133 — Backdown glare due to directed scan off-hook
- 191 — Final trial glare
- 207 — Glare detected, far-end controls, first or second trial
- 208 — Glare detected, this office controls, first trial.

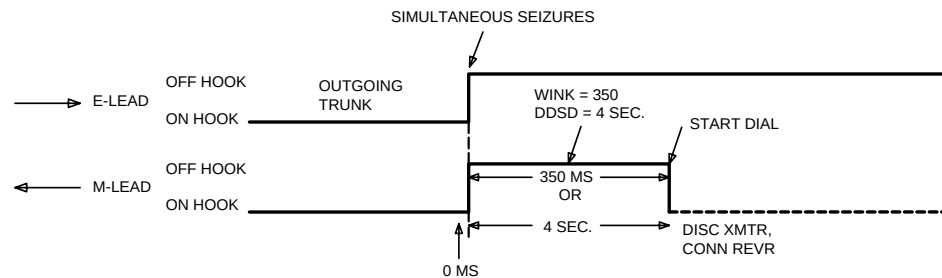
(f) **Description:** The only time this final handling code can occur is when the office controls glare (See "Glare Control" under the "Call-Irregularity Troubleshooting Guide") on an E&M trunk. Since glare is a legitimate condition, it should not be of major interest. Theoretically, after determining that the call is in glare, the 4ESS Switch waits 4 more seconds for the E-lead to go back on-hook. If it does not, the call is then considered no-start dial.

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Final Handling Code 131: First or second glare, far-end controls, trunk maintenance entry.

(a) **Ineffective Attempt Type:** Glare Release (GLR)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF, DP

(d) **Related Final Handling Codes:**

- 96 — Second glare, second trunk has far-end control
- 130 — First or second glare, this office controls trunk maintenance entry
- 133 — Backdown glare due to directed scan off-hook
- 207 — Glare detected, far-end controls, first or second trial.

(e) **Description:** This final handling code can occur on two-way MF or DP trunks and on one-way out DP immediate start trunks where the far-end office is glare control. Glare is initially assumed if the delay-dial/start-dial signal exceeds 4 seconds or the wink signal exceeds 350 ms. An MF trunk is kept under surveillance after the glare condition is determined. If the MF trunk goes on-hook after the 4ESS Switch office is turned around [a 4ESS Switch office releases control of the selected outgoing trunk and then seizes that same trunk as an incoming trunk (glare noncontrol)], a no-start dial (NSD) message is printed (Final Handling Code 242 with input Final Handling Code 78). This applies to both wink and delay-dial/start-dial MF trunks. On one-way out DP immediate start

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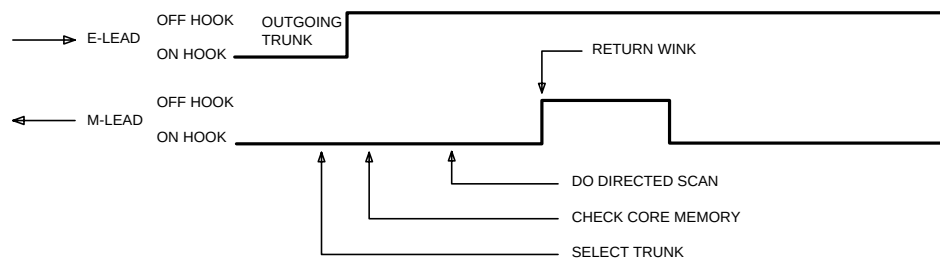
trunks, an incoming off-hook detected within 210 ms of the out seizure causes this final handling code and a trunk rehunt, if it was the first occurrence for this call.

Final Handling Code 132: EAMFCLRN finished sending post address wink in order to connect announcement for redirection work.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** MF equal access incoming trunk call is chosen for redirection. The ICT is connected to specified tone or announcement. A DTMF receiver is connected to the ICT. Caller is asked whether to redirect the call.

Final Handling Code 133: Backdown glare due to directed scan off-hook.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP

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(d) **Related Final Handling Codes:**

- 112 — Second glare, outgoing trunk seizure failure
- 130 — First or second glare, this office controls, trunk maintenance entry
- 131 — First or second glare, far-end controls, trunk maintenance entry.

- (e) **Description:** This final handling code occurs when this 4ESS Switch selects an idle trunk from the trunk block, checks core memory for necessary data, then does a directed scan of the E-lead. If the E-lead is off-hook at this point, the 4ESS Switch backs down, does another trunk hunt for our call, and returns wink on the original trunk to serve the incoming seizure.

Final Handling Code 134: Broadband call incoming slave setup found illegal data associated with master trunk.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Q.931, ISUP
- (c) **Description:** Applies to AT&T Communications ISDN (ACI) broadband call attempt on Q.931 trunks. The initial setup on Q.931 or ISDN User Part (ISUP) trunk is recognized as a broadband call (H0 or H1). Validity checks on the master broadband call trunk failed. The trunk block member number is illegal; it does not allow broadband calls. A RELEASE COMPLETE message with cause bearer capability not implemented is sent by Q.931. An unsuccessful backward setup message with a cause of call failure is sent by ISUP.

Final Handling Code 135: Failed to reserve network path for either broadband call master or slave trunk.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** Q.931, ISUP
- (c) **Description:** Applies to AT&T Communications ISDN (ACI) broadband call attempt on Q.931 or ISDN User Part (ISUP) trunks. Six or 24 incoming trunks are seized, and 6 or 24 outgoing trunks are hunted and busied out. When reserving network path data for the broadband call master or slave, a fail return from NETWORK program is received. No path is available. A RELEASE COMPLETE message with cause unknown is sent by Q.931. An unsuccessful backward failure message with a cause of call failure is sent by ISUP.

Final Handling Code 136: A broadband call incoming slave trunk was found busy in the call setup stage.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931, ISUP
- (c) **Description:** Applies to AT&T Communications ISDN (ACI) broadband call attempts on Q.931 or ISDN User Part (ISUP) trunks. Call setup (Q.931) or initial address message (ISUP) is honored, and a call is identified as a broadband call (H0 or H1). Either an incoming slave or an outgoing slave-broadband call trunk is found in a non-idle state. A release complete message with a cause of channel in use is sent by Q.931. An unsuccessful backward failure message with the cause of call failure sent by ISUP. The call on slave stays up.

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Final Handling Code 137: Exhausted routing options for end-to-end class of service call at TAS.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** ALL
- (c) **Description:** The ICT was marked busy to the CR, and OGT selection determined the destination was an active ECOS area. The ECOS trunk hunt exhausted all routing possibilities for destination area. All circuits were busy or unusable due to ECOS trunk reservation. The switch performed no circuits final handling using final handling treatment specified by original RDB. Call-irregularity message contains COS parameters transport capability, type of origin, signaling service type, dialed number service type, and the ECOS area of the call.

Final Handling Code 138: Common Platform Adjunct (CPA) destination number was found in the destination number trigger table, but an invalid application type was encountered.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** A CPA number is found in the destination number trigger table. An invalid application type is encountered so the call is finaled.

Final Handling Code 140: A CPA trunk hunt fails to find an OGT to the adjunct.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** The CPA trunk hunt is involved and fails to find an OGT to the adjunct, so the call is finaled.

Final Handling Code 141: Network Management returned reroute to or from the hierarchical trunk subgroup controls. Reroute is not applicable to adjunct trunks.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** The CPA trunk hunt is invoked. Network Management (NM) returns a reroute to or from the hierarchical TSG controls. Call was finaled.

Final Handling Code 142: Transmit Time Slot Interchange (TTSI) is encountered in a Common Platform Adjunct (CPA) Routing Data Block (RDB).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** The CPA trunk hunt is invoked. A TTSI type of routing data word is encountered in the CPA RDB. The call is finaled.

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Final Handling Code 143: Exhausted routing options for end-to-end class of service call at OAS.

- (a) **Ineffective Attempt Type:** No Circuits Available (NCA)
- (b) **Trunk Type:** ALL
- (c) **Description:** The ICT was marked busy to the CR, and OGT selection determined the destination was an active ECOS area. The ECOS trunk hunt exhausted all routing capabilities for destination area. All circuits were busy or unusable due to ECOS trunk reservation, and all split access flexible egress routing (SAFER) routing possibilities, if any, were exhausted. The switch performed no circuits final handling using final handling treatment specified by original RDB. Call-irregularity message contains COS parameters transport capability, type of origin, signaling service type, dialed number service type, and the ECOS area of the call.

Final Handling Code 144: A call incoming to the 4ESS switch on end-to-end class-of-service trunk was blocked due to end-to-end class-of-service trunk reservation.

- (a) **Ineffective Attempt Type:** No Circuits Available (NCA)
- (b) **Trunk Type:** ALL
- (c) **Description:** Digit translations were completed, and call type determined processing was in process. Incoming ECOS call screening blocked the call due to ECOS trunk reservation. The switch final handled the call using domestic no-circuit final handling treatment. The call-irregularity message contained COS parameters transport capability, type of origin, signaling-service type, dialed-number service type, and the ECOS originating area of the call.

Final Handling Code 145: Invalid class of service or routing data for end-to-end class of service call.

- (a) **Ineffective Attempt Type:** No Circuits Available (NCA)
- (b) **Trunk Type:** ALL
- (c) **Description:** The ICT was marked busy to the CR, and OGT selection determined destination was an active ECOS area. The ECOS trunk hunt found invalid or inconsistent data. The switch performed no circuits final handling using final handling treatment specified by original RDB. The call-irregularity message contained COS parameters (TPC, TDRG, SST, and DNST), and the ECOS area of the call.

Final Handling Code 150: While handling an equal access incoming call, received at least 3-digit automatic number identification and 7-digit address, calling party numbering plan area not in numbering plan area table.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** An equal access incoming call to a non-LEC Service Switching Point switch. Plain old telephone service calls only and the first three digits are not universal treatment types. Received Automatic number identification—at least three digits—and 7-digit address are received successfully; the office switch for numbering plan area (NPA) reconstruction is on, and the incoming trunk subgroup does not have NPA reconstruction inhibited. The caller's NPA is not in OD4CID_BCD table. Word OD40FCDATA has an announcement name stored in field OD4NPARFHT, which is the announcement to which the caller is connected.

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Final Handling Code 152: Digit reception unacceptable digit count.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Related Final Handling Codes:**
 - 14 — CAMA ANI invalid digit
 - 38 — CAMA ONI digit error
 - 39 — CAMA ONI illegal digit
 - 46 — Not enough digits for further translation
 - 47 — Too many digits for further translation
 - 76 — Main dispenser MF digit error
 - 93 — DP, too many pulses
 - 153 — Illegal CCIS digit present in subsequent signaling unit
 - 154 — Digit reception, less than two MF digits
 - 156 — Digit reception, received exactly two MF digits
 - 160 — Digit reception, illegal MF digit
 - 224 — Trunk maintenance operational test—invalid digit count
 - 226 — Trunk maintenance operational test—invalid digit, test line
 - 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.
- (d) **Description:** There are three final handling codes which represent possible pulsing errors as a result of digit count—46, 47, and 152. Final Handling Codes 46 and 47 are failures during translation. Final Handling Code 152 occurs when translation of the received digits is pointed to an outgoing routing data block (RDB) but the number of received digits does not agree with the acceptable digit count (ADC) listed on the RDB. This count is between 3 and 11. See TG4 for a complete explanation of RDB and ADC.

Final Handling Code 153: Illegal CCIS digit present in subsequent signaling unit (SSU).

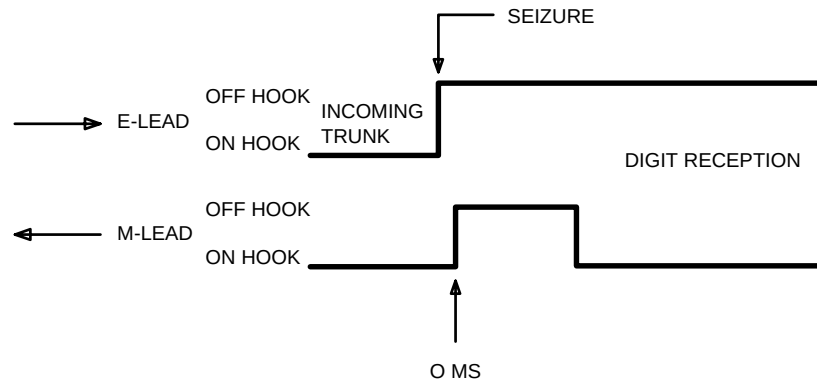
- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** CCIS
- (c) **Related Final Handling Codes:**
 - 14 — CAMA ANI invalid digit
 - 38 — CAMA ONI digit error
 - 39 — CAMA ONI illegal digit
 - 46 — Not enough digits for further translation
 - 47 — Too many digits for further translation
 - 76 — Main dispenser MF digit error
 - 93 — DP, too many pulses
 - 152 — Digit reception, unacceptable digit count
 - 154 — Digit reception, less than two MF digits
 - 156 — Digit reception, received exactly two MF digits
 - 160 — Digit reception, illegal MF digit
 - 224 — Trunk maintenance operational test—invalid digit count
 - 226 — Trunk maintenance operational test-invalid digit, test line
 - 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.
- (d) **Description:** This failure is determined by the digit reception (DIRE) program and consists of any digit in the address field that is in the proper format but not used in domestic CCIS, that is, KP (key pulse) 11, 12. Address digits in the subsequent signaling unit (SSU) are in a modified binary coded decimal (BCD) format: 0001 = 1 - to - 1010 = 0, all 0s = end of digits, and all 1s = start signal. All other combinations are failures on domestic calls.

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Final Handling Code 154: Digit reception program received less than two MF digits.

(a) **Ineffective Attempt Type:** Pulsing Error (PER)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF

(d) **Related Final Handling Codes:**

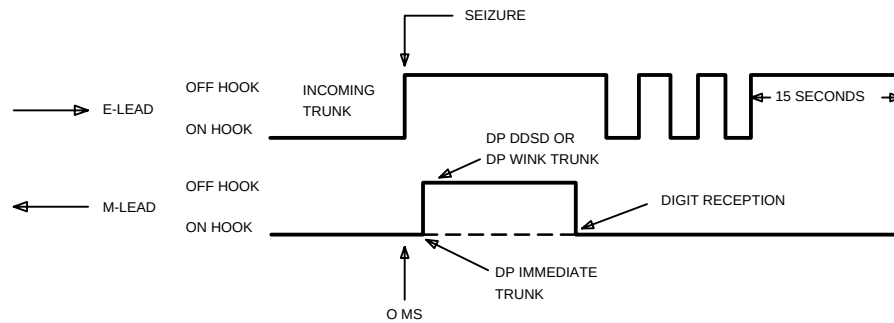
- 14 — CAMA ANI invalid digit
- 38 — CAMA ONI digit error
- 39 — CAMA ONI illegal digit
- 46 — Not enough digits for further translation
- 47 — Too many digits for further translation
- 76 — Main dispenser MF digit error
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 156 — Digit reception, received exactly two MF digits
- 160 — Digit reception, illegal MF digit
- 224 — Trunk maintenance operational test—invalid digit count
- 226 — Trunk maintenance operational test—invalid digit, test line
- 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.

(e) **Description:** On an MF call, this final handling code indicates at least a keying pulse, a start pulse, and not more than one valid digit was received. The main call processing (MAIN) program passes all digits to the digit reception program when the start pulse is received. The digit reception program decides that one digit is not enough.

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Final Handling Code 155: DP time-out.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Timing Requirements:**



- (c) **Trunk Type:** DP
- (d) **Related Final Handling Codes:**
- 91 — MF partial dial time-out
 - 124 — DP partial dial time-out on dial pulse call-register queue
 - 249 — Expanded DP partial dial time-out, no call register attached.
- (e) **Description:** This final handling code occurs 15 seconds after the receipt of some but not all digits. The 1A/1B Processor receives digits from the signal processor and passes them to the digit reception program but that program is asking for more. The MAIN program waits 15 seconds for another signal processor report. If the E-lead seizure persists, a high-and-wet condition results.

Final Handling Code 156: Call Irregularity reported due to ICT-Far End Network (FEN) — Call type call screening. Screening is performed using ICT far end network characteristics and call type data found from the original called number. Call irregularity report only.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** The 4ESS switch is determining the call type and service category of the call marked in the FEN block to report a call irregularity. The call irregularity port may be used to identify possible misrouted intraLATA calls. Call processing continues normally.

Final Handling Code 157: Blue box fraud persisting on a call 5-minute time-out.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** This condition only occurs on an attempted INWATS call involving a trunk which has single frequency inband signaling and multifrequency address signaling. The 4ESS Switch idles an outgoing trunk and gives a reorder tone to an incoming trunk after a 5-minute time-out has occurred.

Final Handling Code 158: Blue box fraud detected on a call-enough MF digits received.

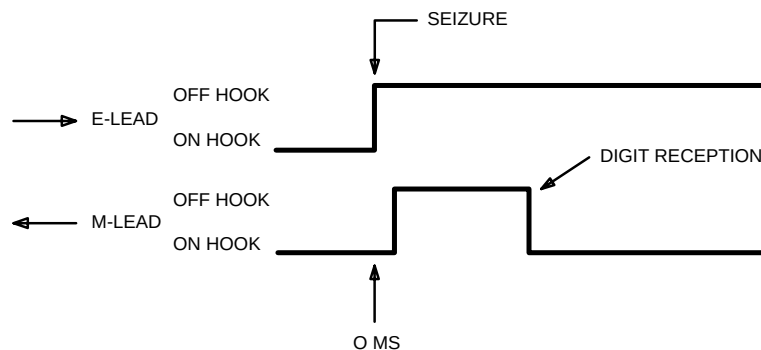
- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** This condition only occurs on an attempted INWATS call involving a trunk which has single frequency inband signaling and multifrequency address signaling. The 4ESS Switch idles an outgoing trunk and gives a reorder tone to an incoming trunk after enough fraudulent digits are received.

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Final Handling Code 160: Digit reception program receives an illegal MF digit.

(a) **Ineffective Attempt Type:** Pulsing Error (PER)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF

(d) **Related Final Handling Codes:**

- 14 — CAMA ANI invalid digit
- 38 — CAMA ONI digit error
- 39 — CAMA ONI illegal digit
- 46 — Not enough digits for further translation
- 47 — Too many digits for further translation
- 76 — Main dispenser MF digit error
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 154 — Digit reception, less than two MF digits
- 156 — Digit reception, received exactly two MF digits
- 224 — Trunk maintenance operational test—invalid digit count
- 226 — Trunk maintenance operational test—invalid digit, test line
- 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.

- (e) **Description:** This final handling code indicates a key pulse, some good digits which are not allowed in this call, and a start pulse were received. The following table defines letters present in the trap message digit field.

Letter	Definition
A	KP2 (or STP2) was received (1300 + 1700 Hz)
B	Code 11 (700 + 1700 Hz) was received
C	Code 12 (900 + 1700 Hz) was received
E	More than ten pulses were received on DP
K	A key pulse was received after the first KP and some digits were received
M	Mutilated MF digit, that is, only one frequency or more than two frequencies were received

Final Handling Code 161: PBX direct connect customer-dialed illegal MF prefix code.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** PBX direct connect
- (c) **Incoming Signaling Characteristics:** DP, DTMF, MF
- (d) **Related Final Handling Codes:**
 - 106 Customer-dialed illegal DP prefix code.
- (e) **Description:** Trunk seizure is recognized and the first three MF digits are collected. An illegal digit is found by the subroutine check of the 3-digit prefix code. Call processing is terminated, and the incoming trunk is connected to the vacant code announcement.

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Final Handling Code 162: Digit reception program looping through translations for all digits from multiple cut-throughs and/or 800 SERVICE (INWATS).

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCP).
- (b) **Trunk Type:** Not applicable
- (c) **Description:** This final handling code is restricted to Public Announcement System (PAS) and/or 800 SERVICE (INWATS) calls with cut-through. All previous digits are translated. However, looping occurs on cut-throughs. The 4ESS Switch goes to vacant de-analysis program for incoming trunk.

Final Handling Code 163: Seven-digit domestic Equal Access (EA) (switched access) MF incoming Software Defined Network (SDN) call didn't receive at least Numbering Plan Area (NPA) in Automatic Number Identification (ANI).

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** Received address digits, last sequence of digits in EA protocol, on an MF EA SDN call - switched access or a 7-digit called party number - non-international. Failed to receive at least NPA in the EA ANI sequence. The incoming trunk is connected to the vacant code announcement, unless a treatment specified in OD4NPARFHT changes the type of announcement.

Final Handling Code 164: The Numbering Plan Area (NPA) from Automatic Number Identification (ANI) is not recognized as a home or served NPA of a 7-digit domestic equal access (EA), switched access, MF incoming Software Defined Network (SDN) call.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** Address digits—last sequence of digits in EA protocol—on an EA MF incoming SDN call—switched access—or 7-digit called party number - noninternational are received. Automatic number identification sequence was previously received, at least NPA. The NPA of the caller is not in OD4CID-BCD table; therefore, the caller's NPA is not known as either the home or one of the served NPAs of this office. The incoming trunk is connected to the vacant code announcement unless the treatment specified in OD4NPARFHT changes announcement type.

Final Handling Code 165: A nonmaintenance call on lock-out (LKO); trunk-blocking sent.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If a trunk is LKO at one end, it should be in the blocked state at the other end. If a trunk is LKO and receives an initial address message (IAM) for a nonmaintenance call, it responds by sending a blocking message to the originating end.

Final Handling Code 166: Blocking (BLO) signal received on call in setup stage.

- (a) **Ineffective Attempt Type:** CCIS Backward Failure (BFL)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If a call is in the process of being set up and a blocking signal is received for that trunk, the trunk is blocked and the call is retried on another trunk. This is the "other end" of Final Handling Code 165.

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Final Handling Code 167: Signaling-link-congestion initial address messages (IAMs) are canceled, and CCIS call failure (CFL) is received—sent on incoming trunk.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If a CCIS terminal exceeds an 80 percent fill of its buffer, it reacts by canceling outbound IAMs and sending incoming CFL messages. This is done on calls in the transient state. The originating CCIS office attaches a reorder announcement (ROA) to a trunk when the CFL message is received.

Final Handling Code 168: Subscriber busy.

- (a) **Ineffective Attempt Type:** Far-End Busy Failure (EBF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to a fully connected CCIS call, end-to-end, that is in the busy-to-call-register state. The initial address message (IAM) and continuity (COT) is sent, and the 4ESS Switch is waiting for an acceptable digit count (ADC). However, the subscriber's line is busy at the terminating end. The CCIS clear forward is received —(CLF) sent on the outgoing trunk—and a subscriber busy (SSB) signal is sent on the CCIS incoming trunk. If the incoming trunk is an E&M trunk, it is connected to a 60-IPM busy tone.

Final Handling Code 171: OGT (outgoing trunk) vacant national number received.

- (a) **Ineffective Attempt Type:** CCIS Outgoing Addressing Failure (ADF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** Message, indicating a vacant code has been reached at an office in the CCIS chain, is received on an OGT. This message is passed back to the originating CCIS office, and a vacant code (VCA) is attached to the originating E&M trunk. These events are passed to the Vacant Code Analysis Program.

Final Handling Code 172: Outgoing trunk (OGT) national switching congestion (NSC) received.

- (a) **Ineffective Attempt Type:** CCIS National Switching Congestion (NSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A message, received on an OGT, indicates an NSC problem at an office in the CCIS chain. This message is passed back to the originating CCIS office, and a reorder announcement (ROA) is attached to the originating E&M trunk. If the address complete (ACO) message had been sent prior to the NSC message, the ROA would be attached at the final CCIS office.

Final Handling Code 173: OGT National Trunk Congestion (NTC) received.

- (a) **Ineffective Attempt Type:** CCIS National Congestion (NCS)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A message, received on an outgoing trunk, indicates a no-circuit condition at some office in the CCIS chain. This message is passed back to the originating CCIS office where a no-circuit-available (NCA) announcement is attached to the originating E&M trunk. The receiving office pegs the NTC received count and an ineffective network attempt count. If an acceptable digit count has been sent prior to the discovery of the no-circuit condition, the failing office attaches no-circuit available. Only the failing office takes a no-circuit count.

Final Handling Code 174: Outgoing trunk (OGT) call failure received.

- (a) **Ineffective Attempt Type:** CCIS Call Failure Received (CFL)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A message, received on an OGT, indicates the call has failed at an office in the CCIS chain. This message is passed back to the originating CCIS office, and a reorder announcement (ROA) is attached to the originating E&M trunk. If an address complete (ACO) message had been sent prior to CFL, the ROA would have been attached at the final CCIS office.

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Final Handling Code 175: Outgoing trunk (OGT) address incomplete (ADI) received.

- (a) **Ineffective Attempt Type:** CCIS Outgoing Addressing Failure (ADF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A message, received on an OGT, indicates the call has failed due to insufficient or improper digits received at an office in the CCIS chain. This message is passed back to the originating CCIS office, and a vacant code (VCA) is attached to the originating E&M trunk.

Final Handling Code 176: OGT (outgoing trunk) message refusal received.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A message is sent, in the backward direction, by a signal transfer point (STP) when the call cannot be forwarded due to a prohibited routing situation caused by a failed signaling link. This message is passed back to the originating CCIS office, and a reorder announcement (ROA) is attached to the originating E&M trunk.

Final Handling Code 177: OGT time-out awaiting ACO

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** The ACO message is transmitted backward from the last CCIS office to indicate it is connecting the call to an E&M trunk and that all other CCIS offices should make their incoming trunk (ICT)-OGT network connections. The timing is 20 to 21 seconds. The originating office, upon time-out, connects its E&M trunk to a reorder announcement (ROA), sends clear forward (CLF) on its OGT, and waits for release guard (RLG) in response, thus ending the call.

Final Handling Code 178: ICT (incoming trunk) reset band (RSB), nonstable.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** CCIS
- (c) **Related Final Handling Codes:**
 - 18 — CAMA (centralized automatic message accounting) abandon before or during position disconnect
 - 19 — CAMA abandon, operator keyed in seven digits
 - 24 — CAMA ANI (automatic number identification) abandon, connected to MF (multifrequency) receiver
 - 30 — CAMA ONI (operator number identification) abandon before getting a CAMA operator
 - 32 — CAMA abandon on CAMA operator queue (no zip-tone).
- (d) **Description:** The reset (RSB) message is sent by the 4ESS Switch after a Phase 4. A band consists of 16 trunks. All 16 trunks in the band are idled, except those in the lock-out (LKO) state. All trunks in the blocking (BLO) state are idled. After receiving RSB, the trunks involved are individually idled. If a RSB had been received on a band in which an incoming trunk was in use, a clear forward (CLF) would be sent on the outgoing side of the call. If an RSB had been received on a band in which an outgoing trunk was in use, an RST would be sent on the incoming side of the call.

Final Handling Code 179: Incoming trunk (ICT) clear forward (CLF) received.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** CCIS
- (c) **Description:** Clear forward (CLF) is received by an office during call setup or early abandon or clearing in setup because of a failure encountered. The receiving office idles the trunk and sends a release guard (RLG) message to the originating office.

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Final Handling Code 180: RST (reset) received—ICT (incoming trunk).

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** CCIS
- (c) **Description:** An RST is due to a demand sequence to reinitialize a trunk or to the previous office HAW (high-and-wet) treatment. After receipt of RST, a release guard (RLG) is sent; and the trunk is idled.

Final Handling Code 181: CCIS voice path assurance (VPA) time-out—first trial.

- (a) **Ineffective Attempt Type:** CCIS Continuity Check Failure (CKF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** Before the outgoing trunk has sent an initial address message (IAM), a continuity check transceiver (CCT) is attached and waits for VPA test complete. Time-out occurs in 2 to 3 seconds; at which time, the outgoing trunk and CCT are idled and both assigned to maintenance programs for testing. An outgoing trunk rehunt is initiated, and to release the far-end, a clear forward (CLF) is sent on the failed outgoing trunk. A release guard (RLG) is expected in response.

Final Handling Code 182: ICT (incoming trunk) time-out.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** The ICT has received an initial address message (IAM) and has a loop-up on the voice path waiting for continuity (COT). Time-out occurs after 10 to 11 seconds, and a CCIS call failure message is received; (CFL) message is sent back on the ICT.

Final Handling Code 183: CCIS CFL received on idle trunk.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A CFL message has been received on an idle trunk. A normal clearing sequence is started by sending clear forward (CLF) on the trunk. No call is affected, and no CFL count is pegged.

Final Handling Code 184: Network Failure, incoming trunk (ICT); outgoing trunk (OGT) connect.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If an office cannot complete its cross-office path upon receipt of address complete (ACO), a national switching congestion (NSC) message is sent in the backward direction and a clear forward (CLF) is sent in the forward direction. If the ICT is E&M, a reorder announcement (ROA) is attached to this trunk.

Final Handling Code 185: A bad message is received on one trunk.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If one of the following messages is received on an idle trunk, CLF is sent on the trunk to initiate the normal clearing sequence:
 - Message refusal (MRF)
 - Confusion (COF)
 - Any CCIS backward failure (BFL), which is one of the following, sent before ACO/address incomplete (ADI), CCIS call failure received (CFL), COF, national trunk congestion (NTC), national switching congestion (NSC), and vacant national number (VNN).
 - Address complete (ADC).

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Final Handling Code 186: No initial address message (IAM) following COT.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** When an idle trunk receives COT, a 1-second timing sequence is started, awaiting a possible retransmitted IAM. If no IAM is received, the trunk is returned to idle.

Final Handling Code 187: No IAM following CLF.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** When an idle trunk receives a CLF, a 1-second timing sequence is started, awaiting a possible retransmitted IAM. If no IAM is received, an release guard (RLG) is sent on the trunk.

Final Handling Code 188: No response to reset (RST).

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If an attempt to reinitialize with RST is not answered with either clear forward (CLF) from an outgoing trunk or release guard (RLG) from an incoming trunk, this office trunk is put in the high-and-wet (HAW) state. The RST is sent periodically to see if communications have been restored to the far-end office for the trunk.

Final Handling Code 189: Different IAM received on ICT.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A second IAM is received on an ICT in the setup stage, and the two IAMs do not match. A confusion (COF) message is sent in the backward direction, and clear forward (CLF) is sent out on the OGT. A CLF is expected to begin the clearing sequence for the ICT.

Final Handling Code 190: Backward/forward signal not received.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** After sending either clear forward (CLF), on an outgoing trunk (OGT), or a CCIS backward failure (BFL), on an incoming trunk (ICT), 4 seconds are allowed for the response. If no response (that is, release guard [RLG] on OGT or clear forward [CLF] on ICT) is received before time-out, an RST is sent to begin a demand clearing sequence.

Final Handling Code 191: Final trial glare.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** On a glare release (GLR) trunk, the second glare results in this office sending CCIS call failure received (CFL) on its incoming trunk (FHC 187). This call ends in a reorder announcement (ROA) at some point in the backward chain. The outgoing trunk that glared is made an incoming trunk and acted upon as an incoming origination.

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Final Handling Code 192: Second trial failure.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** On a second trial failure, a CCIS call failure received (CFL) is sent to the incoming trunk. This call ends in a reorder announcement (ROA) at some point in the backward chain.

Final Handling Code 193: Glare on incoming test line (TLIN) call.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If an incoming TLIN call should glare, the incoming trunk passes a CCIS call failure received (CFL) to clear the TLIN call. Normal glare control/noncontrol is ignored, and the non-TLIN call has priority.

Final Handling Code 194: Routing categories (12-15) are restricted to intra-network usage.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** On an incoming CCIS trunk, routing category (12-15) is restricted to intra-network use only. The 4ESS Switch applies a vacant national number to the trunk.

Final Handling Code 195: OGT (outgoing trunk)—no signal link.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** On an outgoing call, if no signal link is available to send a message, a "CCIS call failure received" is passed backward on the incoming trunk to begin a normal clearing sequence. This occurs on call setup only.

Final Handling Code 196: incoming trunk (ICT)—no signal link.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If an ICT has a message to send—during call setup— and no link is available, the ICT is placed in a high-and-wet (HAW) state. The OGT, if one is connected, would be cleared by the final handling program.

Final Handling Code 198: No call register available.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If no call register is available for this call, a national switching congestion (NSC) signal is passed back on the incoming trunk, and a reorder announcement (ROA) is attached at the first CCIS office.

Final Handling Code 199: HC (heading code) not equal to subsequent signal unit (SSU).

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If the HC of the initial address message (IAM) is other than –110 (binary)—in an SSU, this is considered to be a terminal hardware problem. A confusion (COF) message is sent on the incoming trunk, and a clear forward (CLF) is sent on the outgoing trunk, if connected.

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Final Handling Code 200: CCIS outgoing trunk received reset while in waiting-for-answer state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** An outgoing CCIS trunk in the waiting-for-answer state received a reset. The 4ESS Switch resets an incoming CCIS trunk and sends a reorder announcement to an incoming MF or DP.

Final Handling Code 201: No CCIS transceiver available.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If a transceiver cannot be found, an initial address message (IAM) is not sent forward, a NSC (national switching congestion) message is sent on the incoming trunk, and a reorder announcement (ROA) is attached at the first CCIS office.

Final Handling Code 202: Failure to connect CCIS transceiver, second trial.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A transceiver has been found but cannot be attached to the outgoing trunk. After the second try, an initial address message (IAM) is not sent forward, a national switching congestion (NSC) message is sent on the incoming trunk, and a reorder announcement (ROA) is attached at the first CCIS office.

Final Handling Code 203: No signaling link available when sending IAM.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If no signaling link can be found to send an IAM, a CFL is sent on the incoming trunk and an ROA is attached at the first CCIS office.

Final Handling Code 204: CCIS voice path assurance (VPA) time-out—second trial.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FFT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** Same as Final Handling Code 181 except no outgoing trunk rehunt is initiated, and a clear forward (CLF is sent on the incoming trunk).

Final Handling Code 205: Reset (RST) received-outgoing trunk (OGT).

- (a) **Ineffective Attempt Type:** CCIS Backward Failure (BFL)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A RST is due to a demand sequence to reinitialize a trunk or to the previous office HAW (high-and-wet) treatment. After receipt of RST on an OGT, a CLF is sent forward, and an RST is sent on the incoming trunk to clear the backward direction.

Final Handling Code 206: Confusion (COF) received.

- (a) **Ineffective Attempt Type:** CCIS Backward Failure (BFL)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If a COF is received on an outgoing trunk in the nonstable state, the OGT is idled and sent to maintenance, and clear forward (CLF) is sent to kill the first attempt. The call is retried.

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Final Handling Code 207: Glare detected, far-end controls—first or second trial.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** CCIS
- (c) **Related Final Handling Codes:**
 - 191 — Final trial glare
 - 208 — Glare detected, this 4ESS Switch controls, first or second trial.
- (d) **Description:** A glared call (See "Glare Control" under "Call-Irregularity Troubleshooting Guide") is detected, and this office is the GLR—noncontrol—office (See "Glare Release" under "Call-Irregularity Troubleshooting Guide"). This office's outgoing call is terminated, and the incoming call from the far-end [GLC] office is handled in a near normal manner. Termination of this office's outgoing call is initiated by sending a CLF to the GLC office. Next, the initial address message (IAM) from the GLC office is acted upon in a near-normal manner. This office does not trunk hunt an outgoing trunk for the glared incoming call until a release guard (RLG), in response to its CLF, is received from the GLC office. The original call that glared outgoing from this office is retried on another trunk. If this call fails a second time, the call is sent to Final Handling Code 191.
- (e) **Voice Path Assurance (VPA) Test Completion in Glare Situations:** A transceiver is attached at both ends, when the outgoing trunk is seized prior to the call having glared. The VPA test is completed in one of two ways:

1. The GLC office removes its tone once it recognizes the GLR office tone and sends continuity (COT) to indicate a satisfactory VPA test. The GLR office recognizes the tone removal as evidence that the GLC office has seen its tone; then removes its tone.
2. The other case is encountered when the VPA test has been canceled in the GLR office. In this case, no tone is sent by the GLR office, and it is necessary for it to attach a loop on the incoming trunk to enable the GLC office to complete its VPA test in the normal manner.

Final Handling Code 208: Glare detected, this office controls, first or second trial.

- (a) **Ineffective Attempt Type:** Glare Control (GLC)
- (b) **Trunk Type:** CCIS
- (c) **Related Final Handling Code:**
 - 207 — Glare detected, far-end controls, first or second trial, trunk maintenance only.
- (d) **Description:** A glared call is detected, and this office is the GLC office (See "Glare Control" under "Call-Irregularity Troubleshooting Guide"). The incoming call from the far-end [glare release (GLR)] office is terminated, and this office's outgoing call will be handled in a near normal manner by the GLR office. The GLR office sends this office clear forward (CLF) which causes this office to terminate the incoming call on the glared trunk without affecting its outgoing call. This office returns a release guard (RLG), which allows the GLR office to proceed with its trunk hunt for this office's outgoing call. Voice path assurance (VPA) completion in glare situations is discussed in Final Handling Code 207.

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Final Handling Code 209: RLG received on nonstable OGT.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If an RLG is received on an OGT in a nonstable [pre-ACO (address complete)] state, it is assumed the RLG is a spillover from a previous call. Normally, when a clear forward (CLF) is sent, the far-end office responds by terminating the incoming call on this trunk and returning an RLG to the near office. If the RLG is not received before a 4-second time-out—due to being delayed in a signal transfer point (STP)—the reset (RST) is sent to the far-end office which would return a RLG. When the initial address message (IAM) for another call is sent, the delayed RLG is received. A CLF would be sent to the far-end office to clear this call, and the call is retried.

Final Handling Code 210: Reenter final to apply emergency announcement

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** It has been determined that an announcement is required on this call. After receipt of continuity (COT), address complete (ACO) is sent to allow all the offices to make their network connections. After ACO is sent, the call reenters final to attach the particular announcement designated by network management.

Final Handling Code 211: On a trunk-maintenance outgoing-test call on a CCIS outgoing trunk, a crankback (CBK) signal was received.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS outgoing
- (c) **Description:** A CBK signal has been returned in response to the IAM for a test call originated by trunk maintenance on a CCIS outgoing trunk. There is no set response to a CBK signal on a trunk maintenance test call. Therefore, the outgoing trunk and call register are idled.

Final Handling Code 212: Continuity (COT) time-out waiting to apply emergency announcement (EA)

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** An incoming call needs to be attached to an EA, but this trunk times out in 10 seconds awaiting COT. Address complete (ACO) is not sent; but after time-out, a call failure (CFL) is sent on the incoming trunk. This CFL causes a reorder announcement (ROA) to be attached at the originating CCIS office.

Final Handling Code 213: Abandon before emergency announcement (EA) is applied

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If a call is abandoned during continuity (COT) timing before a required EA is applied, a release guard (RLG) is sent in response to the abandon.

Final Handling Code 214: Incoming trunk (ICT) clear forward (CLF) is received while on call register queue (CRQ).

- (a) **Ineffective Attempt Type:** Originating Multifrequency Queue Abandon (OQA)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A call put on call register queue receives a CLF, possibly due to a voice path assurance time-out (2 seconds) at the preceding office. This office responds by clearing the call and returning a release guard (RLG).

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Final Handling Code 215: Unequipped label response—first or second trial.

- (a) **Ineffective Attempt Type:** CCIS Signaling Trouble (SGT)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If a trunk is seized outgoing, an initial address message (IAM) is sent, and the far-end responds with an unequipped label (ULB); this office takes the trunk out of service and marks it ignore. The call is retried once (Final Handling Code 214).

Final Handling Code 216: Unequipped label—final trial.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** If this office receives an unequipped label message, and this is the second trial (Final Handling Code 213), a CCIS call failure received (CFL) message is sent on the incoming trunk, and the call is terminated.

Final Handling Code 218: Unit or carrier failed, CGAP found service circuit for Blue Box Failure Prevention (BBFP) busy to TR.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** MFRCVR connected to an incoming trunk; service circuits for BBFP to TR are busy; the 4ESS Switch disconnects incoming trunk from MFRCVR.

Final Handling Code 224: Trunk maintenance operational test— invalid digit count.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Related Final Handling Codes:**
 - 14 — CAMA ANI invalid digit
 - 38 — CAMA ONI digit error
 - 39 — CAMA ONI illegal digit
 - 46 — Not enough digits for further translation
 - 47 — Too many digits for further translation
 - 76 — Main dispenser MF digit error
 - 93 — DP, too many pulses
 - 152 — Digit reception, unacceptable digit count
 - 153 — Illegal CCIS digit present in subsequent signaling unit
 - 154 — Digit reception, less than two MF digits
 - 156 — Digit reception, received exactly two MF digits
 - 160 — Digit reception, illegal MF digit
 - 226 — Trunk maintenance operational test—invalid digit, test line
 - 227 — Trunk maintenance operational test—outgoing trunk, trunk scanner number not found in routing data block.
- (c) **Description:** An incoming operational test call passes from the digit reception (DIRE) program to the trunk operational test (TOPT) program as soon as DIRE recognizes it as a test call. The TOPT program then completes translations. This final handling code occurs when the digit count is different from what the TOPT program expects.

Final Handling Code 225: Trunk Maintenance Operational Test - Vacant Code Digit Translation

- (a) **Ineffective Attempt Type:** Vacant Code Announcement (VAC)
- (b) **Trunk Type:** Any
- (c) **Description:** A request to make a trunk maintenance call is received. The digits dialed are either numbered less than two, or the 7- or 10-digit translation failed on the OGT TSG. The circuit is idled.

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Final Handling Code 226: Trunk maintenance operational test— invalid digits, test line.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Related Final Handling Codes:**
 - 14 — CAMA ANI invalid digit
 - 38 — CAMA ONI digit error
 - 39 — CAMA ONI illegal digit
 - 46 — Not enough digits for further translation
 - 47 — Too many digits for further translation
 - 76 — Main dispenser MF digit error
 - 93 — DP, too many pulses
 - 152 — Digit reception, unacceptable digit count
 - 153 — Illegal CCIS digit present in subsequent signaling unit
 - 154 — Digit reception, less than two MF digits
 - 156 — Digit reception, received exactly two MF digits
 - 160 — Digit reception, illegal MF digit
 - 224 — Trunk maintenance operational test—invalid digit count
 - 227 — Trunk maintenance operational test—outgoing trunk, TSG number not found in routing data block.
- (c) **Description:** This final handling code occurs only on outgoing test calls originating in this office. If the far-end test line code number is the same as a near-end test-line number and if that number has seven digits, the 4ESS Switch does not allow the call.

For example:

All 959XXXX, in all 4ESS Switch offices, are terminating test line numbers. A 4ESS Switch office attempting to call another 4ESS Switch with a 959 code containing seven digits does not succeed. When this final handling code occurs, specify six or eight digits; the 4ESS Switch will then outpulse without consulting translations.

Final Handling Code 227: Trunk maintenance operational test— outgoing trunk scanner number is not found in the routing data blocks.

(a) **Ineffective Attempt Type:** Pulsing Error (PER)

(b) **Related Final Handling Codes:**

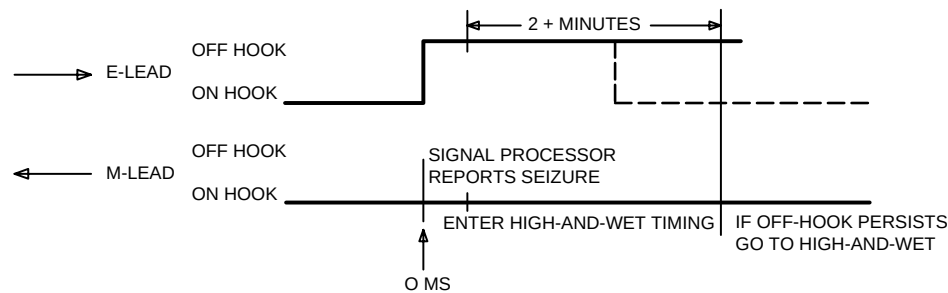
- 14 — CAMA ANI invalid digit
- 38 — CAMA ONI digit error
- 39 — AMA ONI illegal digit
- 46 — Not enough digits for further translation
- 47 — Too many digits for further translation
- 76 — Main dispenser MF digit error
- 93 — DP, too many pulses
- 152 — Digit reception, unacceptable digit count
- 153 — Illegal CCIS digit present in subsequent signaling unit
- 154 — Digit reception, less than two MF digits
- 156 — Digit reception, received exactly two MF digits
- 160 — Digit reception, illegal MF digit
- 224 — Trunk maintenance operational test—invalid digit count
- 226 — Trunk maintenance operational test—invalid digit, test line.

(c) **Description:** This final handling code occurs on outgoing test calls originated in the 4ESS Switch. If the requested test line number is seven or ten digits, the 4ESS Switch performs normal translations on the number to determine the correct routing. If the trunk being tested is not part of the normal message-switching hierarchy, it will not be in the normal routing data block, and the call is rejected. If this final handling code occurs, try specifying five, six, or eight digits. The 4ESS Switch then outpulses without consulting translations.

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Final Handling Code 228: Seizure on one-way outgoing trunk, continuity test failure.

- (a) **Ineffective Attempt Type:** Continuity/Polarity Test Failure (CPF)
- (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP
- (d) **Related Final Handling Code:**
 - 99 — MAIN TASK scanned one-way outgoing trunk; it was off-hook.
- (e) **Description:** Continuity polarity failures are pegged as outgoing failures. They show up on the worst trunk subgroup list as high numbers of failures on low attempt ranges on one-way outgoing trunk subgroups. This final handling code occurs when the signal processor recognizes an off-hook on the E-lead of a one-way outgoing trunk and reports it as a seizure to the 1A/1B Processor. The 1A/1B Processor recognizes the directionality and starts timing. If the off-hook persists, the trunk goes high-and-wet. The same occurrence on a two-way trunk—seizure followed by abandon or time-out—would be counted as a false-start abandon or a permanent-signal treatment.

Final Handling Code 233: Trunk maintenance first routine operational test failure on E&M circuit; reported by the trunk operational test (TOPT) program.

- (a) **Ineffective Attempt Type:** Test Call Error (TCE)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** An outgoing routine operational test of an MF or DP trunk has failed. The trunk operational test (TOPT) program reports the failure to trunk maintenance. A second test is called for through trunk error analysis (TERA). If the second test fails, the trunk is removed from service.

Final Handling Code 235: Expanded non-MF abandon, no digits.

- (a) **Ineffective Attempt Type:** False Start Abandon (FSA)
- (b) **Trunk Type:** DP
- (c) **Related Final Handling Codes:**
 - 78 — Main dispenser, low-priority abandon (also expanded Final Handling Code 237—expanded MF abandon, no digits)
 - 79 — Main dispenser, dial-pulse abandon
 - 105 — Originator went on-hook on an idle glare trunk
 - 106 — Originator went on-hook on an idle trunk.
- (d) **Description:** This expanded final handling code can be reported as a result of input Final Handling Codes 78, 79, or 82. When the trunk maintenance program receives the initial report, it checks for digits in the trunk register. It also checks the signaling type and the signaling characteristics. If the incoming trunk is DP, and if there are no digits in the trunk register, and if the original report was input Final Handling Code 78, 79, or 82, then the failure is pegged as Final Handling Code 235. A similar condition on MF trunks is pegged as Final Handling Code 237. See the pertinent input final handling code for the timing requirements.

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Final Handling Code 236: Expanded non-MF abandon with some digits present.

- (a) **Ineffective Attempt Type:** Partial Dial Abandon (PDA)
- (b) **Trunk Type:** DP
- (c) **Related Final Handling Codes:**
 - 78 — Main dispenser, low-priority abandon
 - 79 — Main dispenser, dial-pulse abandon
 - 238 — Expanded MF abandon with some digits present.

Final Handling Code 237: Expanded MF abandon, no digits.

- (a) **Ineffective Attempt Type:** False Start Abandon (FSA)
- (b) **Trunk Type:** MF
- (c) **Related Final Handling Codes:**
 - 78 — Main dispenser, low-priority abandon
 - 105 — Originator went on-hook on an idle glare trunk
 - 106 — Originator went on-hook on an idle trunk
 - 235 — Expanded non-MF abandon, no digits.
- (d) **Description:** This expanded final handling code is reported as a result of input Final Handling Code 78. When the trunk maintenance program receives the initial report, it checks for digits in the call register. Since MF digits are reported in groups of four by the signal processor, it is possible that the signal processor may have received some digits; yet, the call register is empty. The trunk maintenance program also checks the signaling type and the signaling characteristics.
 - If the incoming trunk is MF, and if there are no digits in the call register, and if the original report was input Final Handling Code 78, then this expanded final handling code is pegged as the failure.
 - A similar condition on DP trunks is pegged as expanded Final Handling Code 235. See input Final Handling Code 78 for abandon timing.

Final Handling Code 238: Expanded MF abandon with some digits present.

- (a) **Ineffective Attempt Type:** Partial Dial Abandon (PDA)
- (b) **Trunk Type:** MF
- (c) **Related Final Handling Codes:**
 - 78 — Main dispenser, low-priority abandon
 - 236 — Expanded non-MF abandon with some digits present.
- (d) **Description:** This expanded final handling code can be reported as a result of input Final Handling Code 78. When the trunk maintenance program receives the initial report, it checks for digits in the call register. It also checks the signaling type and the signaling characteristics.
 - If the incoming trunk is MF, and if there are digits in the call register, and if the original report was input Final Handling Code 78, then this expanded final handling code is pegged as the failure. The digits collected are printed on a trap report if a trap is set.
 - A similar condition on DP trunks is reported as expanded Final Handling Code 236. See input Final Handling Code 78 for abandon timing.

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Final Handling Code 240: Customer Call to Public Announcement System (CCP) was made via direct services dialing assist. An announcement time-out was reached.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCP)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** This is a Direct Services Dialing Capability (DSDC) [A800, Software Defined Network (SDN), 1800, and others] call placed via a Network Control Point (NCP) assist to an announcement, either mass announcement system based phased or BIPAS—CCPAS type. The assist call was successfully connected to a CCPAS announcement. Depending on DSDC options used by NCP — may have returned answer. An announcement time-out occurred; clear assist was not received or announcement length is defined too short. The incoming call is connected to a reorder announcement—call failure actions.

Final Handling Code 241: Expanded MF transmitter queue abandon.

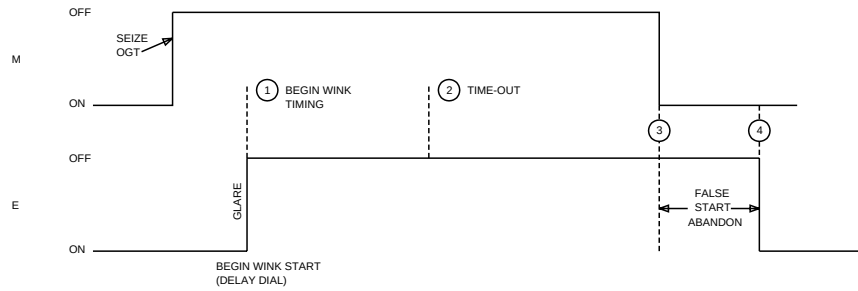
- (a) **Ineffective Attempt Type:** Multifrequency Transmitter Queue Abandon (TQA). Transmitter queue abandon is actually a miscellaneous abandon (MAB) but occurs only during MF transmitter queue.
- (b) **Trunk Type:** MF
- (c) **Related Final Handling Code:**
 - 78 — Main dispenser, low priority abandon
- (d) **Description:** During an outgoing MF call, the 4ESS Switch is in the process of finding a multifrequency transmitter. This call, as all outgoing MF calls, is placed on the multifrequency transmitter queue while in the process of finding an idle multifrequency transmitter, even if idle transmitters are readily available. This allows extra time for the returning wink on the outgoing trunk. While on the queue, main call processing receives an abandon report on the incoming trunk (see Final Handling Code 78). The call is killed and all associated equipment is idled. The trunk maintenance program determines that the call was abandoned while on the queue and changes the Final Handling Code 78 report to a Final Handling Code 241 report.

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Final Handling Code 242: Expanded no-start dial on delay-dial/start-dial and wink-start trunks, including ICOPNOP.

(a) **Ineffective Attempt Type:** No-Start Dial (NSD)

(b) **Timing Requirements:**



① RECEIVE WINK (LEADING EDGE).
BEGIN TIMING

350 MSEC - (600 IF TOT = PBX)
4 SEC - ITOLL-DDSD
5 SEC - TC-DDSD
10 SEC - DDSD SECOND TRIAL.

② TIME-OUT WHILE WAITING FOR WINK (TRAILING
EDGE). IF TRUNK IS 2-WAY, FAR END CONTROLS.
THEN CALL TMAINT WITH GLRTHC (GLARE) SET
T-BITS = ON-HOOK (SP WILL LOAD A SEIZURE
REPORT).

③ NO. 4ESS™ SWITCH HAS BACKED DOWN ON THIS TRUNK
AND IS TREATING IT AS AN ICT WITH A NEW
SEIZURE. THE ON-HOOK TRANSITION HERE IS
A START-DIAL SIGNAL AFTER THE CR AND MRPCVR
ARE ON THE CALL.

④ FAR END SEES THE ON-HOOK AND CONSIDERS IT
ABANDON AND LIKEWISE ABANDONS (NSD), OR
FAR END SENDS DIGITS MEANING THAT THIS WAS
GLARE PREVIOUSLY.

(c) **Trunk Type:** MF, DP

(d) **Related Final Handling Codes:**

- 78 — Main dispenser low-priority abandon
- 104 — Delay-dial time-out
- 244 — Expanded no-start dial or wink-start trunks
- 245 — Expanded no-start dial on one-way outgoing trunk, trunk off-hook when timed out.

(e) **Description:**

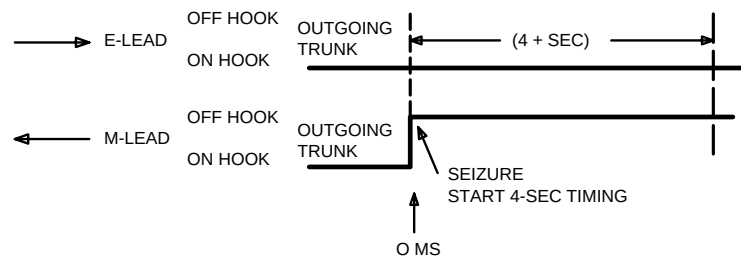
- (1) This final handling code occurs on two-way MF trunks (not DP) when the following conditions are satisfied:
 - This office is not glare control.
 - The delay-dial/start-dial signal has exceeded 4 seconds or the wink signal has exceeded 350 ms.
 - The distant office goes on-hook after this office sends out a start dial (on-hook).
- (2) This final handling code occurs on one-way outgoing MF or DP trunks using the delay-dial/start-dial signal, if the delay-dial/start dial signal (off-hook) exceeds 4 seconds. (See Figure 2-1.)
- (3) This final handling code occurs in trunks whose OSC = ICOPNOP if wink duration exceeds 6000 msec.

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Final Handling Code 243: Expanded integrity check failure on delay-dial/start-dial or ICOPNOP trunks.

(a) **Ineffective Attempt Type:** Integrity Check Failure (IKF)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF, DP

(d) **Related Final Handling Codes:**

- 104 — Delay-dial time-out
- 242 — Expanded no-start dial, delay-dial/start-dial trunk or ICOPNOP
- 244 — Expanded no-start dial or wink-start trunks
- 245 — Expanded no-start dial on one-way outgoing trunk, trunk off-hook when timed out.

(e) **Description:**

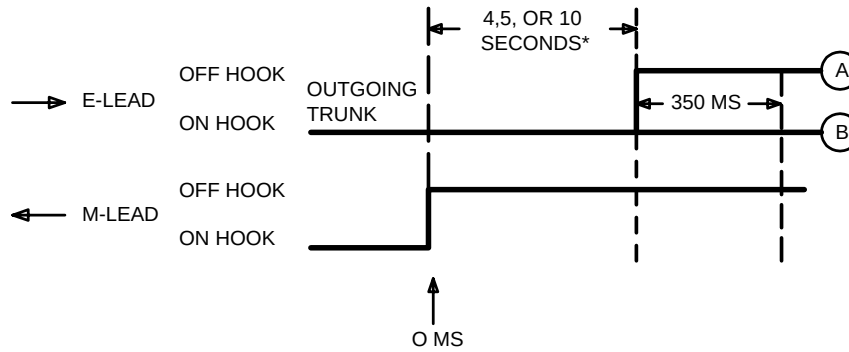
- (1) When the 4ESS Switch seizes the M-lead, it starts timing. If the 4-second time-out occurs (5 seconds if ICOPNOP), the main call processing (MAIN) program reports input Final Handling Code 104. The trunk maintenance program then checks other information to determine if the failure occurred on a DP or MF, wink-start, or delay-dial trunk.
- (2) This FHC can happen on MF or DP trunks set to expect delay dial-start dial and on ICOPNOP. These can be one-way outgoing or two-way trunks. The failure is caused by no E-lead transition (stop-dial signal) following the seizure. Since the E-lead never goes off-hook, there is no question of glare on this failure.

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Final Handling Code 244: Expanded no-start dial on wink-start trunks.

(a) **Ineffective Attempt Type:** No-Start Dial (NSD)

(b) **Timing Requirements:**



*4 SEC = INTERTOLL TIMING

5 SEC = TOLL CONNECT FIRST ATTEMPT

10 SEC = TOLL CONNECT SECOND ATTEMPT

(A)

(B)

350 MS = SECOND STATE
CHANGE TIMING

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(c) **Trunk Type:** MF, DP

(d) **Related Final Handling Codes:**

- 104 — Delay-dial time-out
- 242 — Expanded no-start dial or delay-dial/start-dial trunk
- 245 — Expanded no-start dial on one-way outgoing trunk;
trunk off-hook when timed out.

(e) **Description:** This final handling code can occur on one-way outgoing and all two-way wink-start trunks when the E-lead is found to be on-hook after the call has failed due to either:

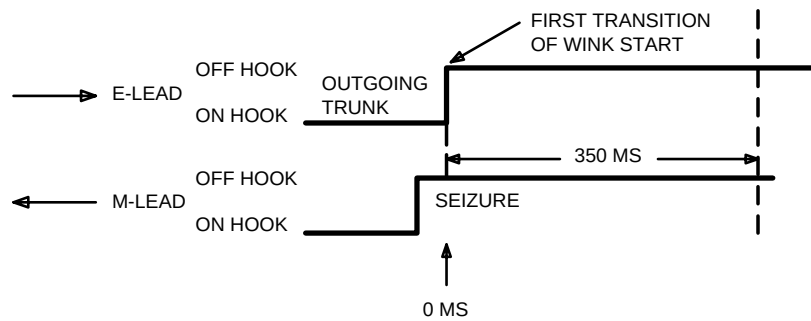
- (1) 4-, 5-, or 10-second time-out waiting for wink, or
- (2) A wink that was just slightly too long; that is, 380 to 500 ms.

If this FHC occurs frequently on a trunk subgroup (TSG), measure duration of the wink returned from the far end during the busy hour, and if it exceeds 350 ms, request the far end to correct the problem. They may be sending DD-SD rather than wink. This FHC may also be reported due to glare situations in which the 4ESS Switch is in control but the far end fails to back down.

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Final Handling Code 245: Expanded no-start dial on one-way outgoing trunk; trunk off-hook when timed out.

- (a) **Ineffective Attempt Type:** No-Start Dial (NSD)
 (b) **Timing Requirements:**



- (c) **Trunk Type:** MF, DP
 (d) **Related Final Handling Codes:**
- 104 — Delay-dial time-out
 - 242 — Expanded no-start dial or delay-dial/start-dial trunk
 - 244 — Expanded no-start dial or wink-start trunks.

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(e) **Description:**

- (1) When the 4ESS Switch receives the off-hook portion of a wink-start signal, it starts timing for the on-hook. On a wink-start trunk, the 4ESS Switch times for 350 ms. Since this is a one-way outgoing trunk, there is no question of glare. The main program reports input Final Handling Code 104 to the trunk maintenance program.
- (2) Call-processing software cannot distinguish NSD from integrity check failure (IKF). Therefore, Final Handling Code 104 is reported in all cases where a delay-dial time-out has occurred. The trunk maintenance program then expands Code 104 to one of four possible expanded final handling codes. (See Figure 2-1.)
- (3) This expanded final handling code can occur on one-way outgoing DP or MF wink-start trunks only. It occurs when the E-lead goes off-hook following a seizure and does not go back on-hook. If the off-hook persists, the trunks are placed on the high-and-wet (HAW) list.

Final Handling Code 246: Expanded ANI office failure which occurred on the same call as the CAMA operator failure.

(a) **Ineffective Attempt Type:** ANI Office Failure (AIF)

(b) **Trunk Type:** MF

(c) **Related Final Handling Codes:**

- 11 — CAMA ANI failure
- 12 — ANI Local Office Failure (AOF)
- 27 — CAMA operator queue full
- 28 — CAMA operator keyed in trouble number
- 30 — CAMA ONI abandon before getting a CAMA operator
- 31 — CAMA operator failed to acknowledge seizure
- 32 — CAMA abandon or CAMA operator queue (no zip-tone)
- 34 — CAMA operator completed call after AIF.

(d) **Description:**

- (1) When a CAMA information digit is received, which indicates that no calling party digits will follow, the trunk maintenance program gets an initial report of Final Handling Code 11. If no information digit is received, the trunk maintenance program gets an initial report of Final Handling Code 12. Trunk maintenance then waits to see if the operator is successful in completing the call. If the operator is successful, the original failure is reported as Final Handling Code 34. This final handling code reports the failure of the operator.
- (2) These reports can be matched because the incoming trunk and the called digits are the same on all reports. A trunk subgroup trap would have to be set for AIF and all possible operator failures to get all reports; all AIF reports should receive close attention.

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- (3) An AIF message with no calling party digits may be received due to "operator queue full" action in the Traffic Service Position System (TSPS). This initiates a position disconnect to the 4ESS Switch (CPE trap report). If ONI is being performed at a manual operator position, not TSPS, and the CAMA operator keys in less than seven digits and then disconnects, an AIF report is printed indicating only those digits actually keyed. This AIF report is followed by a centralized automatic message accounting position error (CPE) report.

Final Handling Code 247: Expanded automatic number identification failure (ANF) which occurred on the same call as the current CAMA operator failure.

- (a) **Ineffective Attempt Type:** Automatic Number Identification Failure (ANF)
- (b) **Trunk Type:** MF
- (c) **Related Final Handling Codes:**
- 12 — CAMA ANI information digit time-out, MF receiver to trunk maintenance
 - 13 — CAMA ANI digit collection time-out, MF receiver to trunk maintenance
 - 14 — CAMA ANI invalid digit, MF receiver to trunk maintenance
 - 27 — CAMA operator queue full
 - 28 — CAMA operator keyed in trouble number
 - 30 — CAMA ONI abandon before getting a CAMA operator
 - 31 — CAMA operator failed to acknowledge seizure
 - 32 — CAMA abandon on CAMA operator queue (no zip-tone)
 - 35 — CAMA completed call ANF, trunk maintenance.

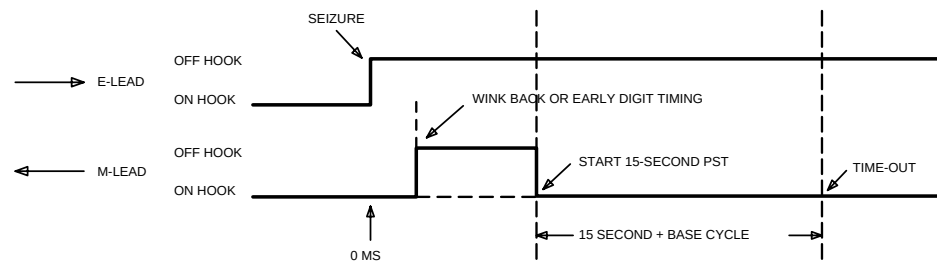
(d) **Description:**

- (1) If the 4ESS Switch expects to receive an AMA information digit after collecting the called party digits but an error happens for any of three reasons (Final Handling Codes 12, 13, or 14), then the call is routed to an operator for completion. Trunk maintenance then waits to see if the operator is successful in completing the call. If the operator is successful, the original trouble is reported as Final Handling Code 34, where the initial final handling code was 12, or Final Handling Code 35, where the initial final handling code was 13 or 14. If the operator is not successful, the operator failure is reported by the proper final handling code, and the original failure is reported as Final Handling Code 247.
- (2) These reports can be matched because the incoming trunk and the called digits will be the same on all reports. A trunk subgroup trap would have to be set for ANF, AIF, AOF, and all possible operator failures to get all the reports. The ANF reports should receive close attention.

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Final Handling Code 248: Expanded DP permanent signal time-out, no call register attached.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Timing Requirements:**



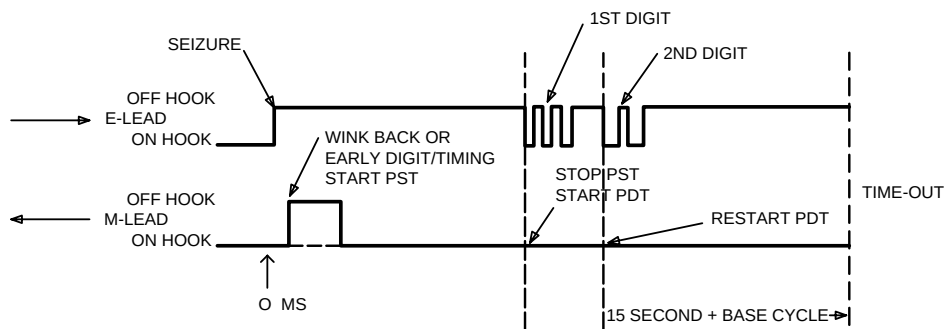
- (c) **Trunk Type:** DP
- (d) **Incoming Signaling Characteristics:** DP-immediate start, DP delay dial-start dial, or DP wink
- (e) **Related Final Handling Codes:**
 - 90 — MF permanent-signal treatment
 - 123 — DP permanent-signal time-out or partial-dial time-out.
- (f) **Description:** Dial-pulse, permanent-signal time-out occurs on DP trunks as a result of no digits received after seizure. The 4ESS Switch reports input Final Handling Code 123 to trunk maintenance. Trunk maintenance scans the signal processor to see if any digits were received. If no digits were received, a PST occurs approximately 15 seconds after the 4ESS Switch indicates it is ready to receive digits on a DP trunk. A similar condition on MF trunks has different timing. (See Final Handling Code 90.) A continuation of the permanent signal results in a high-and-wet condition.

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Final Handling Code 249: Expanded DP partial-dial time-out, no call register attached.

(a) **Ineffective Attempt Type:** Partial-Dial Time-out (PDT)

(b) **Timing Requirements:**



(c) **Trunk Type:** DP

(d) **Related Final Handling Codes:**

- 91 — MF partial-dial time-out
- 123 — DP permanent-signal time-out or partial-dial time-out
- 124 — DP partial-dial time-out on DP call register queue
- 155 — DP time-out.

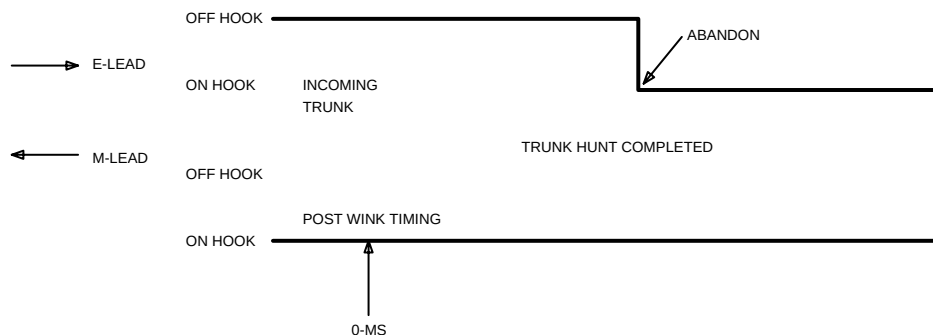
(e) **Description:** Partial dial time-out occurs on DP trunks as a result of receiving some but not all digits after seizure. Depending on the number of digits needed, a call register may be attached after receipt of three, five, six, or seven digits. This final handling code can only happen before a call register is attached. If the 4ESS Switch recognizes a time-out, it reports input Final Handling Code 123. Trunk maintenance checks to see if any digits have been received. If they have, this expanded FHC is selected. A PDT occurs approximately 15 seconds after receipt of the last digit. If the seizure persists, a high-and-wet condition occurs. A similar condition on MF trunks has different timing.

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Final Handling Code 250: Expanded miscellaneous abandon before outpulsing completed.

(a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)

(b) **Timing Requirements:**



(c) **Trunk Type:** MF, DP

(d) **Related Final Handling Codes:**

- 18 — CAMA abandon before or during position disconnect
- 19 — CAMA abandon, operator keyed in seven digits
- 24 — CAMA ANI abandon, connected to MF receiver
- 30 — CAMA ONI abandon before getting a CAMA operator
- 32 — CAMA abandon on CAMA operator queue (no zip-tone)
- 78 — Main dispenser, low-priority abandon
- 178 — Incoming trunk reset band, nonstable
- 180 — Reset received, nonstable.

(e) **Description:**

- (1) After receiving all the digits, translating, and performing outgoing trunk hunt, the 4ESS Switch seizes the outgoing trunk and begins outpulsing. If the outgoing trunk is MF, it also hunts an MF transmitter. If the incoming trunk abandons any time after digit reception is completed, the MAIN program reports Final Handling Code 78. The trunk maintenance program then checks the state of the call and assigns one of seven possible final handling codes. (See Figure 2-1.)
- (2) If the call has reached a point where the outgoing trunk has been seized but outpulsing is not complete, trunk maintenance assigns this final handling code to the failure.

Final Handling Code 251: Customer call to Mass Announcement System (MAS)/Public Announcement System (PAS), path hunt failure(s), all attempt(s) failed. Final handle call.

- (a) **Ineffective Attempt Type:** Customer Call to CCPAS
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** All types of incoming trunks are busy to call registers. All digits were satisfactorily received. Continuity (COT) was received on CCIS or International Telephone and Telegraph Consultative Committee (CCITT 6) incoming trunks. However, network path hunt failures occurred. These calls receive a busy-tone announcement or equivalent incoming trunk treatment.

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Final Handling Code 252: No vacant Mass Announcement System (MAS)/Public Announcement System (PAS) announcement available.

- (a) **Ineffective Attempt Type:** Customer Call to CCPAS
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** All incoming trunks are busy to call registers. All digits were satisfactorily received. Continuity (COT) was received on CCIS or CCITT 6 incoming trunks. The customer call was applied to the MAS. The initial internal announcement identity (IAID) to which the call was routed was vacant or inactive. The system tried to get to a vacant MAS announcement but that was also unavailable. No circuit available (NCA) or equivalent treatment is applied to the incoming trunk.

Final Handling Code 253: Customer Call to Public Announcement System (CCPAS) failure 2. Barge-In source trunk not connected to dedicated TSI-SPC.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCP)
- (b) **Trunk Type:** All ICT Types
- (c) **Description:** During CCPAS and either prior to connecting or after having finished audible ringing tone, found source barge-in trunk not connected to a dedicated TSI-SPC. Caller got No Circuit Announcement (NCA).

Final Handling Code 259: Cut-thru after PAS announcement disallowed by Network Management.

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** The announcement was completed on a Dial-It Service "cut-thru after announcement" call. Network management disallowed cut-thru after the announcement was completed and the reorder announcement was connected to the caller.

Final Handling Code 260: Invalid call type for Public Announcement Service (PAS) cut-thru call.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** Digit translations of the cut-thru number on an incoming PAS call with "cut-thru" indicated the cut-thru number to be an invalid call type. The incoming trunk is connected to the vacant code. The nonswitch peg counter is incremented, and the event is referred to the vacant code analysis program.

Final Handling Code 284: Invalid access using Global Software Defined Network (GSDN) private numbering plan option.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** DTMF, Q931, MFDP, ISUP
- (c) **Description:** The call came in from a PBX type incoming trunk with switch access. The call was killed.

Final Handling Code 287: 800 SERVICE (INWATS) no auxiliary call register.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. Translation determined to initiate a data base inquiry. However, translations were unable to locate an auxiliary call register. This register is required for 800 SERVICE calls. The 4ESS Switch goes to final handling to take down the call.

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Final Handling Code 288: 800 SERVICE (INWATS) signaling link congestion due to processor signal congestion or terminal threshold exceeded.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Direct Signaling Failure (IDS)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. Translations determined to initiate a data base inquiry. However, translations was unable to initiate the inquiry due to signaling link congestion or because the terminal threshold has been exceeded. The signal transfer point (STP), which homes in a 4ESS Switch, broadcasts processor signal congestion (PSC) if too many queries are being received by the STP. Terminal threshold occurs when too many messages are being set to handle with the normally assigned 80 slots. In this case, an additional 20 slots are allocated. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 289: Time-out while waiting for response from data base.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Data Base Failure (IDB)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. Translations determined to initiate a data base inquiry. After approximately 3 seconds, a time-out occurred after waiting for a response from the data base. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 290: 800 SERVICE (INWATS) database failure reply, nonexistent number plan area (NPA).

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) DataBase Failure (IDB)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent by the 4ESS Switch. The number plan area (NPA) does not exist for the originating location. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 291: 800 SERVICE (INWATS) database failure reply, vacant central office code (NNX).

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Database Failure (IDB)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent by the 4ESS Switch. The NNX does not exist in the database. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 292: 800 SERVICE (INWATS) database failure reply, unassigned NNX (CCIS routing error).

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Database Failure (IDB)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent to the 4ESS Switch. An unassigned central office code is recognized by the database as assigned to a different database. The 4ESS Switch goes to final handling to take down the call.

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Final Handling Code 293: 800 SERVICE (INWATS) database failure reply, nonpurchased number plan area (NPA).

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Out-of-Band Screening Failure (INW)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent to the 4ESS Switch. The calling numbering plan area (NPA) was not purchased by the subscriber. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 294: 800 SERVICE (INWATS) database failure reply, vacant line number.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Database Failure (IDB)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A 4ESS Switch query was sent to a regional database which contains a file of 800 SERVICE (INWATS) numbers. If all goes well, the data base returns a normal direct distance dialing (DDD) number to be routed. If the DDD number is not known, the 4ESS Switch goes to final handling to take down the call.

Final Handling Code 295: 800 SERVICE (INWATS) database failure reply, database overload.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Database Failure (IDB)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent from the 4ESS Switch. The database can process queries at the rate of 250 to 300 queries per second. However, due to database congestion, queries cannot be processed at the required rate.

Final Handling Code 296: 800 SERVICE (INWATS) database failure reply, all lines busy.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent from the 4ESS Switch. All subscriber lines are busy. The 4ESS Switch goes to final handling to take down the call.

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Final Handling Code 297: 800 SERVICE (INWATS), call killed by code control.

- (a) **Ineffective Attempt Type:** Automatic Network Management Controls
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. Translations determined to initiate a database inquiry. The call was killed by database control. This control is used to control the rate of database inquiries. This control is automatically sent when thresholds are exceeded for a calling class assigned to a number. Database controls can be either 6- or 10-digit controls. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 298: 800 SERVICE (INWATS), call killed by direct signaling control.

- (a) **Ineffective Attempt Type:** Automatic Network Management Controls (ANM)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. Translations determined to initiate a database inquiry. The call was killed by signal transfer point (STP) network controls. These are 6-digit controls. The controls are used to control the rate of database inquiries. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 299: 800 SERVICE (INWATS) Direct Signaling Failure (IDS), no translation data.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) IDS
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent from the 4ESS Switch. An 800 SERVICE (INWATS) failure occurred due to a lack of translation data at a STP. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 300: 800 SERVICE (INWATS) direct signaling failure, CCIS network congestion.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Direct Signaling Failure (IDS)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent from the 4ESS Switch. The call was killed by CCIS network congestion (traffic-related). This type congestion is at a far-end signal transfer point (STP) which cannot handle the requested rate of queries. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 301: 800 SERVICE (INWATS) direct signaling failure, CCIS network blockage.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Direct Signaling Failure (IDS)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. A database query was sent from the 4ESS Switch. The call was killed by CCIS network blockage (usually equipment). The 4ESS Switch goes to final handling to take down the call.

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Final Handling Code 302: 800 SERVICE (INWATS) blocked by signaling link failure.

- (a) **Ineffective Attempt Type:** 800 SERVICE (INWATS) Direct Signaling Failure (IDS)
- (b) **Trunk Type:** CCIS
- (c) **Description:** This final handling code is restricted to CCIS 800 SERVICE (INWATS) calls only. Translations determined to initiate a database inquiry. However, translations was unable to make the inquiry data 800 SERVICE (INWATS) signaling link outage. The 4ESS Switch goes to final handling to take down the call.

Final Handling Code 310: Call blocked by 10 digit INWATS call control.

- (a) **Ineffective Attempt Type:** Automatic Number Management (ANM)
- (b) **Trunk Type:** Not applicable
- (c) **Description:** Digits received and call processing recognized call as an INWATS call. An INWATS database query is received and Network Management is called. Network Management blocks the call because an INWATS 10-digit code control is received from the INWATS database. The incoming trunk is connected to busy tone. This FHC applies only to traditional INWATS calls.

Final Handling Code 316: Originating outbound call arriving at the International Switching Center (ISC) on a domestic satellite trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** DP, MF, CCIS
- (c) **Description:** International outbound call is canceled because it uses satellite to reach ISC.

Final Handling Code 328: Routine error reported after trunk hunt. Routing data indicates "delete more digits than received." Call was CRB routed.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** ALL
- (c) **Description:** Incoming trunk (ICT) linked to call register (CR); digit translations complete; and the trunk hunt found an outgoing route. Outgoing trunk (OGT) trunk scanner number (TSN) stored in CR. Translations routing data indicates more digits should be deleted than received. The ICT is connected to vacant code announcement, and the OGT is idled.

Final Handling Code 329: Routing error reported by trunk hunt. Routing data indicates "delete more digits than received." Call was RTNR, DNHR, or RDB routed.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** ALL
- (c) **Description:** Incoming trunk (ICT) is linked to CR; digit translations are complete; and the trunk hunt has found an outgoing route. Translations routing data indicates "delete more digits than received." The ICT is connected to vacant code announcement, and the OGT is idled.

Final Handling Code 330: Called CCPAS announcement not available. Announcement handling disposition is to connect caller to new SCS service not active final handling announcement.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** The called CCPAS announcement was not available and announcement instructions called for final handling codes. Call was finaled with Service Not Active (SNA) treatment.

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Final Handling Code 331: Called CCPAS announcement not available. Announcement handling disposition is to connect caller to new SCS vacant MAS final handling announcement.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCP)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** Announcement not available and announcement instructions called for final handling codes. Call was final handled with VMA treatment.

Final Handling Code 332: Received invalid data in a Q.931 SETUP message from a Common Platform Adjunct (CPA) related to the B1 (4ESS Switch OGT to adjunct) trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** Q.931 SETUP message received from a CPA. Invalid data encountered related to B1 (4ESS Switch OGT to adjunct) trunk. Disconnect message sent to CPA with cause equal to normal unspecified.

Final Handling Code 363: Remote blocking with immediate release (hardware fault) received on Outgoing Trunk (OGT).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP stable call was established. A hardware group blocking ISUP message was received on the outgoing trunk (OGT) from the far end. The 4ESS Switch immediately releases the call without exchanging any messages on the OGT. The circuits were idled and marked "remotely blocked". The ICT was released by sending REL. This FHC is only used in tearing down ISUP calls in response to a hardware group blocking message received on an outgoing trunk.

Final Handling Code 364: Remote blocking with immediate release (hardware fault) received on Incoming Trunk (ICT).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP stable call was established. A hardware group blocking ISUP message was received on the ICT from the far end. The 4ESS Switch immediately releases the call without exchanging any messages on the ICT. The circuits were idled and marked "remotely blocked". The OGT was released by sending REL. This FHC is only used in tearing down ISUP calls in response to a hardware group message received on an incoming trunk.

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Final Handling Code 402: Illegal attempt to use a proprietary SDN/P3 feature.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** An attempt was made to place a Software Defined Network (SDN) call. When the caller tried to use a proprietary SDN/P3 feature that was not subscribed to by the customer, the call was cancelled and a vacant code announcement was sent.

Final Handling Code 404: Software Defined Network (SDN) call overflowed to offnet trunk when privilege is not allowed.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** Applies to SDN calls only. The outgoing trunk selected was an offnet trunk and, since offnet egress was not allowed on this call, the no circuit announcement was sent.

Final Handling Code 416: Remote Adjunct Call Handling (REACH) did not find a valid routing treatment at the Hand-off AT&T Switch (HAS).

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** Any
- (c) **Description:** The call was destined for the Common Platform Adjunct (CPA). The Adjunct Logical Address (ALA) was found. No valid routing treatment was found at the HAS. The call was final handled.

Final Handling Code 417: REACH does not find a valid routing treatment at the OAS.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** Any
- (c) **Description:** The call is destined for CPA. ALA is found. No valid routing treatment is found at the OAS; so, the call is final handled.

Final Handling Code 424: Victime Switch did not receive response from network control point (NCP). This is a Call Irregularity report.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** This condition occurs during software defined network (SDN) calls interacting with SDN NCP and/or universal global title (UGT) NCP database during alternate signaling transport network (ASTN). The query is sent to the NCP via ASTN but a response is not received from the NCP. The 4ESS switch queries the mate NCP, and the printed report of the condition is retained (not killed).

Final Handling Code 502: Data call received on a Network Interconnect (NI) boundary with a User Service Information (USI) parameter that indicates 384 or 1536 kb/s restricted.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when an ISUP call is received on an NI boundary. The Initial Address Message is received and the attempted 384 or 1536 kb/s restricted rate data call is not allowed. The release message is sent with a cause of value 63 (service or option not available).

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Final Handling Code 515: True Calling Station Identity (CSI) not received from Traffic Service Position System (TSPS).

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** Digits collected as Calling Station Identity (CSI) and/or office data indicated true CSI should be received from a Traffic Service Position System (TSPS) via a direct signaling message. True CSI from TSPS was not received. The call is terminated, and the incoming trunk is connected to a no circuit announcement.

Final Handling Code 516: Received an illegal digit in a Q.931 setup message.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. The setup message was received and successfully unloaded into the call register. Since an illegal digit (0-9) was received, a RELEASE COMPLETE message was sent on Q.931 incoming trunk.

Final Handling Code 517: Invalid call type for Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. Routing was determined by digits received in the setup message. An invalid destination address caused translations to return a call type not allowed for a Q.931 trunk. A RELEASE COMPLETE message was sent on Q.931 incoming trunk.

Final Handling Code 518: Assist or Direct Producer Call Back (DPCB) is routed on an International Trunk in domestic routing data block during special outgoing setup.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** The outgoing trunk sent all digits successfully. An assist or DPCB call is routed on an international trunk. The call is disconnected and the caller is connected to vacant code announcement.

Final Handling Code 519: A real-time overload cancelled an outgoing retry-rehunt and outgoing trunk setup.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** Never applicable to international inbound or transit calls. The incoming call setup—digit received and translated—and first trial trunk hunt was successful. A real-time overload—level 2 or higher—caused an outgoing rehunt and retry. (First choice outgoing trunk encountered glare, crankback, and others). Office Data Assembler (ODA) form 406C populates Real-Time Overload Retry Treatment (RTORT) field with non-zero values. Announcement returned to caller.

Final Handling Code 523: Received request to send second start-dial pulse to a PBX ICT.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** PBX trunks are not allowed to request second start-dial pulse. The MF and DP trunks are given a vacant code announcement, and CCIS is given a vacant national number (VNN).

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Final Handling Code 524: Path hunt failure while attempting to reserve a network path between the incoming trunk and a Q.931 outgoing trunk.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk has been hunted and continuity has been received. The network path hunt failed while trying to reserve a path between the incoming trunk and the outgoing trunk. The incoming trunk gets a reorder announcement and the outgoing trunk becomes idle.

Final Handling Code 525: Time-out occurs after sending a setup message on a Q.931 outgoing trunk (first try).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted; continuity was received; and a setup message was sent on the outgoing trunk with no response. The outgoing trunk is put high and wet, and a new outgoing trunk is hunted to try to complete the call.

Final Handling Code 526: Time-out occurs after sending a setup message on a Q.931 outgoing trunk (final try).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted; continuity was received; and a setup message was sent — all for the second time. Since there is still no response to the setup message, the incoming trunk is given a reorder announcement, and the outgoing trunk is put high and wet.

Final Handling Code 527: Time-out occurred waiting for a message after a call proceeding message had been received.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A setup message was sent, and a call proceeding message was received. The next message after the call proceeding message was not received. The incoming trunk is given a reorder announcement, and the outgoing trunk is put high and wet.

Final Handling Code 528: A mandatory information element was missing in a facility message.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted, and a setup message was sent. A connect message may have been received. A mandatory information element was missing from the facility message received. A status message will be sent to the PBX.

Final Handling Code 531: Calls blocked due to overload condition at Network Control Point (NCP).

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** CCIS
- (c) **Description:** Overload condition occurred at NCP; calls are canceled due to national trunk congestion.

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Final Handling Code 533: SDN calls blocked due to Network Operation Center System (NOCS) initiated controls.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** CCIS
- (c) **Description:** NOCS-initiated control blocked call due to problems at NCP; calls are canceled and a NTC is given.

Final Handling Code 534: Direct Services Dialing Capability (DSDC) calls blocked due to NOCS-initiated controls.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** CCIS
- (c) **Description:** DSDC calls are canceled due to problems at the NCP; a national trunk congestion is given.

Final Handling Code 535: SDN calls blocked due to direct signaling message failures.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** CCIS
- (c) **Description:** SDN calls are canceled due to CCIS problems; a national trunk congestion is given.

Final Handling Code 536: Direct Services Dialing Capability (DSDC) calls blocked due to direct signaling message failures.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM).
- (b) **Trunk Type:** CCIS
- (c) **Description:** DSDC calls are canceled due to CCIS problems; a national trunk congestion is given.

Final Handling Code 537: Unable to send a message on a Q.931 outgoing trunk because the CNI ring is down. Call finaled.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC).
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. A message cannot be sent because the CNI ring is down. The incoming trunk gets a reorder announcement, and the outgoing trunk is put high and wet.

Final Handling Code 538: A message cannot be sent on a Q.931 outgoing trunk because the output buffer is full. The call is finaled.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted. The output buffer is full; therefore, a message cannot be sent. The incoming trunk gets a reorder announcement, and the outgoing trunk is put high and wet.

Final Handling Code 539: The CNI ring is down; a message on a Q.931 outgoing trunk cannot be sent. Call is not finaled.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The CNI ring is down; a message cannot be sent. The call is allowed continue.

Final Handling Code 540: The output buffer is full; a message on a Q.931 outgoing trunk cannot be sent. The call is not finaled.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted. The output buffer is full; therefore, a message cannot be sent. The call is continued.

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Final Handling Code 541: A setup message was received on a Q.931 outgoing trunk before the trunk was seized.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted. A setup message was received from the PBX before the outgoing trunk could be seized (setup sent). The setup will be processed on the outgoing trunk. A new outgoing trunk may be hunted.

Final Handling Code 542: An invalid message was received on a Q.931 outgoing trunk before the trunk was seized.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted. Before a setup message could be sent, an invalid message was received. A release complete message is sent to the PBX; and the call is continued.

Final Handling Code 543: An invalid message was received on a Q.931 outgoing trunk while in the setup state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted and a setup message was sent. An invalid message was received. A status message is be sent to the PBX.

Final Handling Code 544: An invalid clearing message was received while busy to a call register.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted and a setup message may have been sent. An invalid clearing message (either disconnect, release, release complete, or restart) was received. The outgoing trunk will be idled (may send RELEASE COMPLETE message) and a new outgoing trunk rehunted.

Final Handling Code 545: An invalid restart acknowledge message was received on a Q.931 outgoing trunk while busy to a call register.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A setup message was sent on a Q.931 outgoing trunk, and a restart acknowledge message received unexpectedly. The call is continued.

Final Handling Code 546: An invalid message was received on a Q.931 outgoing trunk while waiting for an answer.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931; the call cannot have broadband capability. A setup message is sent on a Q.931 outgoing trunk, and either a progress or alert message is received. A talking path is established. An invalid message is received while waiting for a connect message—answer. A status message is sent to the PBX.

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Final Handling Code 547: An invalid message was received on a Q.931 outgoing trunk while in the talking state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A call was successfully set up on a Q.931 outgoing trunk, and a connect message was received. While in the talking state, an invalid message was received. A status message is sent to the PBX.

Final Handling Code 548: A disconnect message was received while trying to set up a call on a Q.931 outgoing trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A Q.931 outgoing trunk was hunted, and a setup message was sent. An alert, progress or connect message was received. Then a disconnect message was received. A release is sent on the outgoing trunk.

Final Handling Code 549: A disconnect message was received in the setup state on a Q.931 outgoing trunk with an indicated cause of reorder.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A setup message was sent on the outgoing trunk, and a call proceeding message was received. A disconnect message was received which indicated a reorder condition. The incoming trunk gets a reorder announcement, and a release is sent on the outgoing trunk.

Final Handling Code 553: Translation failures for EAR alternate routing number.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** All ICT types
- (c) **Description:** A number with call type Emergency Alternate Routing (EAR) was found to have an active alternate routing number. Digit translation of EAR alternate destination number failed or returned an illegal call type. The call was terminated with a vacant code announcement.

Final Handling Code 554: REMote Adjunct Call Handling (REACH) did not find a valid routing treatment at the Terminating AT&T Switch (TAS).

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** Any
- (c) **Description:** Call destined for CPA and ALA has been found. No valid routing treatment found at the TAS. The call was final handled.

Final Handling Code 555: The adjunct is off.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** Q931
- (c) **Description:** Call destined for CPA and ALA has been found. The adjunct indicator is off. The call was final handled.

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Final Handling Code 556: CR occupancy exceeded.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** Call destined for CPA and ALA has been found. The CR occupancy threshold exceeded. The call was final handled.

Final Handling Code 560: A disconnect message was received in the setup state on a Q.931 outgoing trunk with an indicated cause of user busy.

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931. A setup message is sent on an outgoing trunk; a call proceeding message is received. A disconnect message indicates user busy. The incoming trunk is given busy tone; a release is sent on the outgoing trunk.

Final Handling Code 561: A disconnect message was received in the setup state on a Q.931 outgoing trunk with an indicated cause of vacant code.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A setup message was sent on the outgoing trunk and a call proceeding message was received. A disconnect message was received which indicated vacant code. The incoming trunk is given a vacant code announcement, and a release is sent on the outgoing trunk.

Final Handling Code 562: A disconnect message was received in the setup state on a Q.931 outgoing trunk with an indicated cause of PBX network congestion or other anomaly.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A setup message was sent on the outgoing trunk, and a call proceeding message was received. A disconnect message was received which indicated no circuit available. The incoming trunk is given a reorder announcement and a release is sent on the outgoing trunk.

Final Handling Code 563: A release message was received while attempting to set up a call on a Q.931 outgoing trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A setup message was sent on the outgoing trunk and a progress, alert, or connect message was received. Then an invalid release message was received. A release complete message is sent, and the outgoing trunk is idled.

Final Handling Code 564: A release complete message was received while trying to set up a call on a Q.931 outgoing trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A setup message was sent on the outgoing trunk; and a progress, alert, or connect message was received. Then an invalid release complete message was received. The outgoing trunk is idled.

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Final Handling Code 565: Timed-out waiting for Direct Services Dialing Capability (DSDC) commands from network control point (NCP).

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** The 4ESS Switch waited for a response from the NCP to an inquiry, ready, or non-fatal exception message. However, the response—DSDC command message—did not come within the specified time interval. The 4ESS Switch responds to the time-out condition by transmitting a fatal exception message to the NCP.

Final Handling Code 566: Direct Services Dialing Capability (DSDC) direct signaling message could not be sent due to link failure or congestion.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A DSDC direct services message was not sent due to blockage in the 4ESS Switch—link failures and/or congestion.

Final Handling Code 567: Direct Services Dialing Capability (DSDC) direct signaling message blocked in network and returned to the 4ESS Switch.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A DSDC direct signaling message, which was transmitted, has been returned due to blockage in the network.

Final Handling Code 568: Calling station identity (CSI) could not be collected for a Direct Service Dialing Capability (DSDC) call.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** The CSI could not be collected on a DSDC call where a CSI is required.

Final Handling Code 569: Routing number specified in a Direct Services Dialing Capability (DSDC) command from network control point (NCP) is invalid.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** The routing number, specified by a DSDC SETR—set routing number—command, is a DSDC number. A fatal exception message is transmitted to the NCP.

Final Handling Code 570: Direct Services Dialing Capability (DSDC) command to terminate the call is received from the network control point (NCP).

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** A DSDC FIN command (terminate call) has been received. Although nothing has gone wrong, the call is terminated.

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Final Handling Code 572: Start of menu or end of menu message time-out.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** On a Direct Services Dialing Capability (DSDC) call, a start of menu or end of menu was never received, and a non-fatal exception message was sent to the NCP.

Final Handling Code 573: Non-fatal exception report.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** CCIS
- (c) **Description:** On a DSDC call, a non-fatal failure was encountered in executing protocol between the network control point (NCP) and the 4ESS Switch. A non-fatal exception message is sent to NCP.

Final Handling Code 574: Queue limit reached on Direct Services Dialing Capability (DSDC) call.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** The incoming DSDC call was in the setup stage. A BIL command was received from the NCP with the queue bit set indicating no other calls can be queued. The call is terminated and the incoming trunk is connected to reorder tone.

Final Handling Code 575: Bureaucracy block needed for Direct Services Dialing Capability (DSDC) call is unavailable.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** During the setup stage of a DSDC call, either a SETC or route command (RTE) was received from the network control point (NCP). A bureaucracy block needed for storing the data to send a terminate message to the NCP was unavailable. The call is terminated, and the incoming trunk is connected to a reorder announcement.

Final Handling Code 576: A disconnect message was received while a Q.931 trunk was in the idle state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931 in the idle state when a disconnect message is received. A Q.931 release complete message is sent. The message received was not compatible with the call state.

Final Handling Code 577: A release message was received while a Q.931 trunk was in the idle state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931 in the idle state when a release message is received. A Q.931 release complete message will be sent.

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Final Handling Code 578: A restart message was received while a Q.931 trunk was in the idle state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931 in the idle state when a restart message is received. A restart acknowledge message will be sent. The trunk will be idled in memory.

Final Handling Code 579: A release message was received while a Q.931 trunk was in the incoming stable state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A release message was received while the call was in the incoming stable state. A disconnect was expected. A Q.931 release complete message will be sent (no cause). The trunk will be idled in memory.

Final Handling Code 580: A release message was received while a Q.931 trunk was in the outgoing stable state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931. A release message was received while the call was in the outgoing stable state. A disconnect was expected. A Q.931 release complete message will be sent (no cause). The trunk will be idled in memory.

Final Handling Code 581: A release complete message was received while a Q.931 trunk was in the incoming stable state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A release complete message was received while the call was in the incoming stable state. The trunk will be idled in memory.

Final Handling Code 582: A release complete message was received while a Q.931 trunk was in the outgoing stable state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931. A release complete message was received while the call was in the outgoing stable state. The trunk will be idled in memory.

Final Handling Code 583: A disconnect message was received while a Q.931 trunk was in the clearing state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The trunk is Q.931, and a disconnect message was received while in the clearing state. A release message (no cause) is sent, and timing, waiting for release complete message, will begin.

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Final Handling Code 584: A disconnect message was received while a Q.931 trunk was in the SINT confused (SICONFIT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A phase 3 saves the call; however, a disconnect is received while in the SICONFIT state. A Q.931 release message (no cause) is sent, and timing for release complete begins.

Final Handling Code 585: A release message was received while a Q.931 incoming trunk was in the SINT confused (SICONFIT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A phase 3 saved the call; however, a release message was received while in the SICONFIT state. A Q.931 release complete message (no cause) will be sent, and the trunk will be idled in memory.

Final Handling Code 586: A release complete message was received while a Q.931 incoming trunk was in the SINT confused (SICONFIT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A phase 3 saved the call; however, a release complete message was received while in the SICONFIT state. The trunk will be idled in memory.

Final Handling Code 587: A restart message is received while a Q.931 incoming trunk is in the SINT confused (SICONFIT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A phase 3 saved the call; however, a restart message is received while in the SICONFIT state. The trunk is idled in memory, and a restart acknowledge is sent.

Final Handling Code 588: A restart acknowledge message was received while a Q.931 incoming trunk was in the SINT confused (SICONFIT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A phase 3 saved the call; however, a restart acknowledge message was received while in the SICONFIT state. The trunk will be idled in memory.

Final Handling Code 589: A disconnect message was received while a Q.931 outgoing trunk was in the SINT confused (SICONFOT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931. A phase 3 saved the call; however, a disconnect message was received while in the SICONFOT state. A Q.931 release message (no cause) will be sent, and timing for release complete will begin.

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Final Handling Code 590: A release message was received while a Q.931 outgoing trunk was in the SINT confused (SICONFOT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931. A phase 3 saved the call; however, a release message was received while in the SICONFOT state. A Q.931 release complete message (no cause) will be sent, and the trunk will be idled in memory.

Final Handling Code 591: A release complete message was received while a Q.931 outgoing trunk was in the SINT confused (SICONFOT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931. A phase 3 saved the call; however, a release complete message was received while in the SICONFOT state. The trunk will be idled in memory.

Final Handling Code 592: A restart message was received while a Q.931 outgoing trunk was in the SINT confused (SICONFOT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931. A phase 3 saved the call; however, a restart message was received while in the SICONFOT state. The trunk will be idled in memory, and a restart acknowledge message will be sent.

Final Handling Code 593: A restart acknowledge message was received while a Q.931 outgoing trunk was in the SINT confused (SICONFOT) state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931. A phase 3 saved the call; however, a restart acknowledge message was received while in the SICONFOT state. The trunk will be idled in memory.

Final Handling Code 594: A mandatory information element was missing in a Q.931 disconnect message.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the call entered the (incoming) stable state. Since a mandatory information element was missing in the disconnect message, a Q.931 release message (no cause) will be sent, and timing for release complete will begin.

Final Handling Code 595: A mandatory information element was missing in a Q.931 disconnect message.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk is Q.931, and the call entered the (outgoing) stable state. Since a mandatory information element was missing in the disconnect message, a Q.931 release message (no cause) will be sent, and timing for release complete will begin.

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Final Handling Code 596: The Billing Number (BN) Information Element (IE) was missing from a Q.931 Setup Message for a service that requires the BN IE.

- (a) **Ineffective Attempt Type:** QPE
- (b) **Trunk Type:** Q.931
- (c) **Description:** This code occurs when the ICT is Q.931. Setup message is received and a Codeset 6 Billing Number IE is not valid for a service that requires the BN IE. VCA is played to the calling party.

Final Handling Code 597: B-channel call not allowed on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was received on a Q.931 D channel. Validity checks for trunk block failed. B-channel call not allowed for this call. A release complete message with a cause of bearer capability not implemented will be sent.

Final Handling Code 598: The setup message was received but the incoming signaling characteristics indicated a one-way out trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was received on a Q.931 incoming trunk. The incoming signaling characteristics indicated a one-way out trunk. A release complete message with a cause of incoming calls barred will be sent.

Final Handling Code 599: An invalid TNS parameter was received on a Q.931 incoming trunk at an access tandem.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The setup message was received and the TNS IE was bad. A REL COM message was sent to the caller with cause invalid IE contents.

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Final Handling Code 600: Second timeout after sending a setup message on a CPA outgoing trunk with no adjunct logical address.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 601: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address zero.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 602: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 1.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 603: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 2.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 604: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 3.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 605: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 4.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

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Final Handling Code 606: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 5.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 607: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 6.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 608: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 7.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 609: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 8.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 610: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 9.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 611: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 10.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

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Final Handling Code 612: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 11.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 613: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 12.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 614: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 13.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 615: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 14.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 616: Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 15.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 outgoing trunk was hunted. Continuity was or was not received and a setup message was sent on the outgoing trunk. Because a second timeout occurred while waiting for a response to the setup message, a call irregularity was reported and a release complete message was sent.

Final Handling Code 617: NAI/NCP response indicates "deny the call" (called number restriction), and the call is blocked before answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

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Final Handling Code 618: NAI/NCP response indicates "deny the call" (fraud restricted), and the call is blocked before answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 619: NAI/NCP response indicates "deny the call" (credit restricted), and the call is blocked before answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 620: NAI/NCP response indicates "deny the call" (nonpayment-calling party), and the call is blocked before answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The caller's ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 621: NAI/NCP response indicates "deny the call" (nonpayment-called party), and the call is blocked before answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The caller's ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 622: NAI/NCP response indicates "deny the call" (nonpayment-other party), and the call is blocked before answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The ANI billing number appears in the NAI database at the NCP. The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 623: NAI/NCP response indicates "deny the call" (called number restrictions), and the call is blocked after answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The ANI billing number appears in the NAI database at the NCP. The NCP blocked the call. The ICT was connected to an NCD announcement.

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Final Handling Code 624: NAI/NCP response indicates "deny the call" (fraud restricted), and the call is blocked after answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 625: NAI/NCP response indicates "deny the call" (credit restricted), and the call is blocked after answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 626: NAI/NCP response indicates "deny the call" (nonpayment-calling party), and the call is blocked after answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 627: NAI/NCP response indicates "deny the call" (nonpayment-called party), and the call is blocked after answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The caller's ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 628: NAI/NCP response indicates "deny the call" (nonpayment-other party), and the call is blocked after answer supervision is received.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** ALL
- (c) **Description:** The TCAP NAI query was formulated and sent. The caller's ANI billing number appears in the NAI database at the Network Control Point (NCP). The NCP response to the query was to block the call. The ICT was connected to an NCD announcement.

Final Handling Code 629: This data call handled in SD mode of operation has reached a situation for which SD default handling would normally be invoked. Call final handled.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs when call was a data call for which switch determined the call should be handled in SMO. The switch determines the call should be handled in SMO and encountered a default handling situation. Per requirements data calls are killed and SD exception code on output indicates specific cause of failure. The switch idles all associated resources and kills the call.

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Final Handling Code 630: This call has encountered a pre-SD query control for which the action indicated (kill call) calls in present mode of operation and SD Mode of Operation (SMO) may be killed by these controls.

- (a) **Ineffective Attempt Type:** MNM
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs when call is determined to be SD query eligible, hence pre-SD query controls are checked. The call is determined to have valid routing, and the switch detected a manual pre-SD query control which matched the called digits, or a Hard to Reach (HTR) control and the digits are HTR. The switch idles all associated resources and kills the call.

Final Handling Code 631: This call has encountered a 10 digit dialed number rate based control (DNRBC), for which the action indicated (kill call), calls segmentation directory (SD), mode of operation (SMO), may be killed by these controls.

- (a) **Ineffective Attempt Type:** MNM
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs when the call is determined to be segmentation directory (SD) query eligible, and hence 10 digit dialed number rate based control (DNRBC), controls were checked. The call was determined to have valid routing, and was determined to be SD query eligible. The switch detected a 10 digit DNRBC control which matched the called number. The final call, IDLE associated resources.

Final Handling Code 638: A Q.931 DISC message was received while waiting for answer - cause indicated busy tone.

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A DISC message is received; the cause value is not "Normal." A Release message is sent on the OGT, and on End-to-End, cause value is passed to on to the ICT.

Final Handling Code 639: A Q.931 DISC message was received while waiting for answer — cause indicates vacant code.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A DISC message is received; the cause is not "Normal." A REL message is sent on the OGT, and on End-to-End, cause is passed back to the ICT.

Final Handling Code 640: A Q.931 DISC message was received while waiting for answer — cause indicates a reorder announcement.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A DISC message was received; the cause is not "Normal." A REL message is sent on the OGT, and on End-to-End, cause value is sent on the ICT.

Final Handling Code 642: DPLS ICT timeout on digit error timing.

- (a) **Ineffective Attempt Type:** Permanent Signal Timeout (PST)
- (b) **Trunk Type:** DP
- (c) **Description:** A seizure was received on a trunk and "early digit timing" began. The DIF-D detected a DP early digit error. The call was terminated.

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Final Handling Code 643: When SCS final handling got the bad answer ID report the call was finaled.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** All ICT types
- (c) **Description:** The call hunted an SCS port and sent orders to start the announcement. The SCS announcement number from the translator disagrees with that on the frame. The call was finaled with BT treatment.

Final Handling Code 644: When the SCS CCPAS call got the bad announcement set report, the call was finaled.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** All ICT types
- (c) **Description:** The CCPAS call hunted an SCS port and sent orders to start it. The frame does not like the announcement set ID because it is not the same set. The call was finaled with NCA treatment.

Final Handling Code 645: When the SCS CCPAS call got the bad announcement ID report, the call was finaled.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCP)
- (b) **Trunk Type:** All ICT types
- (c) **Description:** The CCPAS call hunted a SCS port and sent orders to start it. The MAS announcement number disagrees with that on the frame. The call was finaled using no circuit treatment.

Final Handling Code 646: When new trunk hunt returned fail for an SCS CCPAS call, the call was finaled.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCP)
- (b) **Trunk Type:** Any
- (c) **Description:** An CCPAS call could not get an SCS port. The call was finaled with BT treatment.

Final Handling Code 647: When SCS final handling got the bad announcement set report, the call was finaled.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** All trunk types
- (c) **Description:** The call hunted an SCS port and sent orders to start it. The frame does not like the announcement set ID because it is not the same set. The call was finaled with BT treatment.

Final Handling Code 648: When NETWORK_CONNECT returned fail for SCS CCPAS call, the call was finaled.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHH)
- (b) **Trunk Type:** All trunk types
- (c) **Description:** The CCPAS call successfully hunted an SCS port. The ICT and OGT (SCS port) can not be connected. The call was finaled with BT treatment.

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Final Handling Code 649: When the CCPAS announcement showed the MAS announcement was not available, the call was finaled.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** All trunk types
- (c) **Description:** The SCS reported the announcement started. Announcement handling shows no circuit announcement. The call was finaled with no circuit treatment.

Final Handling Code 650: When handling an incoming call from a local service provider incoming trunk (for Local Nodal Phase 2), the call was determined to be requesting operator assistance - not valid.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All ICT
- (c) **Description:** This code occurs on incoming type of trunk LSP on either a local nodal call or a call for resell/IXC. The called party number is successfully translated and the calls requesting operator assistance are not valid. The call is connected to vacant code announcement.

Final Handling Code 651: When handling an incoming call from a local service provider incoming trunk (for Local Nodal Phase 2), the call was determined to be a data call - not valid.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All ICT
- (c) **Description:** This code occurs on incoming type of trunk LSP on a local nodal call. The called party number is successfully translated and the calls determined to be data calls are not valid. The call is connected to vacant code announcement(MF) or a release message is sent with cause value of 63 (ISUP service or option not available).

Final Handling Code 652: A Transit Network Selection (TNS) parameter received from a local service provider (LSP) trunk for a local nodal call that is terminating to a local nodal customer.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the IAM is received from an LSP trunk. The IAM contains a TNS parameter and the TNS received is from a LSP trunk for a local nodal call that is terminating to a local nodal customer. A release message is sent with a cause value of protocol error - unspecified and a location of local interface controlling this signaling link.

Final Handling Code 655: The Master Location Routing Number (LRN) that is used to populate the Jurisdiction Information Parameter (JIP) in calls from local nodal customers is not provisioned. This is a call irregularity reported only once for a call duration.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when LRN_LOCAL feature bit is on and a call originates from a local nodal customer on a PBX type of trunk. The IAM is received, and the call is being routed and the LRN which is used to populate the JIP is not provisioned in the switch. The JIP is not built (and passed in an IAM) and ISUP processing continues.

Final Handling Code 670: The codeset 6 facility IE in SETUP message has an improperly formatted or invalid request.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The SETUP message was received. The message on a non-CPA trunk has an invalid facility request, or the message on a CPA trunk has an improperly formatted codeset 6 facility IE.

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Final Handling Code 671: A setup message was received, but the mandatory bearer capability information element was missing on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message was received. Since a mandatory bearer capability information element was not found, a release complete message with cause will be sent.

Final Handling Code 672: A Q.931 call register queue was found full when trying to queue for a call register on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message was received. An attempt to queue for a Q.931 call register failed because the queue was full. A release complete message with an unknown cause will be sent.

Final Handling Code 673: Call attempt on a maintenance busy Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. The call setup message was received and processed. The digits were stored in the call register and translations were called. The trunk was found to be maintenance busy. A release complete message with cause will be sent.

Final Handling Code 674: Bearer capability incorrectly indicates a data call on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A setup message was received, and the bearer capability information incorrectly indicates a data call. A release complete message with cause will be sent.

Final Handling Code 675: Bearer capability information in the setup message is invalid for a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and a setup message was received. Bearer capability information was found, and an invalid case was discovered while checking bearer capability fields. A release complete message with cause will be sent.

Final Handling Code 676: Mandatory destination address information element not found in message on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and a setup message was received. Mandatory bearer capability information element was found; however, mandatory destination address information element was not found. A release complete message with cause will be sent.

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Final Handling Code 677: Non-subscribed network specific facility found on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and a setup message was received. Bearer capability information was found; however, a non-subscribed network specific facility was found. A release complete message with cause will be sent.

Final Handling Code 678: Invalid destination address type found on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and a setup message was received. Bearer capability information was found; however, a destination address type was found to be invalid. A release complete message with cause will be sent.

Final Handling Code 679: An unacceptable digit count was found in the destination address on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Pulsing Error (PSE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931 and a setup message was received. An unacceptable digit count was found in the destination address. A release complete message with cause will be sent.

Final Handling Code 680: An invalid digit was found in the destination address on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931 and a setup message was received. Mandatory bearer capability and destination address information elements were found. Found all 1's in destination address digits which indicate bad digits. A release complete message with cause will be sent.

Final Handling Code 681: An invalid message was received in the idle state on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. An invalid message was received while in the idle state. A release complete message with cause will be sent.

Final Handling Code 682: An invalid message was received while in the call register queue state on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the call queued for a call register. An invalid message was received while in the call register queue state. A status message will be sent to the PBX.

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Final Handling Code 683: A disconnect message was received while in the call register queue state on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the call queued for a call register. A disconnect message was received while in the call register queue state. A release message will be sent.

Final Handling Code 684: A release message was received while in the call register queue state on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the call queued for a call register. A release message was received while in the call register queue state. A release complete message with cause will be sent.

Final Handling Code 685: A release complete message was received while in the call register queue state on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the call queued for a call register. A release complete message was received while in the call register queue state. The trunk will be idled.

Final Handling Code 686: A single circuit restart message was received while in the call register queue state on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the call queued for a call register. A single circuit restart message was received while in the call register queue state. The trunk will be idled.

Final Handling Code 687: An invalid message was received while in the "incoming busy to a call register state".

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been successfully processed. An invalid message was received while in the incoming busy to a call register state. A status message will be sent to the PBX.

Final Handling Code 688: A disconnect message was received in the "incoming busy to a call register state" on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been successfully processed. A disconnect message was received in the "incoming busy to a call register state." A release message will be sent to the PBX.

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Final Handling Code 689: A release message was received while in the "incoming busy to a call register state" on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been successfully processed. A release message was received while in the "incoming busy to a call register state". A release complete message with cause will be sent.

Final Handling Code 690: A release complete message was received while in the "incoming busy to a call register state" on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931 and the setup message has been successfully processed. A release complete message was received while in the incoming busy to a call register state. The trunk will be idled.

Final Handling Code 691: A single circuit restart message was received in the incoming busy to a call register state on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been successfully processed. A single circuit restart message was received while in the incoming busy to a call register state. The trunk will be idled.

Final Handling Code 692: An invalid message was received while in the incoming busy to a trunk register state on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been successfully processed. An invalid message was received in the "incoming busy to a trunk register state". A status message will be sent to the PBX.

Final Handling Code 693: An invalid message was received on a Q.931 incoming trunk while in the "trunk connected to dedicated time slot interchange state".

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been successfully processed. An invalid message was received while in the "trunk connected to dedicated time slot interchange state". A release complete message with cause will be sent.

Final Handling Code 694: An invalid message was received on a Q.931 incoming trunk while in the customer call to a public announcement system state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been successfully processed. An invalid message was received while in the "customer call to a public announcement system state". A status message will be sent to the PBX.

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Final Handling Code 695: Unable to send a message on a Q.931 incoming trunk because the buffer is full.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been received. The buffer is full; a message cannot be sent. The trunk will be put high and wet.

Final Handling Code 696: Unable to send message on a Q.931 incoming trunk because the common network interface ring is down.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been received. Unable to send message because The common network interface (CNI) ring is down; a message cannot be sent. The trunk will be put high and wet.

Final Handling Code 697: Unable to send message on a Q.931 incoming trunk because the buffer is full. Call not finaled.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been received. A message cannot be sent because the buffer is full. Processing of the setup continues.

Final Handling Code 698: Unable to send message on a Q.931 incoming trunk because the CNI ring is down. Call not finaled.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931, and the setup message has been received. A message cannot be sent because the CNI ring is down. Processing of the setup continues.

Final Handling Code 699: Received a setup message with a parameterized Network Specific Facilities (NSF) Information Element (IE) with the Switched Digital Video Gateway (SDVG) value in the parameterized field but did not also, receive a calling party IE with a 10 digit Calling party Number (CPN) or the Trunk Subgroup (TSG) subscription bit for this feature was not set to Y.

- (a) **Ineffective Attempt Type:** QPE
- (b) **Trunk Type:** Q.931
- (c) **Description:** This code occurs when a call is received on a Q.931 trunk. Received an NSF IE with the SDVG value in the parameterized field. Did not receive a 10 digit calling party number IE, or the subscription bit was not set to Y. The switch sends a release complete message indicating invalid information element.

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Final Handling Code 700: Invalid message was received on a Q.931 ICT while in the ICTCSFPP state and connected to a final announcement.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The set up message was successfully processed. An invalid message was received while the ICT was connected to an SCS final announcement.

Final Handling Code 701: Invalid message was received on a Q.931 ICT while in the ICTCSFPP state and connected to a CCPAS announcement.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The setup message was successfully processed. An invalid message was received while the ICT was connected to an SCS PAS announcement.

Final Handling Code 702: Mandatory Q.931 codeset 6 Information Elements (IEs) were not found in a setup message which requires codeset 6.

- (a) **Ineffective Attempt Type:** Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This code occurs when the ICT is Q.931. A setup message was received. The codeset 6 IES were missing from a setup message which require codeset 6 IEs. The switch sends a release complete message indicating that mandatory IEs were missing.

Final Handling Code 703: A mandatory user entered code Information Elements (IEs) was missing from a Q.931 setup message.

- (a) **Ineffective Attempt Type:** Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This code occurs when the Incoming trunk (ICT) is Q.931. A setup message was received. A mandatory UEC IE was not found in the setup message. The switch sends a release complete message indicating that mandatory IEs were missing.

Final Handling Code 704: The setup includes an invalid NSF test call service.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk sent out the release complete message. The setup message includes an invalid Network Service Facility (NSF) information element. The trunk is idled in memory.

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Final Handling Code 710: ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: CFL treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** INUP
- (c) **Description:** An address-complete message is received; call is in the waiting-for-answer state. A backward release is received, indicating call failure treatment is required. The call failed, and a backward release is initiated by the ICT.

Final Handling Code 711: ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: VCA treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** INUP
- (c) **Description:** An address-complete message is received; call is in waiting-for-answer state. A backward release is received with the cause indicating VCA treatment is required. The call is failed, and a backward release is initiated by the ICT.

Final Handling Code 712: ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: Reorder tone treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** INUP
- (c) **Description:** An address-complete message is received; the call is in waiting-for-answer state. A backward release is received with the cause value indicating reorder tone treatment is required. The call is failed; a backward release is initiated by the ICT.

Final Handling Code 713: ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: busy tone treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** INUP
- (c) **Description:** An address-complete message is received; the call is in waiting-for-answer state. A backward release is received with the cause value indicating busy-tone treatment is required. The call is failed; a backward release is initiated by the ICT.

Final Handling Code 714: ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: No circuit available treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** INUP
- (c) **Description:** An address-complete message is received; the call is in waiting-for-answer state. A backward release is received with the cause indicating no-circuit-available treatment is required. The call is failed; a backward release is initiated by the ICT.

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Final Handling Code 715: ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: Reorder Announcement treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** INUP
- (c) **Description:** An address-complete message is received; the call is in a waiting-for-answer state. A backward release is received with the cause value indicating reorder-announcement treatment is required. The call is failed; a backward failure release is initiated by the ICT.

Final Handling Code 716: ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: Reorder Announcement (Network Management) treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** INUP
- (c) **Description:** An address complete message is received and is in a waiting-for-answer state. A backward release is received with the cause value indicating reorder-announcement (network management) treatment is required. The call is failed; a backward failure release is initiated by the ICT.

Final Handling Code 727: Translation of the Originating Line Identity (OLI) found a Local NODAL [Software Defined Network (SDN) or MEGACOM] or a Local NODAL Phase 5 (SDN or MEGACOM) OLI value and have received either a primary mode Service Activation Parameter (SAP) or an Application Transport Parameter (APP) with one or more of the following Generic Operation Parameters (GOPS) - ACCESS Identification (ID), Trunk Rating Number (TRN), Far End Numbering Plan Area (FENPA), or ACCESS DOMAIN ID. The requirement is to final handle such a call when received on a Local Carrier Connect (LCC) trunk with Far End AT&T Local Network (FEALN) set.

- (a) **Ineffective Attempt Type:** BNF
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on an incoming call received on an ISUP LCC trunk. Translated the OLI. Received either a primary Service Activation Parameter (SAP), or an Application Transport Parameter (APP), with one or more of the following GOPS - ACCESS ID, TRN, FENPA, ACCESS DOMAIN ID. The switch final handled the call using a release message with a cause of temporary failure.

Final Handling Code 728: ISUPICT received in the Initial Address Message (IAM) from a Local Carrier Connect (LCC) Incoming Trunk (ICT) with Far End AT&T Local Network (FEALN) set. A primary mode Service Activation Parameter (SAP) and a Application Transport Parameter (APP) using ACCESS DOMAIN Identification (ID), in its Generic Operation Parameter (GOP). call was received on an ISUP LCC trunk with

- (a) **Ineffective Attempt Type:** BNF
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when a FEALN set. Processed the IAM up to the Service Activation Parameter (SAP). SAP parameter indicated primary mode and the Application Transport Parameter (APP) had ACCESS DOMAIN ID in its GOP. The switch final handled the call using a release with a cause of temporary failure.

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Final Handling Code 729: Intelligent network call processing encountered either a revert to Present Mode of Operation (PMO) request from the Segmentation Directory (SD) or an error while communicating with an SD on a call with a non-routeable number.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when a call was received with a DSD6 Subtype. Received a response back from the Sedmentation Database. The call encountered either a revert to Present Mode of Operation request from the SD or an error while communicating with an SD on a call with a non-routable number. The switch terminates the call.

Final Handling Code 737: Call not final handled timeout after sending an FAC message on a Q.931 OGT.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Type Type:** Q.931
- (c) **Description:** Q.931 OGT was hunted; COT was received, and an FAC message was sent to the ATP node. No response was received to the FAC message received from the ATP node. The call was not finaled. A call irregularity trap is printed with a cause of "timer expiry". Call is not given ATP feature.

Final Handling Code 738: 4ESS switch has received an invalid ANCR request from the ATP node due to improper formatting; or, the node has failed and sent an ANCR fail indication to the switch.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The call is connected end-to-end and is monitored by the SCU/ATP node. The ATP node sends an ANCR request for a Partition/Redirection that the switch found invalid because of improper formatting; or, the node sends a message with an indication that a Partition/Redirection cannot be performed.

Final Handling Code 739: Trunk hunt failed to seize an ANCR provisioned trunk to the adjunct.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The call is established end-to-end and is monitored by the SCU/ATP node. The ATP node sends a FAC message requesting an ANCR Partition/Redirection, but the trunk hunt for a trunk to the adjunct failed. The switch pegs an ANCR fail count, prints a call irregularity trap and sends a message to the node that the Partition/Redirection failed.

Final Handling Code 740: Network path hunt failure while trying to reserve a path between an incoming trunk and the P1 SCS port.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** An incoming trunk is busy to a CR. P1 and P2 (Q.931 SCS ports) were hunted. The switch fails to reserve a network path between the incoming trunk and the P1 SCS Port being used as the outgoing trunk. The switch deserts the P1 and P2 ports and continues the call without accessing the AT&T Trigger Platform (ATP).

Final Handling Code 741: Failed to send an FAC message from the 1A/1B to the ATP node (ring down or buffer full).

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** Hunted P1 and P2 (Q.931 SCS Ports) trying to get this call to the AT&T Trigger Platform (ATP). An FAC message was built and tried to send it to the ATP node. The FAC message could not be sent to the ATP node because the ring was down or the buffer was full. The call was NOT finaled. The Q.931 SCS Ports were cleared out of the CR and the call continued without the ATP feature.

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Final Handling Code 742: Received a release complete or disconnect message with an improperly formatted codeset 6 facility IE with operation value = invoke ATP on a Q.931 OGT (CPA) B1 while busy to a CR.

- (a) **Ineffective Attempt Type:** Q.931 Parity Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** Received a CPA response to a SETUP (with Announcement Set Monitor indication) on B1 with RELease COMplete or DISConnect message. Invalid format INVOKE ATP FAC IE in REL COM message. The Q931 OGT (CPA B1) was disposed and the trunk idled.

Final Handling Code 743: ATP/ANCR Partition operation failed.

- (a) Ineffective Attempt Type: Path Hunt Failure (PHF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A B2 SETUP message was received from the adjunct in response to the Partition request. The Partition could not be accomplished in the 4ESS switch. The B2 and B1 were cleared, and the ATP node notified.

Final Handling Code 744: The ATP/ANCR Redirection operation failed.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A PROG, ALERT, or CONN message was received on B1 in response to a Redirection request. The Redirection could not be accomplished. The B1 trunk was cleared and the ATP node notified.

Final Handling Code 746: Timed out in wait_atp state while waiting for a response from the adjunct.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** An FAC response message was sent to the ATP node requesting that a SETUP message be sent on B1 to the adjunct. Timeout while waiting for a CALL PROC or subsequent message from the adjunct. Trunk B1 was cleared and a FAC fail message was sent to the ATP node.

Final Handling Code 747: A DISC message was received from the adjunct while in a wait_atp (waiting for response from the adjunct).

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A request was sent to the adjunct for a Partition or Redirection operation. A clearing message was received from the adjunct, so the B1 trunk was cleared to the adjunct and failure reported to the ATP node.

Final Handling Code 748: While waiting for a response from the adjunct for an ANCR Port of Redirect request, a REL message was received.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** An ANCR Port or Redirect request was sent to the adjunct. A clearing message was received while waiting for a positive response from the adjunct. The B1 was cleared and a request fail message was sent to the ATP node.

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Final Handling Code 749: An REL COM message was received while waiting for a response from the adjunct for a Partition or Redirect request.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A request for a Partition or Redirect operation was sent to the adjunct. A clearing message was received while waiting for a positive response from the adjunct. The B1 was cleared and an ANCR failure response was sent to the ATP node.

Final Handling Code 750: A REST message was received while waiting for a positive response from the adjunct.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** An ANCR Partition or Redirect was sent to the adjunct. A clearing message was received while waiting for a response from the adjunct. B1 was cleared, and an ANCR failure response was sent to the ATP node.

Final Handling Code 752: An ATP-ANCR Merge operation failed.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Facility message was received requesting an ANCR Merge request. The ANCR Merge could not be accomplished in the 4ESS switch because of invalid trunk states or no idle SCU Ports were available. The call was not finaled. A Facility message was sent to the adjunct rejecting the request. The call continued to be processed without the ANCR message.

Final Handling Code 753: 4ESS switch connection to ATP node requested to be final handled.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error
- (b) **Trunk Type:** Q.931
- (c) **Description:** The ATP node requested the call be final handled. The 4ESS switch used the E&M treatment specified by the ATP node. The outgoing trunk was Q.931 with Type of Trunk set to ATP.

Final Handling Code 754: 4ESS switch connection to ATP node requested to be final handled.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The ATP node requested the call to be final handled. The 4ESS switch used the E&M treatment specified by the ATP node.

Final Handling Code 755: A release complete message was received in the outgoing setup state with a cause that indicates reorder.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931, and the setup message was sent. A release complete message was received which indicates reorder. The outgoing trunk goes idle, and the incoming trunk will be given a Reorder Announcement (ROA).

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Final Handling Code 756: A release complete message was received in the outgoing setup state; the cause indicates user busy.

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931, and the setup message was sent on the outgoing trunk. A release complete message was received which indicates user busy. The outgoing trunk goes idle, and the incoming trunk will be given busy tone.

Final Handling Code 757: A release complete message was received in the outgoing setup state; the cause indicates vacant code.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931, and the setup message was sent on the outgoing trunk. A release complete message was received which indicates vacant code. The outgoing trunk goes idle and the incoming trunk will be given vacant code announcement.

Final Handling Code 758: A release complete message was received in the outgoing setup state with a cause which indicates PBX network congestion or another anomaly.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931; and the setup message has been sent. A release complete message is received which indicates PBX network congestion or another anomaly. The outgoing trunk is idled, and the incoming trunk is given reorder announcement.

Final Handling Code 759: A restart message was received while trying to set up a call on a Q.931 outgoing trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931; the setup message is sent on the outgoing trunk. A restart message is received. The outgoing trunk is idled.

Final Handling Code 760: A Q.931 outgoing trunk timed-out while waiting for answer on a data call.

- (a) **Ineffective Attempt Type:** Waiting Answer Time-out (WAT)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931; and the call is a data call—64 kb/s or greater. An alert or progress message is received on a Q.931 outgoing trunk. The connect message is not received. The incoming trunk is given reorder announcement and a disconnect is sent on the outgoing trunk.

Final Handling Code 761: Final trial failure occurred on a broadband call on a Q.931 outgoing trunk.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk was Q.931, and the call was a broadband call or trunk maintenance. A Q.931 outgoing trunk was hunted, but a setup message was not sent. A setup message was received on the outgoing trunk. The incoming trunk will be given reorder announcement. Process the incoming call on the outgoing trunk.

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Final Handling Code 762: The limit on the number of Q.931 outgoing trunk rehunts to be used on a call has been reached.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931, and the call cannot be a broadband call. A Q.931 outgoing trunk was hunted, and an error occurred which would normally cause a rehunt but the outgoing trunk rehunt limit has been reached. The outgoing trunk will be disposed of properly, and the incoming trunk will receive reorder announcement.

Final Handling Code 763: A setup message was returned on a Q.931 outgoing trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931, and a setup message was sent out on the Q.931 outgoing trunk. The setup message was returned. A new outgoing trunk will be hunted.

Final Handling Code 764: A service message was received on a Q.931 outgoing trunk in the setup state.

- (a) **Ineffective Attempt Type:** Backward Failure (BFL)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931, and a trunk was hunted. A service message was received that put the trunk out of service or in the maintenance state. A new outgoing trunk will be hunted.

Final Handling Code 765: A service message was received on a Q.931 outgoing trunk in the setup state. The call was finalized.

- (a) **Ineffective Attempt Type:** Backward Failure (BFL)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A setup message was sent out on the Q.931 outgoing trunk, and a progress, alert, or connect message was received. A service message was received that put the trunk out of service or in the maintenance state. The incoming trunk receives reorder announcement, and the outgoing trunk is put out of service or MB.

Final Handling Code 766: Disconnect the message with an invalid CS6 facility information element (IE) and operation equals "redirect" or "billing" received while trying to setup a call.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The Q.931 OGT hunted and setup a message and sent a call proceeding alert; a progress or connect message might be received. Disconnect message received with invalid CS6 facility IE, and operation equals "redirect" or "billing". A release message was sent to reject the "redirect" or "billing" operation.

Final Handling Code 767: More than 64 octets of MAUD was received in a message from the PBX.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming or outgoing trunk must be Q.931. Either a setup or a connect message was received from the PBX. The Message Associated User Data (MAUD) was greater than 64 octets and could not be stored in the call register annex. The call will be continued but the MAUD will be dropped.

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Final Handling Code 768: An invalid network specific facilities information element was received in the setup message.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk must be Q.931 and a setup message has been received. The network specific facilities information element was found to be invalid. A facility reject will be sent to the PBX, and the call will be continued.

Final Handling Code 769: A message was returned on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk must be Q.931. A setup message has been received; an alert or progress message was returned. The trunk will be put high and wet.

Final Handling Code 770: "Address Incomplete (ADI)" was received on CCIS outgoing international call.

- (a) **Ineffective Attempt Type:** Address failure (ADF)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** An address incomplete (ADI) message was received for an outgoing CCIS international call. This response may also be used to indicate an unauthorized call. A clear forward (CLF) is sent on the CCIS outgoing trunk; then the trunk is idled. If the incoming trunk is CCIS, an ADI message is sent. If the incoming trunk is E&M, it is connected to the international vacant code (IVC) announcement.

Final Handling Code 771: Call Failure (CFL) is received on an outgoing CCIS international call.

- (a) **Ineffective Attempt Type:** CCIS Call Failure (CFL)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** A call failure (CFL) message was received for an outgoing CCIS international call after the initial address message (IAM) was sent. A clear forward message is sent for the outgoing CCIS trunk, and the trunk is then idled. If the incoming trunk is CCIS, CFL is returned for the trunk. If the incoming trunk is E&M, it is connected to an "International Failed in Foreign Country (IFF)" announcement.

Final Handling Code 772: National Switching Congestion (NSC) is received for outgoing CCIS international call.

- (a) **Ineffective Attempt Type:** Network Switching Congestion (NSC)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** A NSC message was received for an outgoing CCIS international call after the initial address message (IAM) was sent. A "Clear Forward" (CLF) message is sent for the outgoing CCIS trunk; and then the trunk is idled. If the incoming trunk is CCIS, an NSC message is sent for the trunk. If the incoming trunk is E&M, it is connected to an "International Failed in Foreign Country (IFF)" announcement.

Final Handling Code 773: "National Trunk Congestion (NTC)"

- (a) **Ineffective Attempt Type:** CCIS national congestion (NCS)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** A NTC message was received for an outgoing CCIS international call after the IAM was sent. A CLF message is sent for the outgoing CCIS trunk; then the trunk is idled. If the incoming trunk is CCIS, an NTC message is sent for the trunk; then the trunk is idled. If the incoming trunk is E&M, it is connected to the "International No Circuit (INC)" announcement.

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Final Handling Code 774: Subscriber Station Busy (SSB)

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** A subscriber station busy (SSB) message was received for an outgoing CCIS international call after the IAM was sent. A CFL message is sent for the outgoing CCIS trunk; then the trunk is idled. If the incoming trunk is CCIS, a SSB message is sent for the trunk; the trunk is then idled. If the incoming trunk is E&M, it is connected to busy tone.

Final Handling Code 775: Vacant National Number (VNN) received for outgoing CCIS international call.

- (a) **Ineffective Attempt Type:** CCIS outgoing address failure (ADF)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** A "Vacant National Number (VNN)" message was received for an outgoing CCIS international call after the initial address message (IAM) was sent. A clear forward (CLF) message is sent for the outgoing CCIS trunk; then the trunk is idled. If the incoming trunk is CCIS, a VNN message is sent for the trunk; then the trunk is idled. If the incoming trunk is E&M, it is connected to the "International Vacant Code (IVC)" announcement.

Final Handling Code 776: Reset received for outgoing CCIS international call.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** A "Reset" message was received for an outgoing CCIS international call during the waiting-for-answer state. A "Clear Forward" (CLF) message is sent for the outgoing CCIS trunk; then the trunk is idled. If the incoming trunk is CCIS, a "reset" message is sent; then the trunk is idled. If the incoming trunk is E&M, it is connected to the "International Reorder (IRO)" announcement.

Final Handling Code 777: No call registers available for ISDN User Part (ISUP) continuity check request.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A "Continuity Check Request" message was received on an idle ISUP trunk. A call register was required, but was not available. A release message with a cause of switching equipment congestion will be sent to the caller. When the caller returns a "Release Complete" message, the trunk will be idled.

Final Handling Code 778: A continuity check request test timed-out while waiting for a release message.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A test call received a continuity message on the test and then timed for a release message. The timer expired before the release message was received. The trunk will go high and wet with an immediate reset.

Final Handling Code 779: An incoming SDN DSD call, delete digit 1 and store 10, received with the first digit not equal to a one.

- (a) **Ineffective Attempt Type:** Pulsing Error (PSE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The called party number was received (DP, MF, or DTMF, at least three digits). The first digit was not a one, and the call type data indicates this is a "1+NPA" SDN call (SDNPLAN in TSG characteristics is PLUS). The incoming call is connected to vacant code announcement.

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Final Handling Code 780: Only KP+ST received on equal access signaling (EAS) call; ANI Failure Action (AFA) says kill the call.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF
- (c) **Description:** The automatic number identification (ANI) portion of the digits received consisted of KP-ST. When the EAS field of the TSG characteristics is "E," the call is allowed to continue. If it is "A," the AFA is checked to determine subsequent action. If AFA is Route and Record (RR), the call is allowed to continue — see FHC 781 description. If it is KA or KW, the call is connected to Reorder Announcement (ROA). This FHC trap message printed.

Final Handling Code 781: Only KP+ST is received on EAS call; AFA data says route and record.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF
- (c) **Description:** The automatic number identification (ANI) portion of the digits received consisted of KP-ST. If the EAS field of the TSG characteristics is "E," the call is allowed to continue. If it is "A," the AFA is checked to determine subsequent action. If AFA is RR, the call is allowed to continue, and this FHC trap message is printed.

Final Handling Code 782: Only KP+ST is received on an international equal access signaling (EAS) call; AFA data says "kill the call".

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF
- (c) **Description:** The automatic number identification (ANI) portion of the digits received on an international attempt consisted of KP-ST. When the EAS field of the TSG characteristics is "E," the call is allowed to continue. If it is "A," the ANI Failure Action (AFA) is checked to determine subsequent action. If AFA is Route and Record (RR), the call is allowed to continue — see FHC 783 description. If it is KA or KW, the call is connected to Reorder Announcement (ROA), and this FHC trap message is printed.

Final Handling Code 783: Only KP+ST is received on an international equal access signaling (EAS) call; AFA says route and record.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF
- (c) **Description:** The ANI portion of the digits received on an international attempt consisted of KP-ST. If the EAS field of the TSG characteristics is "E," the call is allowed to continue. If it is "A," the AFA is checked to determine subsequent action. If AFA is RR, the call is allowed to continue, and this FHC trap message is printed.

Final Handling Code 784: Illegal call type for redirected number.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Any domestic incoming trunk, that is MF, DP, CCIS, ISUP....
- (c) **Description:** The previously stored number in the trap dumps of the PCP service code. For SACDS or FAXSF, redirect routing digit translated to a call type is illegal for call redirection. The call is final handled with vacant national number treatment.

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Final Handling Code 785: Information digits translator says kill incoming EAS call.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF
- (c) **Description:** The information digits table was indexed with the first two digits following the first KP signal received. This resulted in an action code of 2 being obtained, causing the ANI Failure Action (AFA) to be checked for subsequent action. If AFA is RR or KA (not KW), the incoming FGD trunk is given a post address wink (PAW) and then connected to the Reorder Announcement (ROA) — the originating end office has no indication that the call failed. If, however, the AFA is KW, an offhook for the duration of the announcement is sent, which causes a failure indication in the originating end office.

Final Handling Code 786: Information digits translator says automatic number identification (ANI) is bad on incoming equal access signaling (EAS) calls — AFA indicates kill call action.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF
- (c) **Description:** The information digits table was indexed with the first two digits following the first KP signal received and an action code of 3 was obtained. This causes the ANI Failure Action (AFA) to be checked for subsequent action. If AFA is KA, the incoming FGD trunk is given a post address wink (PAW), and the caller is connected to the Reorder Announcement (ROA). If AFA is KW, the caller is connected to the announcement, but an off hook for the duration of the announcement is sent, rather than a wink. This causes a failure indication in the originating end office.

Final Handling Code 787: Information digits translator says automatic number identification (ANI) is bad on an incoming equal access signaling (EAS) call. The AFA data says to route and record call.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF
- (c) **Description:** The information digits table was indexed with the first two digits following the first KP signal received and an action code of 3 was obtained. This causes the ANI Failure Action (AFA) to be checked for subsequent action. If AFA is Route and Record (RR), the call is allowed to proceed, but a billing record is made.

Final Handling Code 788: Incoming equal access signaling (EAS) call abandoned.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** MF
- (c) **Description:** A disconnect (abandon) was received on an incoming trunk after EAS sequence was recognized. The incoming trunk was returned to idle.

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Final Handling Code 789: AN incoming equal access signaling (EAS) international call received an MF digit report while sending second start dial (SSD) wink.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** The first stage EAS digits were received, indicating this to be an international outbound call. An MF digit report was received while sending the SSD wink on the incoming trunk. The incoming trunk was connected to reorder tone.

Final Handling Code 790: Equal access signaling (EAS) international call received a mutilated, MF, digit report while sending a second start dial (SSD) wink.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** The first stage EAS digits, indicating this to be an international outbound call, were received. A mutilated MF digit report was received from the MF receiver. The incoming trunk was connected to reorder tone.

Final Handling Code 791: An automatic number identification (ANI), received on an incoming EAS call, is not required—call completed.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF
- (c) **Description:** The complete EAS sequence, including ANI, was received on the incoming EAS call. The ANI is not required for this call; no AMA record is made. The incoming call was completed.

Final Handling Code 792: Call timed-out waiting for answer.

- (a) **Ineffective Attempt Type:** Waiting Answer Time-out (WAT)
- (b) **Trunk Type:** Applies to all incoming and outgoing trunk types
- (c) **Description:** The waiting for answer time-out (WAT) occurred while the call was in the waiting-for-answer state. For a voice call, the 4ESS Switch plays an existing announcement. For a data call, the ISUP trunk sends the release message with cause value = 19. Q931 trunk sends the disconnect message with cause value = 19.

Final Handling Code 793: An equal access signaling (EAS) call was illegally addressed to a codeline number.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** The EAS sequence received on the incoming MF trunk is addressed to codeline number, which is illegal with EAS protocol. The incoming trunk is connected to the vacant code announcement.

Final Handling Code 794: Equal access signaling (EAS) address time-out on incoming EAS call.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF
- (c) **Description:** An EAS address time-out occurred on an incoming EAS call after the EAS information and ANI digits were received. The incoming trunk was connected to reorder tone. Timing is specified on ODA input form 406C (See TG-4).

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Final Handling Code 795: A reset message is received on an Integrated Services Digital Network (ISDN) User Part (ISUP) call that is on queue for a call register.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The call goes on queue for a call register, and a reset message is received on the incoming trunk. The call is removed from the call register queue; a release complete message is sent, and the trunk is idled.

Final Handling Code 796: A reset message was received on an ISDN User Part (ISUP) call that was busy to a call register.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The initial address message was processed, and the call register was populated. A reset message was received on the incoming trunk. A release complete message will be sent, and the trunk will be idled.

Final Handling Code 797: While call is in wait for the answer state and still busy to CR, the wait-for-answer timer expired.

- (a) **Ineffective Attempt Type:** Waiting Answer Time-out (WAT)
- (b) **Trunk Type:** Any domestic trunk
- (c) **Description:** The ICT was performing wait-for-answer timing when the timer expired. The ICT was connected to the reorder announcement.

Final Handling Code 798: Incoming equal access signaling (EAS) or CAMA call was blocked after answer supervision was received due to network call denial (NCD).

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:** Incoming MF or CAMA trunk
- (c) **Description:** The incoming digits were collected, and a query was sent to the NCD database. A response message from the NCD/Network Control Point indicated the call to be from a delinquent caller and should be blocked. The call was terminated after answer supervision was received. The incoming trunk was connected to the NCD announcement.

Final Handling Code 799: Incoming equal access signaling (EAS) or CAMA call was blocked before answer supervision was received due to network call denial (NCD).

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:** Incoming MF or CAMA trunk
- (c) **Description:** The incoming digits were collected, and a query was sent to the NCD database. A response message from the NCD/Network Control Point indicated the call to be from a delinquent caller and should be blocked. The call was terminated before answer supervision was received. The incoming trunk was connected to the NCD announcement.

Final Handling Code 800: Translation failure for CPA terminating routing number.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Q931
- (c) **Description:** New routing from the CPA to terminate the call was received. The digit translation of the CPA terminating routing number failed or returned an illegal call type. The call was terminated with a vacant code announcement.

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Final Handling Code 820: An illegal call type was received on DP or MF PBX incoming trunk.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** DP or MF PBX trunk
- (c) **Description:** An illegal call type for PBX trunks was found during digit translation. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 821: An illegal call type was received on DP or MF incoming trunk.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** DP, MF
- (c) **Description:** An illegal call type for DP or MF trunks was found during digits translations. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 822: An illegal call type was received on CAMA incoming trunk.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** CAMA
- (c) **Description:** An illegal call type for a CAMA trunk was found during digits translations. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 823: An illegal call type for a number returned from Direct Services Dialing (DSD) or the Software Defined Network (SDN) database Network Control Point (NCP)

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** An illegal call type for the number was returned from DSD or the SDN database NCP for a DSC or SDN call. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 824: An illegal call type for a CCIS incoming call was found during digits translations.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Incoming CCIS
- (c) **Description:** An illegal call type for a CCIS incoming call was found during digits translations. A vacant national number (VNN) was sent for the incoming CCIS trunk; the trunk was connected to the vacant code announcement.

Final Handling Code 826: An illegal call type for a direct-connect incoming call was found when retranslating digits in POTS domain.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Incoming MF, DP
- (c) **Description:** An illegal call type for an incoming direct-connect call was found during translation of digits into a POTS domain. The incoming was connected to the vacant code announcement.

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Final Handling Code 827: INWATS Illegal call type

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Incoming DP, MF, CCIS
- (c) **Description:** An illegal call type for an INWATS call is returned from the INWATS database. A vacant national number (VNN) message is sent if the incoming trunk is Common Channel Interoffice Switching (CCIS). If the incoming trunk is non-CCIS, the incoming trunk is connected to the vacant code announcement.

Final Handling Code 828: Illegal call type for second stage digits on a two-stage call.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA).
- (b) **Trunk Type:** DP, MF, CCIS.
- (c) **Description:** An illegal call type for a two-stage call was found when translating second stage digits in domain 81. A vacant national number (VNN) message was sent if incoming trunk was CCIS. If E&M, the incoming trunk is connected to the vacant code announcement.

Final Handling Code 829: Prefix CHI routed IW21 call to the International Switching Center (ISC). Translations returned an IRA subtype of D3RDOM, specifying the domain in which to retranslate. The retranslation yielded an invalid call type on a CCIS or ISUP ICT.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA).
- (b) **Trunk Type:** CCIS, ISUP
- (c) **Description:** Translations returned IRA subtype of D3RDOM. Translations were called again with domain D3RDOM specified. Illegal call type D3RDOM was returned. The 42ESS Switch will send RELEASE with the cause of the "unallocated number" (ISUP ICT).

Final Handling Code 830: An abandon was received on an immediate dial tone start (IDTS) incoming trunk while on dual tone multifrequency (DTMF) receiver queue.

- (a) **Ineffective Attempt Type:** Receiver Queue Abandon (RQA)
- (b) **Trunk Type:** IDTS DTMF
- (c) **Description:** An abandon was received on an IDTS trunk detecting trunk seizure and on queue for a DTMF receiver. The incoming IDTS trunk is idled with guard timing.

Final Handling Code 831: Network path hunt failed during attempt to connect incoming immediate dial tone start (IDTS) trunk to dual tone multifrequency (DTMF) receiver.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** IDTS DTMF
- (c) **Description:** A network path hunt failure occurred during an attempt to connect the incoming IDTS trunk to a DTMF receiver after detecting seizure on the incoming trunk. The incoming trunk was connected to the Reorder Announcement (ROA).

Final Handling Code 832: False start abandon is received on the incoming IDTS trunk.

- (a) **Ineffective Attempt Type:** False Start Abandon (FSA)
- (b) **Trunk Type:** DP or dual tone multifrequency (DTMF) IDTS
- (c) **Description:** An abandon was received on an incoming immediate dial tone start (IDTS) trunk while waiting for first DP or DTMF digit. The incoming trunk was idled with guard timing.

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Final Handling Code 833: Partial dial abandon is received on an incoming Immediate Dial Tone Start (IDTS) trunk while on call register queue.

- (a) **Ineffective Attempt Type:** Partial Dial Abandon (PDA)
- (b) **Trunk Type:** DP or Dual Tone Multifrequency (DTMF) IDTS
- (c) **Description:** An abandon was received on an incoming IDTS trunk while collecting DTMF digits in trunk register and on call register queue. The incoming trunk was idled with guard timing.

Final Handling Code 834: Partial dial abandon received on incoming Immediate Dial Tone Start (IDTS) trunk while collecting digits in trunk register.

- (a) **Ineffective Attempt Type:** Partial Dial Abandon (PDA)
- (b) **Trunk Type:** DP or Dual Tone Multifrequency (DTMF) IDTS
- (c) **Description:** An abandon was received on an incoming IDTS trunk while collecting DTMF digits in the trunk register. The incoming trunk was idled with guard timing.

Final Handling Code 835: Partial dial abandon received on incoming Immediate Dial Tone Start (IDTS) trunk while collecting digits in call register.

- (a) **Ineffective Attempt Type:** Partial Dial Abandon (PDA)
- (b) **Trunk Type:** DP or Dual Tone Multifrequency (DTMF) IDTS
- (c) **Description:** An abandon was received on incoming IDTS trunk while collecting DTMF digits in call register. The incoming trunk was idled with guard timing.

Final Handling Code 836: A CCIS or ISDN User Part (ISUP) outgoing trunk international transit call received an address incomplete.

- (a) **Ineffective Attempt Type:** Addressing Failure (ADF)
- (b) **Trunk Type:** CCIS, ISUP
- (c) **Description:** ISUP or CCIS outgoing trunk only. An initial address message was sent for the outgoing trunk. A backward failure release message was received with a cause of address incomplete. A release complete message will be sent on the outgoing trunk and the trunk will be idled. The caller will hear international vacant code announcement.

Final Handling Code 837: A CCIS or ISDN User Part (ISUP) outgoing trunk international transit call received call failure.

- (a) **Ineffective Attempt Type:** Call Failure (CFL)
- (b) **Trunk Type:** ISUP or CCIS outgoing trunk only
- (c) **Description:** An initial address message was sent for the outgoing trunk. A backward failure release message was received with a cause of call failure. A release complete message is sent on the outgoing trunk, and the trunk is idled. The caller hears reorder announcement.

Final Handling Code 838: A CCIS or ISDN User Part (ISUP) outgoing trunk international transit call received national switching congestion.

- (a) **Ineffective Attempt Type:** National Congestion (NCS)
- (b) **Trunk Type:** ISUP or CCIS outgoing trunk only
- (c) **Description:** An initial address message was sent on the outgoing trunk. A backward failure release message was received with a cause of national switching congestion. A release complete message will be sent on the outgoing trunk, and the trunk will be idled. The caller will hear an all circuits busy to foreign country announcement.

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Final Handling Code 839: A CCIS or ISDN User Part (ISUP) outgoing trunk international transit call received a national trunk congestion.

- (a) **Ineffective Attempt Type:** National Congestion (NCS)
- (b) **Trunk Type:** ISUP or CCIS outgoing trunk only
- (c) **Description:** An initial address message was sent on the outgoing trunk. A backward failure release message was received with a cause of national trunk congestion. A release complete message will be sent on the outgoing trunk and the trunk will be idled. The caller will hear an all circuits busy to foreign country announcement.

Final Handling Code 840: A CCIS or ISDN User Part (ISUP) outgoing trunk international transit call received subscriber set busy.

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** ISUP or CCIS outgoing trunk only
- (c) **Description:** An initial address message is sent on the outgoing trunk. A backward failure release message is received with a cause of subscriber set busy. A release complete message is sent on the outgoing trunk, and the trunk is idled. The caller hears a busy tone.

Final Handling Code 841: A CCIS or ISDN User Part (ISUP) outgoing trunk international transit call received vacant national number.

- (a) **Ineffective Attempt Type:** Addressing Failure (ADF)
- (b) **Trunk Type:** ISUP or CCIS outgoing trunk only
- (c) **Description:** An initial address message was sent on the outgoing trunk. A backward failure release message was received with a cause of vacant national number. A release complete message will be sent on the outgoing trunk, and the trunk will be idled. The caller will hear an international vacant code announcement.

Final Handling Code 845: CCIS or ISUP OGT in handling a 0/1 X CHI found conflicting prefix digits in the RDB.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** CCIS, ISUP
- (c) **Description:** CCIS OGT or ISUP IGT was hunted. Routing was successfully determined (probably OTS routing). Call type data presented a 0 or 1 and X and, perhaps, another 1 call handling instruction (CHI), but RDB contained conflicting prefix digits. The 4ESS switch sends these calls to vacant code.

Final Handling Code 846: CCIS or ISUP OGT in handling a 0/1 X 1 prefix CHI found a problem in trying to use INTL out routing category.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA).
- (b) **Trunk Type:** CCIS, ISUP
- (c) **Description:** CCIS or ISUP OGT was hunted and routing was successfully determined (probably DNHR OTS routing). Call type data presented a 3 digit (0/1 X 1) Call Handling Instruction (CHI) which tells OGT handler to use routing category 10 [international (INTL outbound)]. Existing routing category cannot be converted to routing category 10. SVOGT in trap is existing OGT routing category formed. The 4ESS Switch will send this call to vacant code.

Final Handling Code 850: Abandon received on incoming dual tone multifrequency (DTMF) wink start trunk while on origination queue for call register and DTMF receiver.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** An abandon was received on an incoming DTMF wink-start trunk while on origination queue for a call register and a DTMF receiver. The incoming trunk was idled with guard timing.

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Final Handling Code 851: Network path hunt failed during an attempt to connect Dual Tone Multifrequency (DTMF) to an incoming DTMF wink-start trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** The network path hunt failed during an attempt to connect a DTMF receiver to the incoming DTMF wink-start trunk. The incoming trunk was connected to the reorder announcement.

Final Handling Code 852: Abandon received on Dual-Tone Multifrequency (DTMF), wink-start, incoming trunk while sending the wink.

- (a) **Ineffective Attempt Type:** False Start Abandon (FSA)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** An abandon was received on the incoming DTMF wink-start trunk while sending the wink. The incoming trunk was idled with guard timing.

Final Handling Code 853: DTMF digit report received for incoming DTMF wink-start trunk while sending the wink.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER).
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** A DTMF digit report was received for the incoming DTMF wink-start trunk while sending the wink. The incoming trunk was connected to the reorder announcement.

Final Handling Code 854: Abandon received on a Dual-Tone Multifrequency (DTMF), wink-start trunk is a no-start dial from a previous glare condition.

- (a) **Ineffective Attempt Type:** No-Start Dial (NSD)
- (b) **Trunk Type:** Two-way DTMF wink start
- (c) **Description:** An abandon was received on DTMF, wink-start, two-way trunk after the 350-millisecond glare timing interval elapsed on a previous usage as an outgoing trunk. The abandon is really the end of wink from the far-end exchange. The incoming trunk is idled with guard timing.

Final Handling Code 855: A false-start abandon is received on an incoming, Dual-Tone Multifrequency (DTMF), wink-start trunk.

- (a) **Ineffective Attempt Type:** False Start Abandon (FSA)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** An abandon was received on an incoming, DTMF, wink-start trunk after sending the wink. The incoming trunk was idled with guard timing.

Final Handling Code 856: An abandon was received on an incoming, DTMF, wink-start trunk after sending the wink. The incoming trunk was idled with guard timing.

- (a) **Ineffective Attempt Type:** Partial Dial Abandon (PDA)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** An abandon was received on an incoming, DTMF, wink-start trunk during digit collection. The incoming trunk is idled with guard timing.

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Final Handling Code 858: A continuity check message could not be sent by the ISDN User Part (ISUP) outgoing trunk handler because the common network interface (CNI) ring was down.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A continuity check request message was formatted, and a request was made to send the message. The message could not be sent by the ISUP outgoing trunk handler because the CNI ring was down. The outgoing trunk will be idled.

Final Handling Code 859: A continuity check message could not be sent by the ISDN User Part (ISUP) outgoing trunk handler because there were no buffers available.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A continuity check request message was formatted, and a request was made to send the message. The message could not be sent by the ISUP outgoing trunk handler because no buffers were available. The outgoing trunk will be idled.

Final Handling Code 860: A call was retried when an initial address message was returned to the ISDN User Part (ISUP) outgoing trunk handler.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An initial address message was successfully processed and sent to the direct link node. The initial address message was returned by the direct link node. The outgoing trunk will be idled in memory, and the call will be retried.

Final Handling Code 861: A glare condition was reached on a trunk continuity check test — this side goes on with the test.

- (a) **Ineffective Attempt Type:** Glare Control (GLC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A continuity check message was successfully sent by the ISDN User Part (ISUP) outgoing trunk handler. A continuity check message was received on a trunk undergoing a continuity check. The continuity check message will be ignored, allowing the original continuity check test to proceed.

Final Handling Code 862: An unequipped circuit identification code message was received on an ISDN User Part (ISUP) outgoing trunk — will retry.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The call setup was proceeding after the ISDN User Part (ISUP) outgoing trunk handler built and sent an initial address message. An unequipped circuit identification code message was received. The far-end could not associate the IAM with an ISUP circuit. The trunk will be idled in memory, and a retry will be attempted.

Final Handling Code 863: An ISDN User Part (ISUP) outgoing trunk handler could not send an initial address message due to a Common Network Interface (CNI) problem — will retry.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully created the initial address message. The initial address message could not be sent either because all CNI buffers were full or because the ring was down. The outgoing trunk will be idled in memory, and a new outgoing trunk will be hunted.

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Final Handling Code 864: ISDN User Part (ISUP) outgoing trunk handler received an out-of-sequence or irregular message—will retry.

- (a) **Ineffective Attempt Type:** Unreasonable Signal (URS)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The call setup was proceeding according to protocol. An out-of-sequence or irregular message was received. The 3-character entry following "IFHCODE: 864" indicates the improper message. See table in Appendix for a listing of the ISUP message types. The outgoing trunk will be idled, and a rehunt will be initiated. The same trunk may be selected again.

Final Handling Code 865: ISDN User Part (ISUP) outgoing trunk handler received an initial address message on an outgoing trunk — will retry.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully built and sent an initial address message. An initial address message was received after the initial address message was sent and this 4ESS switch does not have control. A rehunt will be attempted, and the "received initial address message" will be given to the incoming trunk handler for processing.

Final Handling Code 866: ISDN User Part (ISUP) outgoing trunk handler could not send an initial address message because there are no buffers available.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully processed the initial address message. The initial address message could not be sent because all buffers for Common Network Interface (CNI) messages are in use. The outgoing trunk will be placed on high and wet timing, and the incoming trunk will get reorder announcement.

Final Handling Code 867: ISDN User Part (ISUP) outgoing trunk handler failed to find a transceiver (final attempt).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP incoming trunk handler successfully processed the initial address message. The outgoing trunk handler could not find a transceiver. The outgoing trunk will be idled and the incoming trunk will get reorder announcement.

Final Handling Code 868: ISDN User Part (ISUP) outgoing trunk handler failed to reserve a network path on the final attempt.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP incoming trunk handler successfully processed the initial address message. The outgoing trunk failed its attempt to reserve a network path on the final attempt. The outgoing trunk will be idled, and the incoming trunk will get reorder announcement.

Final Handling Code 869: ISDN User Part (ISUP) outgoing trunk handler failed to connect a transceiver to the outgoing trunk on the final attempt.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully hunted a transceiver but failed the final attempt at connecting the outgoing trunk to the transceiver. The outgoing trunk is idled and the incoming trunk will get reorder announcement.

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Final Handling Code 870: ISDN User Part (ISUP) outgoing trunk voice path assurance test time-out on the final attempt.

- (a) **Ineffective Attempt Type:** Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk successfully processed and sent an initial address message. A voice path assurance test timed-out on a second attempt. The outgoing trunk will be placed on high and wet timing, and the incoming trunk will get reorder announcement.

Final Handling Code 871: An address complete message was returned to the 1A/1B Processor while an ISDN User Part (ISUP) call was busy to a call register.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An address complete message was sent on the incoming trunk. The message was returned to the 1A/1B Processor. The incoming trunk will be placed high and wet and the call will be killed.

Final Handling Code 872: ISDN User Part (ISUP) outgoing trunk voice path assurance test timed out on first attempt.

- (a) **Ineffective Attempt Type:** Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** ISUP outgoing trunk successfully processed and sent an initial address message. A voice path assurance test timed-out. The outgoing trunk will be idled in memory, and maintenance will perform a continuity check on it.

Final Handling Code 873: An address complete message was returned on an ISDN User Part (ISUP) call in a stable state.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An address complete message was sent on the incoming trunk, and the message was returned. The incoming trunk will be placed high and wet, and the call will be killed.

Final Handling Code 874: An unequipped circuit identification code message was received on an ISDN User Part (ISUP) trunk that sent a reset and is waiting for a release complete.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A reset was sent, and the "waiting for release complete" timer was started. An unequipped circuit identification code message was received. The trunk will be maintenance disabled.

Final Handling Code 875: The ISDN User Part (ISUP) outgoing trunk handler could not send a continuity message.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully sent an initial address message and handled the continuity issue. Because the common network interface buffers were full, a continuity message could not be sent. The outgoing trunk will be placed on high and wet timing, and the incoming trunk will receive reorder announcement.

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Final Handling Code 876: The ISDN User Part (ISUP) outgoing trunk handler could not send a continuity message.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully sent the initial address message and was generating a continuity message. The continuity message could not be sent because the common network interface ring was down. The outgoing trunk will be placed on high and wet timing and the incoming trunk will receive reorder announcement.

Final Handling Code 877: The ISDN User Part (ISUP) outgoing trunk handler did not receive an address complete message before its timer expired.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully treated continuity and voice path assurance for the call. The timer expired before address complete was received. The outgoing trunk will be cleared by sending a release message, and the incoming trunk will receive reorder announcement.

Final Handling Code 878: The ISDN User Part (ISUP) outgoing trunk handler received an unreasonable message during setup.

- (a) **Ineffective Attempt Type:** Unreasonable Signal (URS)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP initial address message (IAM) was sent and other facets may have been completed. However, during setup, an unreasonable clearing message was received. The 3-character entry following IFHCODE: 878" indicates the improper message. See the table in the Appendix for a listing of the ISUP message types. A reset will be sent on the OGT, and it will be placed H&W.

Final Handling Code 879: The ISDN User Part (ISUP) outgoing trunk handler received a blocking message during setup—will retry.

- (a) **Ineffective Attempt Type:** Backward Failure (BFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The call setup was proceeding after the successful sending of an initial address message. A blocking message for the outgoing trunk was received. The outgoing trunk will be blocked, and a rehunt will be attempted.

Final Handling Code 880: Rehunt not allowed on subsequent legs for a meet-me T/C call.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** On an incoming Teleconferencing call, trunk hunt was called to find an idle outgoing meet-me trunk. Trunk hunt encountered glare or crank back and resulted in a rehunt condition. Rehunt is not allowed, and call is terminated by no circuit announcement.

Final Handling Code 881: Subsequent leg waiting for out complete not allowed when hunting for a NSC for a meet-me T/C call.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF DP CCIS
- (c) **Description:** This condition can only occur on subsequent leg call to a meet-me teleconference. First leg disconnects while second leg is waiting for out complete, resulting in the third leg going to an unstable condition; call is terminated by a recorded announcement.

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Final Handling Code 882: The ISDN User Part (ISUP) outgoing trunk handler had an initial address message returned and did not retry.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully built an initial address message. The initial address message was returned and either the call had been retried already or network management did not want it retried. The outgoing trunk will be idled in memory.

Final Handling Code 883: The ISDN User Part (ISUP) outgoing trunk handler received an initial address message on a trunk that was busy to a call register.

- (a) **Ineffective Attempt Type:** Glare Control (GLC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler was successfully built and sent an initial address message. An initial address message was received on the outgoing trunk. Since this 4ESS Switch has control, the original call goes ahead.

Final Handling Code 884: The ISDN User Part (ISUP) outgoing trunk handler received an initial address message on an outgoing trunk—the far-end 4ESS Switch has control.

- (a) **Ineffective Attempt Type:** Glare Control (GLC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully built and sent an initial address message. An initial address message was received, and this 4ESS Switch does not have control. This call has been retried once before. The outgoing trunk will be idled in memory, and the initial address message from the far-end 4ESS Switch is given to the incoming trunk handler for processing.

Final Handling Code 885: A continuity message was returned to the outgoing trunk handler for a call on the second try.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A continuity message was sent. The continuity message was returned by the ring, and the call was retried once before. The outgoing trunk will be cleared by sending a release message.

Final Handling Code 886: A continuity check request message was returned to the ISDN User Part (ISUP) outgoing trunk handler.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A continuity check request message was formatted and sent to the common network interface handler. The message was returned by the common network interface handler. The outgoing trunk will be put on high and wet timing.

Final Handling Code 887: A reset circuit message was received within the special setup state.

- (a) **Ineffective Attempt Type:** Backward Failure (BFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISDN User Part (ISUP) outgoing trunk handler had entered the special setup state. A reset message was received. A release complete message is sent, and the trunk is idled.

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Final Handling Code 888: The ISDN User Part (ISUP) outgoing trunk handler received a blocking message during setup on the final try.

- (a) **Ineffective Attempt Type:** Backward Failure (BFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The call setup was progressing after the ISUP outgoing trunk handler successfully sent the initial address message. A blocking message was received on a call that had been retried once before. The outgoing trunk will be idled and blocked.

Final Handling Code 889: A continuity message was returned to the outgoing trunk handler — will retry.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A decision on continuity was reached and a continuity message was sent. The continuity message was returned by the ring handler. The outgoing trunk will be cleared by the sending of a release message, and the call will be attempted again.

Final Handling Code 890: A group reset message was received while the ISDN User Part (ISUP) outgoing trunk is in a special setup state.

- (a) **Ineffective Attempt Type:** Backward Failure (BFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler had successfully entered a special setup state. A group reset message was received. The trunk will be idled in memory.

Final Handling Code 891: An ISDN User Part (ISUP) outgoing trunk continuity recheck failed to receive a loopback acknowledge message.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk successfully processed and sent a continuity check request message. A loopback acknowledge message was not received. The outgoing trunk will be idled.

Final Handling Code 892: Direct connect or switched access OUTWATS customer attempted call to a nonpurchased NPA.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** This condition occurs only for direct connect or switched access OUTWATS customers. The caller attempted an OUTWATS call to a WATS area outside of the subscribed bands. An out-of-band announcement is sent to the caller.

Final Handling Code 894: An OUTWATS customer attempted a non-subscribed intrastate call.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** DP, MF
- (c) **Description:** Translations of the received digits indicated that an OUTWATS customer attempted a non-subscribed intrastate OUTWATS call. The incoming trunk was connected to the out-of-band announcement.

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Final Handling Code 895: All Stable Call Accumulating Registers (SCARs), are found to be busy during a call setup for an equal access signaling (EAS) OUTWATS call.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** All SCARs were found busy after the translation of the received digits on an incoming EAS OUTWATS call. The incoming trunk was connected to the reorder announcement.

Final Handling Code 896: Equal access signaling (EAS) ANI failure on an incoming EAS OUTWATS call.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF
- (c) **Description:** The 10-digit ANI was not received for the incoming EAS OUTWATS call. The incoming trunk was connected to the signaling information failure (SIF) announcement.

Final Handling Code 897: An illegal digit was found in an ISDN User Part (ISUP) initial address message.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The incoming trunk is CCS7. An initial address message was received and successfully loaded into a call register. An illegal digit was received. A release message will be sent with a "cause of address" incomplete.

Final Handling Code 898: Call type was invalid for CCS7 incoming trunk.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The incoming trunk is CCS7. Digits received in initial address message determine routing. Translations returned a call type not allowed for a CCS7 trunk. A release message will be sent with a cause of unallocated number.

Final Handling Code 899: An ISDN User Part (ISUP) outgoing trunk handler received an initial address message on an outgoing trunk — glare — Continuity Check Request (CCR) test is stopped; process initial address message.

- (a) **Ineffective Attempt Type:** Glare Control (GLC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A continuity check message was successfully sent on an outgoing trunk. An initial address message was received on the trunk that was doing a continuity check test. The outgoing trunk will be idled, and the incoming trunk handler will be given the initial address message so that the call can proceed.

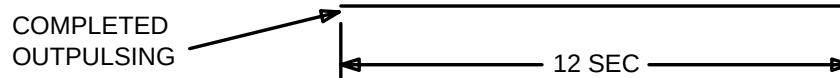
Final Handling Code 900: Call denied due to ICT FEN-CALLTYPE call denial screening.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** The far-end network denied access to the called number. A reorder announcement is sent to MF and DP trunks, and a CCIS call failure to CCIS trunks.

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Final Handling Code 901: The 4ESS Switch office doing access tandem function signaling to an International Carrier (INC) failed to receive post addressing acknowledgment wink in the prescribed time.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Timing Requirements:**



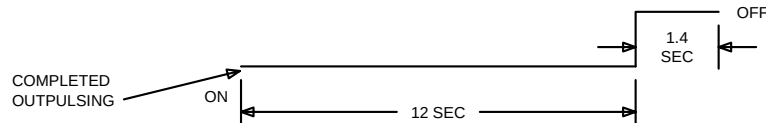
- (d) **Description:** This condition occurs only in a 4ESS Switch office performing access tandem functions; the office did not receive post-address acknowledgment wink. A new announcement is sent to MF and DP trunks and reset to CCIS trunks.

Final Handling Code 902: The 4ESS Switch office doing access tandem function signaling to an International Carrier (INC) received an invalid signal while waiting post-addressing acknowledgment wink.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** This condition occurs only in a 4ESS Switch office performing access tandem functions; while waiting for post-address acknowledgment wink, received an invalid signal from outgoing trunk. A new announcement is sent to MF and DP trunks and reset to CCIS trunks.

Final Handling Code 903: The 4ESS Switch office, doing access tandem function signaling to an International Carrier (INC), received a steady off-hook signal while waiting for post-addressing acknowledgment wink.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Timing Requirements:**



- (d) **Description:** The condition occurs only in a 4ESS Switch office that, when performing access tandem functions, receives a steady off-hook signal while waiting for post-addressing acknowledgment wink.

Final Handling Code 904: The 4ESS Switch office, doing an access tandem function, timed-out after 4 seconds of completing outpulsing.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** The 4ESS Switch, after completing outpulsing, failed to receive an answer within the prescribed time. Outgoing trunks are idled with guard timing, and incoming trunks are given no wink from carrier announcement.

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Final Handling Code 905: The ISDN user part (ISUP) outgoing trunk handler could not send an initial address message because the common network interface ring is down.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully processed the initial address message. The initial address message could not be sent because the common network interface ring was down. The outgoing trunk will be placed on high-and-wet timing, and the incoming trunk will receive reorder announcement.

Final Handling Code 906: The ISUP outgoing trunk handler failed to connect a transceiver to the outgoing trunk on the first try.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP outgoing trunk handler successfully hunted the transceiver, failed its first attempt to connect a transceiver to the outgoing trunk, and is idled in memory.

Final Handling Code 907: The ISUP outgoing trunk handler failed to reserve a network path on the first attempt.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP incoming trunk handler successfully processed the initial address message and failed its attempt to reserve a network path. The outgoing trunk is idled in memory, and the call is reattempted.

Final Handling Code 908: An unequipped circuit identification code message was received on an ISUP outgoing trunk — no retry.

- (a) **Ineffective Attempt Type:** Signaling Trouble (SGT)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The call setup was proceeding after the ISUP outgoing trunk handler built and sent an initial address message. The call has been retired once before. An unequipped circuit identification code message was received. The outgoing trunk is idled in memory.

Final Handling Code 909: The ISDN User Part (ISUP) outgoing trunk received a restricted routing category—far-end network class prohibits reception.

- (a) **Ineffective Attempt Type:** Integrity Check Failure (IKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP incoming trunk handler successfully processed the initial address message. The outgoing trunk handler discovered the routing category is restricted. The outgoing trunk will be idled, and the incoming trunk will receive reorder announcement.

Final Handling Code 910: Permanent signal time-out on an immediate dial tone start (IDTS) incoming trunk.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** IDTS
- (c) **Description:** After seizure detection, dial tone was returned on the incoming IDTS trunk, and a dual tone multifrequency (DTMF) receiver was connected. A 15-second partial-dial time-out occurred while waiting to receive a DTMF or DP digit. The incoming trunk was connected to a reorder tone.

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Final Handling Code 911: Permanent signal time-out on an "immediate dial tone start (IDTS)" incoming trunk while on the call register queue.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** IDTS
- (c) **Description:** A 15-second partial dial time-out occurred on an incoming IDTS trunk while the trunk was collecting digits and was on queue for a call register. The incoming trunk was connected to reorder tone.

Final Handling Code 912: Partial dial time-out on incoming immediate dial tone start (IDTS) trunk while collecting digits in trunk register.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** IDTS
- (c) **Description:** A 15-second partial dial time-out occurred on an incoming IDTS trunk while collecting dual tone multifrequency (DTMF) digits in the trunk register. The incoming trunk was connected to reorder tone.

Final Handling Code 913: More than ten digits were received on an incoming, immediate-dial-tone-start (IDTS) trunk while on queue for call register.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** IDTS
- (c) **Description:** More than ten dual tone multifrequency (DTMF) digits were received on an incoming IDTS trunk while on queue for a call register. The trunk register capacity is limited to ten digits. The incoming trunk was connected to the reorder announcement.

Final Handling Code 914: More than ten digits were received on an incoming immediate dial tone start (IDTS) trunk; the call register was not seized.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** IDTS
- (c) **Description:** More than ten digits were received on an incoming IDTS trunk while collecting dual tone multifrequency (DTMF) digits in the trunk register. A call register was not seized, and the trunk register capacity is limited to ten digits. The incoming trunk was connected to the reorder announcement.

Final Handling Code 915: Illegal dual tone multifrequency (DTMF) digit is received on an immediate dial-tone-start (IDTS) trunk while on call register queue.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** IDTS
- (c) **Description:** An illegal DTMF digit (A,B,C, or D) was received on an incoming IDTS trunk while on a call register queue. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 916: Illegal dual tone multifrequency (DTMF) digit was received on an "immediate dial tone start (IDTS)" trunk, not on call register queue.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** IDTS
- (c) **Description:** An illegal DTMF digit was received on an incoming IDTS trunk while not on a call register queue. The incoming trunk was connected to the vacant code announcement.

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Final Handling Code 917: Illegal digit found during PBX prefix screening.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS)
- (c) **Description:** An illegal DTMF digit (*, #, or 0 in first digit position) was found during PBX prefix screening. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 918: Illegal DTMF (* or #) is received after the third digit on an incoming IDTS trunk while on a call register queue.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** IDTS
- (c) **Description:** An illegal DTMF digit (* or #) was received after the third digit on an incoming IDTS trunk while on a call register queue. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 919: An illegal DTMF digit is received on an incoming IDTS trunk that is not on a call register queue.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** IDTS
- (c) **Description:** An illegal DTMF digit was received after the third digit on an incoming IDTS trunk while not on a call register queue. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 920: Immediate Dial Tone Start (IDTS) call register queue for a call register.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** IDTS
- (c) **Description:** The IDTS call register queue was found full when an attempt was made to queue for a call register while collecting dual tone multifrequency (DTMF) digits on an incoming IDTS trunk. The incoming trunk was connected to the reorder announcement.

Final Handling Code 921: Partial dial time-out on immediate dial tone start (IDTS) or dual tone multifrequency (DTMF) wink start on an incoming trunk occurred during digit collection.

- (a) **Ineffective Attempt Type:** Partial dial time-out (PDT)
- (b) **Trunk Type:** IDTS or DTMF wink start
- (c) **Description:** A 15-second time-out interval occurred since the last digit was received on an incoming IDTS or DTMF wink start trunk while collecting digits in the call register. The incoming trunk was connected to reorder tone.

Final Handling Code 922: Permanent signal time-out on an incoming DTMF wink start trunk.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** A 10-second time-out interval occurred with no digits received after call register seizure, connection of DTMF receiver, and returning wink start on incoming DTMF wink start trunk. The incoming trunk was connected to reorder tone.

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Final Handling Code 923: An illegal dual tone multifrequency (DTMF) digit (A, B, C, or D) in the call register.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS) or DTMF wink start
- (c) **Description:** An illegal DTMF digit (A, B, C, or D) was found in the call register after digits were received on an IDTS or DTMF wink start incoming trunk. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 924: An illegal DTMF (*) is received after the third digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS) or DTMF wink start
- (c) **Description:** An illegal DTMF digit (*) was detected after the third digit was received on an incoming IDTS or DTMF wink start trunk. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 925: The "Pound" digit (end of dialing) was received before sufficient digits were received for translation.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS) or Dual Tone Multifrequency (DTMF) wink start
- (c) **Description:** A pound digit, signifying end of dialing, was received before receiving the sufficient number of digits for translation on an incoming IDTS or DTMF wink start trunk. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 926: More than 18 DTMF digits received on IDTS or DTMF wink start trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** IDTS or DTMF wink start
- (c) **Description:** More than 18 DTMF digits were received on an incoming IDTS or DTMF wink start trunk. Call register capacity is limited to 18 digits. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 927: An illegal dual Tone multifrequency (DTMF) digit

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** An illegal DTMF digit (leading zero, *, or #) was found in the call register during the screening of the first three digits (PBX prefix). The incoming trunk was connected to the vacant code announcement.

Final Handling Code 928: An invalid two-stage call type for a DTMF incoming call was found during translation.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS) or DTMF wink start
- (c) **Description:** An invalid two-stage call type for DTMF was found during translation of digits in the call register. The incoming trunk was connected to the vacant code announcement.

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Final Handling Code 929: An invalid voice storage system (VSS) call type for a DTMF incoming call was found during translation.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS) or DTMF wink start
- (c) **Description:** An invalid VSS call type for DTMF was found during the translation of the received digits. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 930: Unacceptable digit count for code-line call.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS) or DTMF wink start
- (c) **Description:** An unacceptable digit count for a code-line call type was detected during the translation of the received digits. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 931: Unacceptable digit count was received on an immediate dial tone start (IDTS) or dual tone multifrequency (DTMF) trunk.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** IDTS or DTMF wink start
- (c) **Description:** An unacceptable digit count was detected by translations after end-of-dialing (DTMF pound digit) was received on the IDTS or DTMF wink start incoming trunk. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 932: An unacceptable digit count for a routing data block (RDB) call-type.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS) or Dual Tone Multifrequency (DTMF) wink start
- (c) **Description:** An unacceptable digit count for a RDB call type was detected by translations after end-of-dialing was set. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 933: An invalid call type for a dual tone multifrequency (DTMF) incoming trunk.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** Immediate Dial Tone Start (IDTS) or DTMF wink start
- (c) **Description:** An invalid call type was detected during translations for incoming a DTMF call. The incoming trunk was connected to the vacant code announcement.

Final Handling Code 934: The ISDN user part (ISUP) incoming trunk could not send the second start dial message because the common network interface ring was down.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The outgoing trunk received a second start dial message. The common network interface ring was down so the incoming trunk handler could not send the second start dial message. The trunk will be put high and wet.

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Final Handling Code 935: The ISDN user part (ISUP) incoming trunk could not send the second start dial message because the common network interface buffers were full.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The common network interface message buffers were full; therefore, the incoming trunk handler could not send the second start dial message. The trunk will be put high and wet.

Final Handling Code 937: An address complete message could not be sent on an ISDN user part (ISUP) incoming trunk because the common network interface buffers were full.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Common network interface buffers were full; therefore, the incoming trunk handler could not send the address complete message. The trunk will be put high and wet.

Final Handling Code 939: An address complete message could not be sent on an ISDN user part (ISUP) incoming trunk because the common network interface ring was down.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The common network interface ring was down; therefore, the incoming trunk handler could not send the address complete message. The trunk will be put high and wet.

Final Handling Code 940: Feature Group C (FGC) call on a feature group D (FGD) only trunk subgroup (TSG). The ANI failure action is route and record.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** Any equal access only trunk
- (c) **Description:** A dialed number was received successfully. Action code of 0 was returned from II table. Trunk subgroup (TSG) is D. Call is routed.

Final Handling Code 941: An answer could not be sent on a mass announcement system call on an ISDN user part (ISUP) incoming trunk because the common network interface ring was down.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An answer was reported to the incoming trunk handler. The incoming trunk handler could not send the answer message because the common network interface ring was down. The trunk will be put high and wet.

Final Handling Code 942: Feature group C (FGC) call on a FGD only TSG. Call killed with Reorder Announcement (ROA).

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** Any equal access only trunk
- (c) **Description:** A dialed number was received successfully. Action code of 0 was returned from II table. Trunk subgroups (TSGs) EAD is R. AFA is not RR; therefore, the caller is given Reorder Announcement (ROA).

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Final Handling Code 943: An answer could not be sent on a mass announcement system call on an ISDN user part (ISUP) incoming trunk because the common network interface buffers were full.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Answer was reported to the incoming trunk handler. The incoming trunk handler could not send the answer message because the common network interface buffers were full. The trunk will be put high and wet.

Final Handling Code 944: ISUP Incoming Handler received release message without a cause parameter.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** For an ISUP incoming trunk, an initial address message (IAM) was received and processed. A release message without a cause parameter is received on the trunk. The 4ESS Switch sends a release complete on the incoming trunk, then idles the trunk.

Final Handling Code 945: An address complete message could not be sent on a public announcement system or a mass announcement system call on an ISDN user part (ISUP) incoming trunk because the common network interface ring was down.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The incoming trunk handler could not send the address complete message because the common network interface ring was down. The trunk will be put high and wet.

Final Handling Code 946: On an SDN call with SDN Call Forwarding feature routing digits in the form 8YY not received from NCP.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All Incoming
- (c) **Description:** This code is restricted to SDN calls with the SDN Call Forwarding feature. The sent query to 2DSA/NCP received a response with incorrect data. The call is terminated.

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Final Handling Code 947: An address complete message could not be sent on a public announcement system or a mass announcement system call on an ISDN user part (ISUP) incoming trunk because the common network interface message buffers were full.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The incoming trunk handler could not send the address complete message because the common network interface message buffers were full. The trunk will be put high and wet.

Final Handling Code 949: A call was denied because another carrier attempted to use a routing category that is reserved for the AT&T network.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The initial address message was received on an ISDN user part (ISUP) incoming trunk, and a call register was seized. A combination of routing category and far-end network class indicates the call must be denied. The trunk will be idled after a release message is sent to the caller.

Final Handling Code 950: First trial scanned continuity/polarity failure on Dual Tone Multifrequency (DTMF) one-way outgoing trunk.

- (a) **Ineffective Attempt Type:** Continuity/Polarity Test Failure (CFP)
- (b) **Trunk Type:** One-way outgoing DTMF wink start
- (c) **Description:** An incoming seizure was received on this DTMF one-way outgoing trunk after it was selected by the 4ESS Switch but before the 4ESS Switch sent a seizure out. This was the first trial. The outgoing trunk was placed on high and wet timing, and a rehunt for another outgoing trunk was attempted.

Final Handling Code 951: Final trial scanned continuity/polarity failure on dual tone multifrequency (DTMF) one-way outgoing trunk.

- (a) **Ineffective Attempt Type:** Continuity/Polarity Test Failure (CFP).
- (b) **Trunk Type:** DTMF wink start one-way outgoing
- (c) **Description:** An incoming seizure was received on this DTMF one-way outgoing trunk after it was selected by the 4ESS Switch but before the 4ESS Switch sent a seizure out. This was the final trial. The outgoing trunk was placed on high and wet timing; the incoming trunk was connected to the reorder announcement.

Final Handling Code 952: First trial glare on dual tone multifrequency (DTMF) wink start two-way trunk.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** DTMF wink start two-way
- (c) **Description:** An incoming seizure was found pending during an outgoing call setup for DTMF wink start two-way trunk. This was the first trial. The outgoing trunk was placed into the idle glare state to await the incoming seizure, and a rehunt was attempted to complete the call.

Final Handling Code 953: Final trial glare on dual tone multifrequency (DTMF) wink start two-way trunk.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** DTMF wink start two-way
- (c) **Description:** An incoming seizure was found pending during an outgoing call setup for DTMF wink-start, two-way trunk. This was the final trial. The outgoing trunk was placed in the idle glare state to await the incoming seizure. If incoming trunk was E&M, it was connected to the reorder announcement; if the incoming trunk was CCIS, a call failure (CFL) message was sent.

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Final Handling Code 954: Dual tone multifrequency (DTMF) transmitter queue is full during an outgoing call setup attempt.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** The DTMF transmitter queue was found full during an attempt to set up an outgoing call. The seized outgoing trunk was returned to idle. If the incoming trunk was E&M, it was connected to the reorder announcement; if the incoming trunk was CCIS, a national switching congestion (NSC) message was sent.

Final Handling Code 955: Network path hunt failed during incoming trunk to Dual Tone Multifrequency (DTMF) outgoing trunk connect attempt.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Outgoing DTMF wink start
- (c) **Description:** The network path hunt failed to reserve a network path between the incoming trunk and an outgoing DTMF wink-start trunk; the outgoing trunk was returned to idle. If the incoming trunk was E&M, it was connected to the reorder announcement; if the incoming trunk was CCIS, a national switching congestion (NSC) message was sent.

Final Handling Code 956: First trial wink-start time-out on a dual tone multifrequency (DTMF) wink start outgoing trunk.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** Outgoing DTMF wink start
- (c) **Description:** A valid wink-start signal was not received before the first trial 5 to 5.3-second wink-start time-out interval occurred after the seizure sequence was completed for the outgoing DTMF wink start trunk. The outgoing trunk was idled with guard timing. This code is not reported to final handling.

Final Handling Code 957: The final trial wink-start time-out on a dual tone multifrequency (DTMF) wink-start outgoing trunk.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** Outgoing DTMF wink start
- (c) **Description:** A valid wink-start signal was not received within the 10 to 10.3-seconds wink-start time-out interval. This time-out interval occurred after the seizure sequence was completed for the outgoing DTMF wink-start trunk. The outgoing trunk was idled with guard timing. If the incoming trunk was E&M, it was connected to the reorder announcement; if the trunk was CCIS, a call failure (CFL) message was sent.

Final Handling Code 958: First trial failure to get on-hook or wink start signal on one-way dual tone multifrequency (DTMF) outgoing trunk.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** One-way DTMF outgoing
- (c) **Description:** The 350 to 510-millisecond no-start-dial time-out interval elapsed after the one-way DTMF outgoing trunk was seized. The on-hook portion of the wink-start signal was not received. The outgoing trunk was idled with guard timing, and a rehunt was attempted. This code is not reported to final handling.

Final Handling Code 959: Final trial failure to get on-hook of wink-start signal on one-way dual tone multifrequency (DTMF) outgoing trunk

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** One-way DTMF outgoing
- (c) **Description:** The 350 to 510-millisecond no-start-dial time-out interval elapsed after the one-way DTMF outgoing trunk was seized. The on-hook portion of the wink-start signal was not received. The outgoing trunk was idled with guard timing. If the incoming trunk was E&M, it was connected to the reorder announcement; if the incoming trunk was CCIS, a call failure (CFL) message was sent.

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Final Handling Code 960: First trial glare detected on two-way Dual Tone Multifrequency (DTMF) trunk, far-end controls.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** Two-way DTMF wink start
- (c) **Description:** The 350 to 510-millisecond glare time-out interval occurred on a two-way DTMF trunk during the outgoing call setup. The two-way trunk was seized, and only the off-hook portion of the wink-start signal was received. The two-way trunk was released for the incoming call attempt from the far-end, and a rehunt is attempted for another outgoing trunk.

Final Handling Code 961: Final trial glare detected on two-way Dual Tone Multifrequency (DTMF) trunk, far-end controls.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** Two-way DTMF wink start
- (c) **Description:** The 350 to 510-millisecond glare time-out interval occurred on two-way DTMF trunk during outgoing call setup. This was final trial. The two-way trunk was seized, and only the off-hook portion of the wink start signal was received. The two-way trunk was released for the incoming call attempt from the far end. If the incoming trunk was E&M, it was connected to the reorder announcement; if the incoming trunk was CCIS, a call failure (CFL) message was sent.

Final Handling Code 962: Glare detected on two-way Dual Tone Multifrequency (DTMF) trunk, expect far-end backdown.

- (a) **Ineffective Attempt Type:** Glare Control (GLC)
- (b) **Trunk Type:** Two-way DTMF wink start
- (c) **Description:** The 350 to 510-millisecond glare time-out interval occurred on a two-way DTMF trunk during outgoing call setup. The two-way trunk was seized, and only the off-hook portion of the wink-start signal was received. Since this end controls glare on this trunk, the far end is expected to back down—connect DTMF receiver and return on-hook—within an additional 3.65 to 3.81-seconds timing interval (see Final Handling Code 963).

Final Handling Code 963: A start dial time-out on the two-way dual tone multifrequency (DTMF) trunk was not received; this office controls glare.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** Two-way DTMF wink start
- (c) **Description:** The 350 to 510-millisecond glare time-out interval occurred on the two-way DTMF trunk during an outgoing call setup. The two-way trunk was seized, and only the off-hook portion of the wink-start signal was received. Since this end controls glare on this trunk, an additional 3.65 to 3.81-seconds time-out interval occurred without detecting an on-hook from the far end. The outgoing trunk was placed on the high and wet timing list. If the incoming trunk was E&M, it was connected to the reorder announcement; if the incoming trunk was CCIS, a call failure (CFL) message was sent. (See related Final Code 962.)

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Final Handling Code 964: Network path hunt failed to connect the dual tone multifrequency (DTMF) transmitter to the DTMF outgoing trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** After seizure of the DTMF outgoing trunk and the reception of the wink start, the hunt for a network path between a DTMF transmitter and the outgoing trunk failed. The outgoing trunk was idled with guard timing. If the incoming trunk was E&M, it was connected to the reorder announcement; if the incoming trunk was CCIS, a national switching congestion (NSC) message was sent.

Final Handling Code 965: First trial unexpected stop (off-hook) from the dual tone multifrequency (DTMF) outgoing trunk while outputting digits.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** A first trial unexpected stop (off-hook) was received on the DTMF outgoing trunk while outputting digits. The outgoing trunk was idled with guard timing, and a rehunt for another outgoing trunk was attempted.

Final Handling Code 966: Final trial unexpected stop (off-hook) from the dual tone multifrequency (DTMF) outgoing trunk while outputting digits.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** DTMF wink start
- (c) **Description:** A final unexpected stop (off-hook) was received on the DTMF outgoing trunk while outputting digits. The outgoing trunk was idled with guard timing. If the incoming trunk was E&M, it was connected to the reorder announcement; if the incoming trunk was CCIS, a call failure (CFL) message was sent.

Final Handling Code 967: An ISDN User Part (ISUP) initial address message contains an invalid bearer capability parameter.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The initial address message was received on an ISUP trunk and a call register was seized. One of the fields in the bearer capability parameter was invalid. The trunk will be idled after a release message is sent to the caller.

Final Handling Code 969: An ISDN User Part (ISUP) initial address message contained an invalid called address.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The called party address consisted of more than 18 digits or contained an invalid digit. The initial address message was received on an ISUP trunk and a call register was seized. The called party address in the initial address message was invalid. The trunk will be idled after a release message is sent to the caller.

Final Handling Code 970: The call has visited too many switches; probably shuttle routing.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISDN user part (ISUP) initial address message was received on the incoming trunk. Too many initial address messages were sent out to set up the call. The problem is probably caused by routing that gets into a loop between at least two offices. The call will be killed, and a release message with a cause of Vacant National Number (VNN) will be sent to the caller.

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Final Handling Code 971: A transceiver could not be connected for the continuity check on an ISDN user part (ISUP) incoming trunk.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An initial address message was received on an ISUP trunk, a call register was seized, and a transceiver was hunted. The transceiver could not be connected. The trunk will be idled after a release message is sent to the caller.

Final Handling Code 973: No transceivers are available for the continuity check on an ISDN User Part (ISUP) incoming trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An initial address message was received on an idle ISUP trunk, and a call register was seized. Continuity check was required on an ISUP 2-wire circuit, but no transceivers were available. The trunk will be idled after a release message is sent to the caller.

Final Handling Code 975: A voice path assurance loop could not be set up for an ISUP 4-wire trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An initial address message was received on an idle ISUP trunk, and a call register was seized. A voice path assurance loop could not be established. The trunk will be idled after a release message is sent to the caller.

Final Handling Code 977: Maintenance busy checks indicate that the trunk is locked out.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An initial address message was received on an idle ISDN user part (ISUP) trunk, and a call register was seized. The trunk was marked "maintenance busy," and trunk maintenance decided the call should not go through. The trunk will be blocked.

Final Handling Code 979: No ISDN User Part (ISUP) call register queue slots available for this call.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An initial address message was received on an idle ISUP trunk. The call needed to go on queue for an ISUP call register but the queue was full. The trunk will be idled after a release message is sent to the caller.

Final Handling Code 985: An ISDN user part (ISUP) trunk timed out while waiting for a release complete message.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The switch sent a release message, and the release complete timer was started. The timer expired before the release complete message was received. The trunk will be placed high and wet.

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Final Handling Code 986: A group reset message was received on an ISDN user part (ISUP) call that was on queue for a call register.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The call went on queue for a call register. A group reset message was received on the incoming trunk. The call will be removed from the queue, and the trunk will be idled.

Final Handling Code 987: A group reset message was received on an ISDN user part (ISUP) call that was busy to a call register.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The initial address message was processed, and the call register was populated. A group reset message was received on the incoming trunk. The trunk will be idled.

Final Handling Code 988: Continuity was received on an ISDN user part (ISUP) call that is waiting to play an announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The 4ESS Switch was waiting for continuity so an announcement could be played. Continuity was received, and the announcement will be played.

Final Handling Code 989: No Generic Operation Parameter (GOP) received for Remote Adjunct Call Handling (REACH) handoff - Call continues.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The RII parameter indicates that this is a REACH handoff call. All optional parameters have been processed. No GOP parameter is received to convey the necessary information for a REACH handoff call. Processing of the IAM continues without adjunct access. The call is not final handled.

Final Handling Code 990: No GOP in ISUP IAM for a REACH handoff call - the call is killed.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity
- (b) **Trunk Type:** ISUP
- (c) **Description:** ISUP ICT receives an IAM indicating a REACH handoff call. All optional parameters have been processed. No GOP was received in the IAM. An announcement was played or release backward depending upon the override treatment specified in the ODA.

Final Handling Code 993: An ISDN user part (ISUP) incoming trunk was on queue for a call register when a release message was received.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A call was placed on queue for a call register, but the caller was disconnected. The appropriate disconnect sequence was executed and the trunk was idled.

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Final Handling Code 995: An ISDN user part (ISUP) incoming trunk was busy to a call register when a release message was received.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The initial address message was successfully processed, but the caller was disconnected. The appropriate disconnect sequence was executed, and the trunk was idled.

Final Handling Code 997: An ISDN user part (ISUP) incoming trunk timed out while waiting for continuity.

- (a) **Ineffective Attempt Type:** Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The initial address message was successfully processed, and continuity timing was started. The continuity timer expired before the continuity message was received. The trunk was idled after a release message is sent to the caller.

Final Handling Code 999: A continuity failure occurred on an ISDN User Part (ISUP) incoming trunk that was on queue for a call register.

- (a) **Ineffective Attempt Type:** Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A call was placed on queue for a call register. A continuity message with a status of fail was received. The trunk goes high and wet with no immediate reset.

Final Handling Code 1000: The capabilities required to complete a service assist or handoff are not available at the AAS/HAS.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the call is attempting to do a service assist or handoff. The call is routed to a AAS/HAS and the AAS/HAS does not have the required capabilities to complete the assist or handoff. The switch sends an ISUP release message with a cause of "user busy" to the OAS.

Final Handling Code 1001: Continuity check failed on an ISDN user part (ISUP) incoming trunk that was waiting for continuity.

- (a) **Ineffective Attempt Type:** Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The initial address message or continuity check request was successfully processed; continuity timing was started, and a continuity message with a fail status was received. The incoming trunk goes high and wet with no immediate reset.

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Final Handling Code 1002: An unexpected message was received on an ISUP incoming trunk attached to a call register.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A call register was seized and initialized. An unexpected message was received on the ISDN user part (ISUP) incoming trunk. A reset signal is sent on the incoming trunk, the disconnect sequence is executed on the outgoing trunk; then both trunks are idled.

Final Handling Code 1003: Call is final handled when it exhausts the carriers in the MCT table.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** Any
- (c) **Description:** On an MCT call at originating AT&T switch (OAS) (i.e. international outbound call including the traffic to world zone one country), the digits were translated and the call type was determined. An overflow carrier required to route the call is missing from the MCT table. The 4ESS Switch passes CR to final handling and cancels the call. A "Domestic No Circuit" announcement is sent.

Final Handling Code 1004: An unexpected message was received on an idle ISDN user part (ISUP) trunk or an ISUP trunk on queue for a call register.

- (a) **Ineffective Attempt Type:** Incoming Unreasonable Signal (IUR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP trunk is idle or a call is on queue for a call register. An unexpected message is received on the ISUP trunk. A reset signal is sent on the incoming trunk; the disconnect sequence is executed on the outgoing trunk; then both trunks are idled.

Final Handling Code 1005: An unexpected continuity message was received on an ISDN user part (ISUP) incoming trunk.

- (a) **Ineffective Attempt Type:** Incoming Unreasonable Signal (IUR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A call register has been seized and initialized, and a continuity message is not expected or has already been received. A continuity message is received. A reset signal is sent on the incoming trunk; the disconnect signal is sent on the incoming trunk; the disconnect sequence is executed on the outgoing trunk; then both trunks are idled.

Final Handling Code 1006: The 4ESS Switch doing the originating toll switch (OTS) function; dynamic non-hierarchical (DNHR) cancel control was found applicable.

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Call will be canceled due to the network management originating toll switch function DNHR.

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Final Handling Code 1007: The 4ESS Switch is doing the OTS function; no reroute trunk is found; replace RDB was in effect.

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:** MF, DP, CCIS
- (c) **Description:** The 4ESS Switch office, while performing DNHR OTS functions, found no available trunk; and the replace regular routing data block mode was in effect. Call will be canceled.

Final Handling Code 1008: Code report by trunk hunt, when doing OTS, VTS, or TTS function for DNHR call, detected looping on TTSI-RDB combinations.

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** More than two TTSI-RDB combinations are encountered for the same call, indicating a round-robin routing condition.

Final Handling Code 1009: AN illegal number substitution call type is found when performing the Dynamic Non-Hierarchical Routing (DNHR) Via Toll Switch (VTS) function.

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** ISUP, CCIS incoming trunk
- (c) **Description:** When performing the DNHR VTS function, the digit reception program found the call to be a number substitution call type (DSDC, CCIS-INWATS, and others). This is not allowed when performing the DNHR VTS function. A CCIS crankback (CBK) is sent to the originating toll switch (OTS).

Final Handling Code 1010: The call is final handled when it exhausts the carrier in the originating carrier and terminating country pair (OCTCP) table.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** DFLT
- (c) **Description:** For this condition to occur, an incoming trunk subgroup (TSG) must have a FAI populated. Routing is found in the OCTCP table, and no routes to primary or overflow FAIS are available. The call is terminated.

Final Handling Code 1011: DNHR Selective Dynamic Overload Control (D-SDOC) is in effect on the outgoing trunk group—the 4ESS Switch is functioning as a DNHR Originating Toll Switch (OTS).

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** Any incoming trunk
- (c) **Description:** Trunk hunt found D-SDOC in effect on the outgoing trunk group while the 4ESS Switch was functioning as a DNHR OTS. The call is canceled, and National Trunk Congestion (NTC) is sent on the incoming trunk.

Final Handling Code 1014: TC of RPI derived by trunk hunt does not match TC derived by class of service.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** Any AT&T Intertoll
- (c) **Description:** This code occurs when outgoing trunk selection begins. A mismatch occurs between COS TC and TC of RPI for CSCI of call. The switch continues CSCR routing using default CSCI=0.

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Final Handling Code 1015: An invalid CSCI was derived or received. Error was detected during trunk hunt.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** Any AT&T Intertoll
- (c) **Description:** This code occurs when outgoing trunk selection begins. An out of range CSCI value is detected. The switch continues CSCR routing using default CSCI=0.

Final Handling Code 1016: The 4ESS Switch, functioning as a DNHR Terminating Toll Switch (TTS), found a routing error which indicates an attempt to re-enter the DNHR network.

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** ISUP, CCIS incoming trunk
- (c) **Description:** Digit translations or trunk hunt found a terminating toll switch index (TTSI) in a call-type word or routing data block word while functioning as a DNHR TTS. This is invalid at a DNHR TTS. A CCIS Crankback (CBK) is sent on the incoming trunk.

Final Handling Code 1017: The 4ESS Switch functioning as a DNHR Via Toll Switch (VTS) failed to find a routing data block for a direct route to Originating Toll Switch (OTS) with load set period equal to zero.

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** ISUP, CCIS incoming trunk
- (c) **Description:** This final handling code is restricted to CCIS incoming trunks when the 4ESS Switch is functioning as a DNHR VTS. Digit translations found a TTSI in a call-type word or routing data block word. This results in an invalid RDBI (0) when used with load set period equal to zero (as required at DNHR VTS). A CCIS Crankback (CBK) is sent on the incoming trunk.

Final Handling Code 1018: The 4ESS Switch, functioning as a DNHR Via Toll Switch (VTS), failed to find a routing DNHR in a hierarchical routing data block.

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** ISUP, CCIS incoming trunk
- (c) **Description:** This final handling code is restricted to CCIS incoming trunks when the 4ESS Switch is functioning as a DNHR VTS. Trunk hunt failed to find the required DNHR routing information (TTSI) in the hierarchical routing data block obtained from digit translations. A CCIS crankback (CBK) is sent on the incoming trunk.

Final Handling Code 1019: The 4ESS Switch functioning as a DNHR Via Toll Switch (VTS) found all engineered direct routes busy or direct routes found failed to pass the trunk reservation test.

- (a) **Ineffective Attempt Type:** Via Node Congestion (VNC)
- (b) **Trunk Type:** ISUP, CCIS incoming trunk
- (c) **Description:** This final handling code is restricted to CCIS incoming trunks when the 4ESS Switch is functioning as a DNHR VTS. A trunk hunt found all engineered direct DNHR routes either all busy or (for RTNR) not any had more than 10 percent of its trunks idle. A CCIS crankback (CBK) is sent on the incoming trunk.

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Final Handling Code 1020: A DNHR selective trunk reservation (DSR) was received on the outgoing trunk while the 4ESS Switch was functioning as a DNHR Via Toll Switch (VTS).

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** A DNHR DSR was received on the outgoing trunk while the 4ESS Switch was functioning as a DNHR VTS. Network management caused crankback of the call to the OTS. A Clear Forward (CLF) message is sent on the outgoing trunk, and a DSR is sent on the incoming trunk. If hard to reach (HTR) kind of DSR was received on the outgoing trunk, a HTR DSR is sent on the incoming trunk.

Final Handling Code 1021: DNHR Selective Dynamic Overload Control Cancel (DSC) is received for the outgoing trunk — the 4ESS Switch is functioning as a DNHR Originating Toll Switch (OTS) or Terminating Toll Switch (TTS).

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** The 4ESS Switch, functioning as a DNHR OTS or TTS, has received a DSC for the outgoing trunk. A CCIS Clear Forward (CLF) is sent on the outgoing trunk. If CCIS National Trunk Congestion (NTC) is sent on the incoming trunk, No Circuit Announcement (NCA) is sent on DP or MF incoming trunk.

Final Handling Code 1022: DSC is received for the outgoing trunk — the 4ESS Switch is functioning as a DNHR VTS.

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** The 4ESS Switch functioning as a DNHR VTS has received a DSC for an outgoing trunk. A CCIS CLF is sent on the outgoing trunk. A CCIS DSC is sent on the incoming trunk. If HTR DSC was received on the outgoing trunk, an HTR DSC is sent on the incoming trunk.

Final Handling Code 1023: Outgoing trunk crankback (CBK) received — the 4ESS Switch functioning as a DNHR Via Toll Switch (VTS).

- (a) **Ineffective Attempt Type:** Dynamic Node Failure (DNF)
- (b) **Trunk Type:** CCIS outgoing trunk
- (c) **Description:** The 4ESS Switch, functioning as a DNHR VTS, has received a crankback (CBK) for the outgoing trunk. A CCIS Clear Forward (CLF) message is sent on the outgoing trunk. A CCIS CBK is sent on the incoming trunk. If hard to reach (HTR) CBK was received on the outgoing trunk, an HTR CBK is sent on the incoming trunk.

Final Handling Code 1024: International outgoing trunk hunt found a no-circuit condition for a RCC-data call, and DCMS/ASSET-dynamic load control (DLC) is active for data calls on the outgoing route.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** Any international trunk
- (c) **Description:** Digit translations are completed, and the outgoing trunk hunt was started. ASSET (per-call-control) had DLC control active at data level (not total-traffic level), and no idle outgoing trunk could be found. The 4ESS Switch gives the incoming trunk the appropriate no-circuit (NCA) clearing treatment.

Final Handling Code 1025: An invalid call type was produced by digit translations for an interim SAFER/ADCR alternate number.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The original call attempt failed or was redirected. An alternate number for interim SAFER/ADCR was found. Translations for this alternate number produced an illegal call type for interim SAFER/ADCR. The incoming side of the call is cleared. The outgoing side has already been cleared at this point.

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Final Handling Code 1026: A mandatory information element was missing in a facility message.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A setup message was successfully sent. A facility message was received with a mandatory information element missing. A status will be sent to the PBX.

Final Handling Code 1027: The 4ESS Switch, acting as the RTNR OAS, failed to find a TSG list for DSN in the call type word.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** The incoming trunk marked busy to CR. Digit translations found the DSN CT trunk hunt had started. The TG list was not found at an OAS. The call is sent to vacant code announcement.

Final Handling Code 1028: The 4ESS Switch, using RTNR routing, failed to find an OGT.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** The incoming trunk is marked busy to a CR. Digit translations found a DSN CT trunk hunt in progress. Either no idle trunks to DSN failed to find a via, or TCAP signaling between the OAS and TAS failed when a via was needed. Call was sent to no circuit announcement.

Final Handling Code 1029: When the 4ESS Switch was doing RTNR routing, it found invalid/inconsistent ODA routing data. The OGT state vector indicates fail point — see pident TRANRTNR.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** The incoming trunk is marked busy to CR. Digit translations found the DSN call type word. Trunk hunt was started but could not be completed. Invalid/inconsistent ODA routing data was found. The outgoing state vector indicates a fail point in TRANRTNR. The call was sent to no circuit announcement.

Final Handling Code 1030: The 4ESS Switch, acting as RTNR VAS, failed to find a TSG list for NSN.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** The incoming trunk is marked busy to a CR. A trunk hunt was started using the NSN from the ICT IAM or if during RTNR transition from DNWR, the translation of digits. When doing RTNR VAS function, a TSG list was not found. The call was sent to vacant code announcement.

Final Handling Code 1031: Invalid call type detected for routing an RTNR call via SAFER control.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** Digit translations for a RTNR call was performed, and trunk hunt was called to find an idle circuit. The SAFER control routine detected an invalid call type word for calling a trunk hunt routine. The call was sent to vacant code announcement.

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Final Handling Code 1032: Egress busy crankback. RTNR SAFER controlled call

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** The RTNR call was routed to a terminating 4ESS Switch for egress to the subscriber. All egress routes were found to be busy. The call was cranked back to the originating 4ESS Switch to try a different terminating 4ESS Switch from which the subscriber can be reached—either via direct connect or local office.

Final Handling Code 1033: All circuits busy for SAFER routing via multiple routing treatment translator (MRTT) translations.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** Digit translations are OK, and a trunk hunt is in progress. All circuits in all routes in MRTT are found busy. The call is sent to the no-circuit announcement.

Final Handling Code 1034: Invalid Service Identity Index (SII) on an RTNR call.

- (a) **Ineffective Attempt Type:** Integrity Check Failure (IKF)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** The directory switch number was found, and the hunt for an OGT begun. The SII, derived from the COS information, is invalid. Trunk maintenance IMA is called. An IMA trap message is printed — dumping TC, Type Origin, Type Destination, SST, and DNST. The call is not killed.

Final Handling Code 1035: Timeout waiting for a message after a call proceeding message has been received on a CPA B1 outgoing trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent, and a call proceeding message was received. Another message should follow but none did. A disconnect message was sent.

Final Handling Code 1036: An invalid clearing message was received on a Q.931 OGT (CPA B1) while busy to a CR.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The Q.931 OGT was hunted; in the CPA_CUT_THRU OGT state, the setup message was sent; and the progress message was received. The OGT was idled and release complete or restart acknowledgement message may have been sent.

Final Handling Code 1037: Timeout after sending a setup message on a Q.931 OGT with no adjunct logical address (for both 1st and 2nd timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

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Final Handling Code 1038: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 15 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1039: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 14 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT; but no response was received to the setup message sent. OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1040: The OGT found by trunk hunt for an ISUP required call is not ISUP, INUP, or Q.931.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** ISUP, CCIS
- (c) **Description:** The trunk hunt found an OGT and linked the OGT TR to a CR. The OGT trunk hunt found for the call was not an ISUP, INUP, or Q.931 circuit. The call was sent to a no circuit available announcement.

Final Handling Code 1041: An error is reported by OGT on a cut-through call at an access tandem. A non-ISUP OGT was selected.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP, CCIS, DTMF, Q.931
- (c) **Description:** The OGT was linked to a CR; digit translations were completed; and a trunk hunt found an outgoing route. On a cut-through call at an access tandem, a non-ISUP OGT was selected. The ICT gets a no-circuit-to-carrier announcement, and the OGT is idled.

Final Handling Code 1048: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 13 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1049: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 12 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. An OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

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Final Handling Code 1050: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 11 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1051: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 10 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1052: A Q.931 setup message requested too many nonallowed facilities in a Network Specific Facilities (NSF) Information Element (IE).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A Q.931 setup message was received on an idle trunk. A network specific facilities information element requested too many (>3) nonallowed facilities. A release complete message with a cause of facility rejected will be sent.

Final Handling Code 1053: A Q.931 setup message contained too many Network Specific Facilities (NSF) Information Elements (IE).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk is Q.931. A Q.931 setup message was received on an idle trunk. Too many (>2) NSF IEs were present. A release complete message with a cause of facility rejected will be sent.

Final Handling Code 1054: A setup message was received on a Q.931 trunk from a conversant with invalid information in the facility IE.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The codeset-6 facility-information element contained invalid information or was missing some information. A release complete message is sent to the conversant with cause = 100—invalid information element contents. The ICT is idled.

Final Handling Code 1055: A setup message, received on a Q.931 trunk from a conversant, was missing the mandatory facility IE.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The setup message has been received on a Q.931 ICT and is being parsed. The mandatory codeset 6 facility information element could not be found in the setup message. A release complete message was sent to the conversant with cause = 96—mandatory IE missing. The ICT is idled.

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Final Handling Code 1056: The mandatory facility IE is missing when a facility message is received in the setup state on a conversant trunk

- (a) **Ineffective Attempt Type:** Q.93 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A facility message was received in the setup state on a conversant trunk. The codeset 6 facility IE was not found in the message. A status message was sent with a cause of "mandatory information element missing." The call is not finaled.

Final Handling Code 1057: Improperly formatted facility IE in the facility message received in the setup state on a conversant trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A facility message was received in the setup state on a conversant trunk. An improperly formatted facility information element was found in the facility message. A facility status message was sent with a cause of "reject component."

Final Handling Code 1058:

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q931
- (c) **Description:** A setup message for a Q931 incoming trunk was received. A BILLING NUMBER IE was found to have an invalid field assignment. The 4ESS responds with a release complete message with a cause value indicating "Invalid IE Contents".

Final Handling Code 1059:

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q931
- (c) **Description:** A setup message was received for a Q931 incoming trunk. A FACILITY IE was found but was not readable. The 4ESS Switch responds with a release complete message with a cause value indicating "Invalid IE Contents".

Final Handling Code 1060: A channel negotiation request was received on a trunk not in the same Routing Data Block (RDB) as the original trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A call proceeding message was received with a valid negotiated channel ID. The negotiated trunk or channel ID is not in the same RDB as the original trunk. A release complete message will be sent on the negotiated channel with a cause of incompatible destination (88).

Final Handling Code 1061: A channel negotiation request was received for a channel ID whose Trunk Scanner Number (TSN) is invalid.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A call proceeding message was received with bit "E" set in the header indicating a negotiated channel request. The negotiated channel was invalid. A release complete message will be sent on the negotiated channel with a cause of identified channel does not exist (82).

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Final Handling Code 1062: A channel negotiation request was received for a trunk that is not traffic idle.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The outgoing trunk must be Q.931. A call proceeding message was received with a valid negotiated channel ID. The negotiated trunk or channel ID is not in a traffic idle state. A release complete message will be sent on the negotiated channel with a cause of no circuit or channel available (34).

Final Handling Code 1063: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 9 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1064: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 8 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1065: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 7 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1066: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 6 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1067: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 5 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

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Final Handling Code 1068: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 4 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1069: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 3 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1070: A setup message on a Q.931 call-by-call trunk was missing a mandatory Network Specific Facilities (NSF) Information Element (IE).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk must be Q.931 with call-by-call service selection. A setup message was received with the NSF IE missing. A release complete message will be sent with a cause of mandatory information element missing and idle trunk.

Final Handling Code 1071: An invalid service was requested in a setup on a Q.931 incoming trunk.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk must be Q.931. A setup message was received. The combination of bearer capability, destination address, and network specific facilities information elements is not a valid service. A release complete message will be sent with a cause of "requested facility not subscribed," and the trunk will be idled.

Final Handling Code 1072: A setup message was received on a Q.931 trunk with a requested service that is not subscribed.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The incoming trunk must be Q.931. A setup message was received on a dedicated Q.931 trunk subgroup. The requested service is not the dedicated service of the trunk subgroup. A release complete message will be sent with a cause of "requested facility not subscribed," and the trunk will be idled.

Final Handling Code 1073: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 2 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

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Final Handling Code 1074: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 1 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1075: Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 0 (for both first and second timeout).

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A Q.931 OGT was hunted. A COT may have been received, and a setup message was sent on the OGT. No response was received to the setup message sent. The OGT will be put high and wet. A trunk rehunt will occur for the first timeout.

Final Handling Code 1076: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1077: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 15.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1078: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 14.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1079: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 13.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

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Final Handling Code 1080: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 12.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1081: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 11.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1082: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 10.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message should have been received (disconnect, progress, alert, or answer) after the progress but none was received. A disconnect message was sent.

Final Handling Code 1083: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 9.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

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Final Handling Code 1084: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 8.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1085: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 7.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1086: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 6.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1087: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 5.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

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Final Handling Code 1088: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 4.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1089: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 3.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1090: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 2.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1091: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 1.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

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Final Handling Code 1092: Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 0.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A setup message was sent. A call proceeding and a progress message were received. The CPA entered the interactive mode, and the OGT was in a CPA_CUT_THRU state. Another message (disconnect, progress, alert, or answer) should have been received after the progress but none was received. A disconnect message was sent.

Final Handling Code 1094: Network Management Carrier/Code Call Gap Control blocked Service Switching Point (SSP) call.

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:** MF
- (c) **Description:** Applies only to Bellcore SSP calls and only to the Number Services Routing (NSR) domain. The digits were received; call processing recognized the call as an SSP call. Translation of SSP-Carrier Identification and the type of service resulted in an NSR call-type word, and network management has been called. Network management blocks the call because a call gap control is on the carrier, digits, or a combination of these. The incoming trunk will receive final handling treatment (National Trunk Congestion).

Final Handling Code 1095: BOC Service Switching Point (SSP) calls blocked due to Service Control Point (SCP) overload.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF
- (c) **Description:** A BOC SSP call was attempted and blocked due to SCP overload. The call will be cancelled, and national trunk congestion will be sent.

Final Handling Code 1096: BOC Service Switching Point (SSP) calls blocked due to Switch Maintenance System (SMS) initiated controls.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF
- (c) **Description:** A BOC SSP call was attempted and blocked due to SMS initiated control. Control was due to service control point problems. The call will be cancelled.

Final Handling Code 1097: A BOC Service Switching Point (SSP) call blocked due to mass calling controls.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF
- (c) **Description:** A BOC SSP call was attempted and blocked due to mass calling controls. The call will be cancelled.

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Final Handling Code 1098: A BOC Service Switching Point (SSP) call is blocked due to vacant code controls.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF
- (c) **Description:** A BOC SSP call was attempted and blocked due to a vacant code control. The call will be cancelled.

Final Handling Code 1099: A BOC Service Switching Point (SSP) call was blocked due to non-purchased Numbering Plan Area (NPA) controls.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF
- (c) **Description:** A BOC SSP call was attempted and blocked due to non-purchased NPA controls. The call will be cancelled.

Final Handling Code 1100: An illegal call-type or data on POTS retranslation of a Service Switching Point (SSP) call is returned by the Service Control Point (SCP) data base.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be an SSP call. The translated carrier identification, type of service, incoming trunk class, and international call is returned by the SCP data base. The call-type is not allowed in the retranslate POTS domain returned by the SCP data base. A vacant code announcement will be played.

Final Handling Code 1101: Too many translations performed on a Service Switching Point (SSP) call returned by the Service Control Point (SCP) data base.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be an SSP call. Translated carrier identification, type of service, incoming trunk class, and international call returned by the SCP data base. Too many translations on this call is doing POTS retranslate. A reorder announcement will be played.

Final Handling Code 1102: An unacceptable digit count that is found on POTS retranslation on a Service Switching Point (SSP) call is returned by the Service Control Point (SCP) data base.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be an SSP call. Retranslated digits are returned by the SCP in the POTS domain. An unacceptable digit count is found on the POTS retranslation on an SSP call. A reorder announcement will be played.

Final Handling Code 1103: An illegal call type on Number Services Routing (NSR) translation of a Service Switching Point (SSP) call returned by the Service Control Point (SCP) data base.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be an SSP call. Retranslated digits returned by SCP data base in the NSR domain. Call type not allowed in NSR domain. A vacant code announcement will be played.

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Final Handling Code 1104: Received a disconnect or a release complete message with an improperly formatted Codeset 6 facility IE and with operation value = bill on a Q.931 OGT (OPA) B1 while busy to ACR.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The Q.931 OGT was hunted, and a setup message sent. A call proceeding message or progress message may have been received. A clearing message, DISC or RELC was received with an improperly formatted CS6 facility IE with operation = bill. The OGT was idled. A release complete message may have been sent with CS6 facility IE reject component.

Final Handling Code 1105: Received a disconnect or a release complete message with an improperly formatted Codeset 6 facility IE and an operation value = redirect on a Q.931 OGT (OPA) B1 while busy to ACR.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error
- (b) **Trunk Type:** Q.931
- (c) **Description:** The Q.931 OGT was hunted, and a setup message was sent. A call proceeding message or progress message may have been received. A clearing message (DISC or RELC) was received with an improperly formatted CS6 facility IE with operation = redirect. The OGT was idled. A release complete message may have been sent with CS6 facility IE reject component.

Final Handling Code 1106: Failed to send a BOC Service Switching Point (SSP) initial query because Common Network Interface (CNI) stream is down.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a BOC SSP call. An initial query for a BOC SSP call was formatted. Failed to send the query because the CNI stream is down. The incoming trunk will receive reorder announcement.

Final Handling Code 1107: Failed to send a BOC SSP initial query because of Common Network Interface (CNI) send buffer overflow.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a BOC SSP call. An initial query for a BOC SSP call was formatted. the query was not sent because of a CNI send buffer overflow. The incoming trunk will receive final handling treatment (reorder announcement).

Final Handling Code 1108: Timed out waiting for response from Service Control Point (SCP) database.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a BOC Service Switching Point (SSP) call. A BOC SSP initial query was sent. A time-out occurred—waiting for a response from the SCP database. The incoming trunk will receive final handling treatment—reorder announcement.

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Final Handling Code 1109: Received a reject message from Service Control Point (SCP) in response to an initial query.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a BOC Service Switching Point (SSP) call. An initial query for a BOC SSP call was sent. A reject message from SCP was received in response to initial query. The incoming trunk will receive final handling treatment—reorder announcement. The reason for rejection is contained in the SVOGT field. When converting this number to a 7-bit binary number, the low 4 bits contain the problem code specifier, and the upper 3 bits contain the problem code type. The problem code type and specifier are defined in library TCLIB under the items X74TC_CP_REJ_PBC_TYPE and X74TC_CP_REJ_PBC_SPC.

Final Handling Code 1110: Received a return error message from Service Control Point (SCP) in response to an initial query.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a BOC Service Switching Point (SSP) call. An initial query for a BOC SSP call was sent. A return error message was received from SCP in response to an initial query. The incoming trunk will receive final handling treatment (reorder announcement).

Final Handling Code 1111: Message received from Service Control Point (SCP) in response to an initial query contained fatal protocol errors.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a BOC Service Switching Point (SSP) call. An initial query for a BOC SSP call was sent. The message received from SCP in response to the initial query contained fatal protocol errors. The incoming trunk will receive final handling treatment—reorder announcement. The error detected is contained in the SVOGT field. The errors are defined in the pident BOSPQARC in the data table EXCODE_TBL.

Final Handling Code 1112: Received a play announcement message from Service Control Point (SCP) in response to an initial query.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a BOC Service Switching Point (SSP) call. An initial query for a BOC SSP call was sent. A play announcement message was received from SCP in response to the initial query. The incoming trunk will receive final handling treatment as chosen by SCP.

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Final Handling Code 1113: BOC Service Switching Point (SSP) initial query returned a unit data service message because it encountered transport problems.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a BOC SSP call. An initial query for a BOC SSP call was sent. The initial query was returned by the Signaling Transfer Point (STP) network as a unit data service message because the message encountered transport problems. The incoming trunk will receive final handling treatment—reorder announcement. The reason for the return of the query is contained in the SVOGT field. The reasons are defined in library TCLIB under the item X74SCCP_RETURN.

Final Handling Code 1114: BOC Service Switching Point (SSP) initial query returned by Common Network Interface (CNI).

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP.
- (c) **Description:** The call must be a BOC SSP call. An initial query for a BOC SSP call was sent. The initial query was returned by CNI. The incoming trunk will receive final handling treatment—reorder announcement. The reason for the return of the query is contained in the SVOGT field. The reasons are defined in library CPMDIS under the item TD4_HDR_RFR. PK4A153.

Final Handling Code 1115: BOC Service Switching Point (SSP) initial query is returned by Direct Link Node (DLN).

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP.
- (c) **Description:** The call must be a BOC SSP call. An initial query for a BOC SSP call was sent. The initial query was returned by DLN. The incoming trunk will receive final handling treatment—reorder announcement. The reason for return of the query is contained in the SVOGT field. The reasons are defined in library CPMDIS under the item TD4_HDR_USER. PK4A153

Final Handling Code 1116: BOC Service Switching Point (SSP) non-fatal exception report — for trunk maintenance report only.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** The call must be a BOC SSP call. An initial query for a BOC SSP call was sent. A non-fatal exception was encountered in the response received from Service Control Point (SCP). Sent an exception report to the SCP. The error detected is contained in the SVOGT field. The errors are defined in the pident BOSPQARC in the data table EXCCODE_TBL.

Final Handling Code 1117: (1) Did not receive an acceptable number of dialed digits (10) for BOC Service Switching Point (SSP) 800 number services call, or (2) Did not receive an acceptable number of dialed digits (7) for BOC Service Switching Point (SSP) INTRA-LATA7-DIGIT-FREE Call.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** The call must be a BOC SSP call. Encountered an SSP call type to query the database. Did not receive ten dialed digits for a BOC SSP 800 number services call, or 7 dialed digits for a BOC SSP INTRA-LATA7-DIGIT-FREE services call. The incoming trunk will receive final handling treatment (vacant code announcement).

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Final Handling Code 1118:

- (a) **Machine Service Report Category:**
- (b) **Trap Type:** Unexpected Stop (UXS)
- (c) **Trunk Type:** Incoming - Digit Reception
- (d) **Trunk State:** Outgoing
- (e) **Description:** The outgoing trunk is MF only and is seized. The MF transmitter is attached and outpulsing is initiated. Outpulsing digits XXXX of 1NX-XXXX-CCC sequence. An unexpected stop is detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, the MF transmitter disconnected and call REPODISP to REHUNT and the call will be retried.

Final Handling Code 1119:

- (a) **Machine Service Report Category:**
- (b) **Trap Type:** Unexpected Stop (UXS)
- (c) **Trunk Type:** Incoming - Translations
- (d) **Trunk State:** Outgoing
- (e) **Description:** The outgoing trunk is MF only. A REPODISP REHUNT event was called, OGTS00 hunted and seized a second trunk, an MF transmitter is connected and outpulsing is initiated. Outpulsing digits XXXX of the 1NX-XXXX-CCC sequence. An unexpected stop is detected on the outgoing trunk. The outgoing trunk will be idled with guard timing and the incoming trunk will be connected to "no wink from carrier" announcement.

Final Handling Code 1120:

- (a) **Machine Service Report Category:**
- (b) **Trap Type:** Unexpected Stop (UXS)
- (c) **Trunk Type:** Incoming - Translations
- (d) **Trunk State:** Outgoing
- (e) **Description:** The outgoing trunk is MF only. The trunk is seized, the MF transmitter is attached and outpulsing is initiated. Outpulsing digits CCC+ST of the 1NX-XXXX-CCC sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, the MF transmitter is disconnected, and call REPODISP to REHUNT and the call will be retried.

Final Handling Code 1121:

- (a) **Machine Service Report Category:**
- (b) **Trap Type:** Unexpected Stop (UXS)
- (c) **Trunk Type:**
- (d) **Trunk State:** Outgoing
- (e) **Description:** The outgoing trunk is MF only. A REPODISP REHUNT event was called, OGTS00 hunted and seized a second trunk, An MF transmitter was connected and outpulsing was initiated. An unexpected stop was detected on the trunk. The outgoing trunk will be idled with guard timing and the incoming trunk will be connected to "no wink from carrier" announcement.

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Final Handling Code 1122:

- (a) **Machine Service Report Category:**
- (b) **Trap Type:** Unexpected Stop (UXS)
- (c) **Trunk Type:**
- (d) **Trunk State:** Outgoing
- (e) **Description:** The outgoing trunk is MF only. The outgoing trunk was seized, the MF transmitter attached and outpulsing initiated. Outpulsing XXXX digits of the 1NX-XXXX-CCC digit sequence on an international emergency announcement call. An unexpected stop was detected on the trunk. The outgoing trunk will be idled with guard timing, the MF transmitter disconnected and call REPODISP to REHUNT. The call will be retried.

Final Handling Code 1123:

- (a) **Machine Service Report Category:**
- (b) **Trap Type:** Unexpected Stop (UXS)
- (c) **Trunk Type:**
- (d) **Trunk State:** Outgoing
- (e) **Description:** The outgoing trunk is MF only. A REPODISP REHUNT event was called, OGTS00 hunted a second trunk, seized the trunk, a MF transmitter was connected and outpulsing was initiated. Outpulse XXXX digits of 1NX-XXXX-CCC sequence on an international call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing and the incoming trunk will be connected to reorder announcement.

Final Handling Code 1124:

- (a) **Machine Service Report Category:**
- (b) **Trap Type:** Unexpected Stop (UXS)
- (c) **Trunk Type:**
- (d) **Trunk State:** Outgoing
- (e) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized, an MF transmitter attached and outpulsing initiated. Outpulsing CCC+ST last digits of the 1NX-XXXX-CCC digits on an international emergency assistance call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, the MF transmitter will be disconnected and call REPODISP to REHUNT. The call will be retried.

Final Handling Code 1125:

- (a) **Machine Service Report Category:**
- (b) **Trap Type:** Unexpected Stop (UXS)
- (c) **Trunk Type:**
- (d) **Trunk State:** Outgoing
- (e) **Description:** The outgoing trunk is MF only. A REPODISP REHUNT event was called, OGTS00 hunted a second trunk, seized a trunk, an MF transmitter was connected and outpulsing was initiated. Outpulsing CCC+ST last digits of 1NX-XXXX-CCC sequence of an international emergency announcement call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing and the incoming trunk will be connected to reorder announcement.

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Final Handling Code 1126: Unexpected stop on first EA outgoing call attempt to an IC via on Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** An outgoing trunk siezed, MF transmitter attached, and outputting initiated. Outputting XXXX digits of the 0ZZ-XXXX sequence on EA call to IC via an AT. An UXS was detected on the OGT. The OGT was idled with guard timing. The MF transmitter was disconnected and the call retried.

Final Handling Code 1127: Unexpected stop on second EA outgoing call attempt to an IC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** A second outgoing trunk was siezed, MF transmitter connected, and outputting initiated. Outputting XXXX digits of 0ZZ+XXXX sequence to IC via an AT. An unexpected stop was detected on the OGT. The OGT was idled with guard timing. The ICT was connected to a reorder announcement.

Final Handling Code 1128: Unexpected stop on first EA outgoing call attempt to an IC via on Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** An outgoing trunk was siezed, MF transmitter attached, and outputting initiated. Outputting the ST digit of the 0ZZ-XXXX+ST sequence on EA call to IC via an AT. An unexpected stop was detected on the OGT. The OGT was idled with guard timing. The MF transmitter was disconnected and the call retried.

Final Handling Code 1129: Unexpected stop on second EA outgoing call attempt to an IC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** An outgoing trunk was siezed, MF transmitter attached, and outpulsing initiated. Outpulsing ST digit of 0ZZ-XXXX+ST sequence to IC via an AT. An unexpected stop was detected on the OGT. The OGT was idled with guard timing. The ICT was connected to reorder announcement.

Final Handling Code 1130: Positive Call Processing Capability Control Procedure (PCPCCP) is killing this call as the switch's BN (ANI) Database (release 2 or 3) indicates this caller is delinquent.

- (a) **Ineffective Attempt Type:** Network Call Denial (NCD)
- (b) **Trunk Type:** DTMF, Q.931, FM, DP, ISUP
- (c) **Description:** The number of the called party is received and translated successfully. The caller's ANI (Billing Number - BN) shows as delinquent in either the PCP Release 2 BN Data Table or the Release 3 ANI Trigger Table. The ICT was connected to the NCD announcement because this call is not being allowed to route.

Final Handling Code 1131: In servicing positive call processing (PCP) DTMF RCVR queue, RCVR was obtained, but the RCVR connection to the ICT failed — path hunt failed.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** The dialed number was successfully translated. The call was chosen for positive call processing (PCP) and entered on the PCP queue for a DTMF receiver. Failed to connect ICT to a receiver. The call will be final handled, and the ICT will be connected to a no-circuit announcement or possibly an override-announcement.

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Final Handling Code 1132: In servicing the positive call processing (PCP) DTMF RCVR queue, a queue overload was detected.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** The dialed number was successfully translated. The call was chosen for Positive Call Processing (PCP) and entered on the PCP queue for a DTMF receiver. A PCP queue overload was detected. The call will be final handled, and the ICT will be connected to a no circuit announcement or possibly an override announcement.

Final Handling Code 1133: In attempting to collect the sub-account number (SAN) for sub-account billing (SAB), at least one DTMF digit which is not valid for a SAN was collected— call irregularity or account code validation failed.

- (a) **Ineffective Attempt Type:** Pulsing Error (PSE)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** The dialed number was successfully translated. The call was chosen for Positive Call Processing (PCP) Sub-Account Billing (SAB). A DTMF receiver was successfully connected to the ICT. At least one DTMF digit was detected that is not valid for SAB. This includes the DTMF number received as the first digit when SAB is mandatory and account code validation failure. The caller will be reprompted, and a repeat attempt will be made to collect the sub-Account number (SAN) and to validate the account code if customer subscribed.

Final Handling Code 1134: In attempting to collect the sub-account number (SAN) for the sub-account billing (SAB), at least one DTMF digit was collected which is not valid for a SAN — final trial.

- (a) **Ineffective Attempt Type:** Pulsing Error (PSE)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** The dialed number was translated. The call was chosen for Positive Call Processing (PCP) Sub-Account Billing (SAB). A DTMF receiver was connected to the ICT. At least one DTMF digit, not valid for SAB, was detected. This includes the DTMF number that is received as the first digit when SAB is mandatory. The call will be final handled; the ICT connected to NWC announcement or an override announcement.

Final Handling Code 1135: In attempting to collect subaccount number (SAN) for SAB, timed out having collected no digits—Call Irregularity.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-Out (PST)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** The dialed number was translated. The call was chosen for PCP subaccount billing. A DTMF receiver was connected to the ICT. The call timed out, and no digits were collected (SAB mandatory). The timeout is 5 seconds from the end of the prompt. The call will be reprompted; another attempt will be made to collect the SAN.

Final Handling Code 1136: In attempting to collect SAN for SAB, the call timed out; no digits were collected—final trial.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-Out (PST)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** The dialed number was translated. The call was chosen for Positive Call Processing (PDP) SAB. A DTMF receiver was connected to the ICT. The call timed out, and no digits were collected (SAB mandatory). The call will be final handled; the ICT connected to a NWC announcement or an override announcement.

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Final Handling Code 1137: In attempting to collect sub-account number (SAN) for sub-account billing (SAB), the call timed out without having collected enough digits — call irregularity.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** The dialed number was successfully translated. The call was chosen for Positive Call Processing (PDP) Sub-Account Billing (SAB). A DTMF receiver was successfully connected to the ICT. The call timed out without having collected enough Sub-Account Number (SAN) digits. The timeout is 5 seconds from the last digit received. The call will be reprompted, and another attempt will be made to collect the SAN.

Final Handling Code 1138: In attempting to collect the SAN for sub-account billing (SAB), the call times out without collecting enough digits — final trial.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-Out (PST)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** The dialed number is successfully translated. The call is chosen for Positive Call Processing (PCP) SAB. A DTMF receiver is successfully connected to the ICT. The call times out without having collected enough SAN digits. The timeout is 5 seconds from the last digit received. The call is final handled, and the ICT is connected to a NWC announcement or possibly an override announcement.

Final Handling Code 1140: Reentering final handling at end of tone or announcement to have CR released.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** The call is identified as using 1+SACDS or fax S&F and times out from connection to announcement or tone from original call failing.

Final Handling Code 1141: In attempting to collect call type indicator for mixed use voice/fax a bad digit is received— call irregularity.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call is identified, via ANI, for subscription to mixed use voice/fax (MUVF). At least one DTMF digit is detected which is illegal for MUVF; only 3 or 8 or a timeout are legal. The caller is prompted, and a repeat attempt is made to collect the MUVF call type indicator.

Final Handling Code 1142: In attempting to collect the service code for "1 + spontaneous access to call delivery service", an illegal digit or bad service code was received(em call irregularity.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** A call was identified, via ANI, for subscription to 1 + Spontaneous Access to Call Delivery Service (SACDS), and caller entered initial # (pound). The system detected at least one DTMF digit which is illegal for SACDS or the entered Service Code (SC) was bad. The caller was prompted, and a repeat attempt to collect the SACDS SC will be made.

Final Handling Code 1143: In attempting to collect service code for FAX Store and Forward, an illegal digit or bad service code was received — call irregularity.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call was identified, via ANI, for subscription to FAX Store and Forward (FAXSF), and call entered initial # (pound). The system detected at least one DTMF digit which is illegal for a FAXSF service code (SC), or the SC is bad. The caller will be prompted, and a repeat attempt to collect the FAXSF SC will be made.

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Final Handling Code 1144: In attempting to collect CTI for an MUVF, a call received a bad digit — final trial.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** A call was identified, via ANI, for subscription to Mixed Use Voice/Fax (MUVF). The system detected at least one DTMF digit which is illegal for a MUVF CTI. The call was final handled, and the ICT was connected to an announcement identified as NWC or possibly an override announcement.

Final Handling Code 1145: In attempting to collect SC for SACS, an illegal digit or bad SC was received — final trial.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call was identified, via ANI, for subscription to SACDS, and caller entered initial # (pound). The system detected at least one DTMF digit which is illegal for SACDS or the entered SC is bad. The call was final handled, and the ICT was connected to an announcement identified as NWC or possibly an override announcement.

Final Handling Code 1146: In attempting to collect SC for a FAX S&F, an illegal digit or bad SC was received — final trial.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call was identified, via ANI, for subscription to FAX S&F and an initial # (pound) was received. The system detected at least one DTMF digit which is illegal for FAXSF SC or the SC was bad. The call was final handled, and the ICT was connected to an announcement identified as NWC or possibly an override announcement.

Final Handling Code 1147: In attempting to collect SC for SACDS, no more digits after the initial pound were received — call irregularity.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call was identified, via ANI, for subscription to SACDS, and the initial pound (#) was received from the caller. The call timed out because nothing was received after the pound. The caller was prompted, and a repeat attempt was made to collect the SACDS SC.

Final Handling Code 1148: In attempting to collect SC for FAX S&F, no digits were received after the initial pound — call irregularity.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** A call was identified, via ANI, for subscription to FAXSF, and the initial pound (#) was received from the caller. The call timed out because nothing was received after the pound. The caller was prompted, and a repeat attempt was made to collect the FAXSF SC.

Final Handling Code 1149: In attempting to collect SCC for SACDS, no digits were received after the initial pound (#) — final trial.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call was identified, via ANI, for subscription to SACDS, and the caller entered the initial pound (#). After no digits were collected after the initial pound (#), the call timed out and was final handled. The ICT was connected to an announcement identified as NWC or possibly an override announcement.

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Final Handling Code 1150: In attempting to collect SC for FAX S&F, no digits were received after initial pound (#) — final trial.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call was identified, via ANI, for subscription to FAXSF, and caller entered initial pound (#). The call timed out after no digits were collected after the initial pound (#). The call was final handled, and the ICT was connected to an announcement identified as NWC or possibly an override announcement.

Final Handling Code 1151: A complete SC was not received when an attempt was made to collect SC for SACDS — call irregularity.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call was identified, via ANI, for subscription to SACDS. The initial pound (#) was received, and one or two more digits. The call timed out because not enough digits were collected for an SACDS SC. The caller was prompted, and a repeat attempt was made to collect the SACDS SC.

Final Handling Code 1152: A complete SC was not received when an attempt was made to collect SC for FAX S&F—call irregularity.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** A call was identified, via ANI, for subscription to FAXSF. The initial pound (#) was received, and one or two more digits. The call timed out because not enough digits were collected for an SACDS SC. The caller was prompted, and a repeat attempt was made to collect the SACDS SC.

Final Handling Code 1153: A complete SC collection for SACDS was not received — final trial.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** Call was identified, via ANI, for subscription to SACDS. The initial pound (#) was received, and one or two more digits. The call timed out because not enough digits were collected for an SACDS SC. The call was final handled, and the ICT was connected to an announcement identified as NWC or possibly to an override announcement.

Final Handling Code 1154: A complete SC collection for FAX S&F was not received — final trial.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** A call was identified, via ANI, for subscription to FAXSF. The initial pound (#) and one or two more digits were received. The call timed out because not enough digits were collected for an SACDS SC. The call was final handled, and the ICT was connected to an announcement identified as NWC or possibly an override announcement.

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Final Handling Code 1155: After a 1+SACDS or FAX S&F customer enters the pound, a network path hunt failure is encountered in trying to convert a one-way intra-buffer connection between an ICT and DTMF receiver to a two-way connection.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** An ICT—customer—was connected to OGT (wait for answer) or a final handling tone/announcement and entered a DTMF # (pound). The connection between the ICT and OGT or between the ICT and tone/announcement was removed. Trying to reconfigure a one-way Intra-Buffer path between the ICT and DTMF receiver to a two-way path, a path hunt failure was encountered. The ICT was connected to a no circuit announcement.

Final Handling Code 1156: In handling sub-account billing account code, validation encountered failure to send a query

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** The dialed number was received and translated. The call was identified to use SAB and SAN validation. A query was not sent to retrieve pre-assigned value list (PVL). The call was final handled, and the ICT was connected to an announcement identified as NWC or possibly an override announcement.

Final Handling Code 1157: In handling a sub-account billing account code validation, a reply was not received to the query.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** The dialed number was received and translated. The call was identified to use SAB and SAN validation. The query that wants to retrieve the preassigned value list (PVL) failed to receive a reply. The call was final handled, and the ICT was connected to a NWC or possibly an override announcement.

Final Handling Code 1158: In handling a subaccount billing account code validation, a reply was received to the query; but the DLN reply contained no data or inconsistent data.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** The dialed number was received and translated. The call was identified to use SAB and SAN validation. A reply was received but the DLN data did not match the 1A/1B [BN (ANI)] subscription information. The call was final handled; the ICT was connected to a NWC or an override announcement.

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Final Handling Code 1159: In handling subaccount billing account-code validation, the final trial failed the call as received. SAN digits did not match any set in the customer's PVL.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF, ISUP, DTMF, DP, Q.931
- (c) **Description:** The dialed number was received and translated. The call was identified to use sub-account number (SAN) and sub-account billing (SAB) validation. The received digits did not match any set in the customer's PVL. The call was final handled, and the ICT was connected to a NWC or possibly an override announcement.

Final Handling Code 1160: On an equal access multifrequency (MF) SSP incoming call, an invalid automatic number identification (ANI) sequence was received.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** An MF incoming trunk to an office performing a SSP function for a Local Exchange Carrier (LEC). The first stage of digits were collected (an 0ZZXXX sequence); the call is identified as an equal access SSP call. A bad ANI sequence—the ANI sequence should be KP+II+NPA+ST or KP+II+NPA+NXX+XXXXST (that is, 5 or 12 digits). An attempt was made to send post address wink to an equal-access end office (EAEO) and connect the caller to the “Signaling Information Failure (SIF)” announcement

Final Handling Code 1161: On an equal access MF service switching point (SSP) incoming call, an invalid call type on the third address sequence is identified.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF
- (c) **Description:** An MF incoming trunk to an office performing SSP function for a LEC. The first stage of digits (an 0ZZXXX sequence) and equal access ANI were collected. The third stage of digits received yielded an invalid call type (for example: international routing actions, test call, direct services dialing capability call). A post address wink is sent, and the caller is connected to a vacant code.

Final Handling Code 1162: Retranslate digits in the Number Services Routing (NSR) domain on the Service Switching Point (SSP) call type without Service Control Point (SCP) data base query.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF
- (c) **Description:** The call must be a SSP call. Translated the Carrier Identification (CID), Type of Service (TOS), Incoming Trunk Class (ITC), and international call not returned by the SCP data base. The call type is not allowed for NSR domain without SCP transaction. A vacant code announcement will be played.

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Final Handling Code 1163: No Automatic Number Identification (ANI) sequence is received on an equal access Multifrequency (MF) service switching point (SSP) incoming call.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** An MF incoming trunk to an office performing SSP function for Local Exchange Carrier (LEC). First stage of digits were collected (0ZZ XXXX sequence) and the call was identified as an equal access SSP call. The ANI sequence was digits KPST on an equal access call. The call should contain a valid ANI sequence. An attempt was made to send a post address wink to the equal access end office and connect the caller to the Signaling Information Failure (SIF) announcement.

Final Handling Code 1164: Equal Access MF outpulsing program in handling an AT&T MEGACOM® 800 telecommunications service to another IXC found there was no dialed number in the call register.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** A wink was received and an ANI sequence was sent. Nodialed number was found in the call register. The call was killed and caller received reorder announcement.

Final Handling Code 1165: The Universal Global Translation (UGT) database failed to find a customer record for a resell featured call. This is a call irregularity report only. The call will not be purged.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ISUP,MF
- (c) **Description:** This code occurs when a query to the UGT database is required and the feature bit is turned on for Carrier Solutions 1+CIC Wholesale features, phase 1. The switch received a response from the UGT database but no customer record was found. The call irregularity report is printed and the switch attempts to route the call.

Final Handling Code 1169: Government Emergency Telecommunication Services — NSC Pre-query Error.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** ALL
- (c) **Description:** Received the NSCX response message. NSC could not collect digits. DSD started building an NCP query.

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Final Handling Code 1170: Government Emergency Telecommunication Services — SCS Pre-query Error.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** ALL
- (c) **Description:** The wrong SCS error message was received. The SCS could not collect digits. The DSD started building NCP query.

Final Handling Code 1171: An unexpected stop was detected on the first Equal Access (EA) outgoing call attempt direct to International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized, an MF transmitter was connected, and outpulsing was initiated. Outpulsing KP+1NX digits on an EA call direct to INC. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing; the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1172: An unexpected stop was detected on the second Equal Access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. A second outgoing trunk was hunted and seized; the MF transmitter was connected and outpulsing initiated. Outpulsing KP+1NX digits of 1NX-XXX-CCC sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

Final Handling Code 1173: An unexpected stop was detected on first Equal Access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. The outgoing trunk was seized, the MF transmitter connected, and outpulsing initiated. Outpulsing XXXC digits of 1NX-XXX-CCC sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1174: An unexpected stop was detected on the second EA outgoing call attempt direct to an INC.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted; trunk was seized; MF transmitter was connected, and outpulsing was initiated—outpulsing XXXC digits of the 1NX-XXX-CCC sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

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Final Handling Code 1175: An unexpected stop was detected on the first Equal Access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. The outgoing trunk was seized, MF transmitter connected, and outpulsing initiated. Outpulsing CC+ST digits of 1NX-XXX-CCC sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitted will be disconnected. Retry the call.

Final Handling Code 1176: An unexpected stop was detected on second Equal Access (EA) outgoing call attempt direct to International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. Hunted second outgoing trunk, seized trunk, MF transmitter connected, and outpulsing initiated. Outpulsing CC+ST digits of 1NX+XXX+CCC sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing and the incoming trunk will be connected to the "no wink from carrier" announcement.

Final Handling Code 1177: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The outgoing trunk was seized, MF transmitter connected, and outpulsing initiated. Outpulsing KP+ST for the no Automatic Number Identification (ANI) case. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter disconnected. Retry the call.

Final Handling Code 1178: An unexpected stop was detected on second EA outgoing call attempt direct to INC.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted and seized; the MF transmitter was connected, and outpulsing initiated. Outpulsing KP+ST for the no ANI case. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "no wink from carrier" announcement.

Final Handling Code 1179: An unexpected stop was detected on the first EA outgoing call attempt direct to the INC.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** Multifrequency (MF)
- (c) **Description:** The outgoing trunk is MF only. The outgoing trunk was seized. The MF transmitter connected and outpulsing initiated. Outpulsing KP+IIN digits of the Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter disconnected. Retry the call.

Final Handling Code 1180: An unexpected stop was detected on second an equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated. Outpulsing KP+IIN digits of the ANI sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing; the incoming trunk will be connected to the "no wink from carrier" announcement.

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Final Handling Code 1181: An unexpected stop was detected on first the EA outgoing call attempt direct to INC.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. The outgoing trunk was seized, MF transmitter connected, and outpulsing initiated. Outpulsing PA+ST digits of a 5-digit ANI sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1182: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated. Outpulsing PA+ST digits of a 5-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "no wink from carrier" announcement.

Final Handling Code 1183: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The outgoing trunk was seized; MF transmitter connected, and outpulsing initiated. Outpulsing PAXX digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1184: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an international carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitted connected, and outpulsing initiated. Outpulsing PAXX digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "no wink from carrier" announcement.

Final Handling Code 1185: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The outgoing trunk was seized, MF transmitter connected, and outpulsing initiated. Outpulsing XXXX digits 6 thru 9 of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1186: An unexpected stop was detected on second Equal Access (EA) outgoing call attempt direct to International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated. Outpulsing XXXX digits 6 thru 9 of a 10-digit ANI sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "no wink from carrier" announcement.

234-010-315

Final Handling Code 1187: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated. Outpulsing X+ST last digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1188: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk hunted and seized; MF transmitter connected, and outpulsing initiated. Outpulsing X+ST last digits of a 10-digit ANI sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "no wink from carrier" announcement.

Final Handling Code 1189: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated. Outpulsing address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1190: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—Outpulsing address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

Final Handling Code 1191: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized, MF transmitter connected, and outpulsing initiated—outpulsing the last of the address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1192: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted—seized, MF transmitter connected, and outpulsing initiated—outpulsing the last of the address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to no wink from the carrier (NWC) announcement.

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Final Handling Code 1193: An unexpected stop was detected on the first EA outgoing call attempt to an INC via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized; the MF transmitter connected; and outputting initiated. Outputting KP+1NX digits on 1NX-XXX-CCC digit sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk is idled with guard timing, and the MF transmitter is disconnected. Retry the call.

Final Handling Code 1194: An unexpected stop was detected on the second EA outgoing call attempt to an INC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted; the trunk was seized; the the MF transmitter was connected, and outputting initiated—outputting KP+1NX digits on 1NX-XXX+CCC sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk was idled with guard timing, and the incoming trunk connected to reorder announcement.

Final Handling Code 1195: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; the MF transmitter was connected, and outputting initiated—outputting XXXC digits on the 1NX-XXX-CCC digit sequence on international EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk is idled with guard timing, and the MF transmitter is disconnected. Retry the call.

Final Handling Code 1196: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an international carrier (INC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. The second outgoing trunk was hunted; seized trunk, MF transmitter connected and outpulsing initiated—outpulsing XXXC digits of 1NX-XXX-CCC sequence on an international EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1197: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing CC+ST last digits of the 1NX-XXX-CCC digits on an international EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

234-010-315

Final Handling Code 1198: An unexpected stop was detected on the second EA outgoing call attempt.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing CC+ST last digits of 1NX-XXX-CCC sequence on international EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1199: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an INC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized, MF transmitter connected, and outpulsing is initiated—outpulsing KP+ST digits in no ANI case. An unexpected stop is detected on the outgoing trunk. The outgoing trunk is be idled, and the MF transmitter is disconnected. Retry the call.

Final Handling Code 1200: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+ST digits in no Automatic Number Identification (ANI) case. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1201: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+IIN digits in Automatic Number Identification (ANI) sequence of an EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

234-010-315

Final Handling Code 1202: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+IIN digits in an Automatic Number Identification (ANI) sequence for EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1203: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized; MF transmitter connected, and outpulsing was initiated—outpulsing PA+ST digits on EA 5-digit ANI sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1204: An unexpected stop was detected on the second EA outgoing call attempt to an INC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing PA+ST last digits of 5-digit EA Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1205: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing PAXX digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

234-010-315

Final Handling Code 1206: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated. Outpulsing PAXX digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1207: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing XXXX digits 6 thru 9 of a 10-digit EA Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1208: An unexpected stop was detected on the second EA outgoing call attempt to an INC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing XXXX digits 6 thru 9 of a 10-digit EA ANI sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1209: An unexpected stop was detected on the first EA outgoing call attempt to an INC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing X+ST last digits of 10-digit EA ANI sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing; the MF transmitter disconnected. Retry the call.

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Final Handling Code 1210: An unexpected stop was detected on the second Equal Access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing X+ST last digits of 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1211: An unexpected stop was detected on the first Equal Access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing address digits on an EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1212: An unexpected stop was detected on the second Equal Access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing address digits on an EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1213: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing last address digits on an EA call. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1214: An unexpected stop was detected on the second EA outgoing call attempt to an INC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk is hunted and seized; MF transmitter connects, and outpulsing initiated—outpulsing last of address digits on EA call. An unexpected stop is detected on the outgoing trunk. The outgoing trunk is idled with guard timing, and the incoming trunk is connected to the reorder announcement.

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Final Handling Code 1215: An unexpected stop is detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk is seized; MF transmitter connects, and outputting initiated—outputting 0ZZ digits to the AT. Part of 0ZZ-XXX sequence. An unexpected stop is detected on the outgoing trunk. The outgoing trunk is idled with guard timing, and the MF transmitter is disconnected. Retry the call.

Final Handling Code 1216: An unexpected stop is detected on the second EA outgoing call attempt to an Carrier IC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk is hunted and seized; MF transmitter connects, and outputting initiated—outputting 0ZZ digits to the AT. Part of 0ZZ-XXX sequence. An unexpected stop is detected on the outgoing trunk. The outgoing trunk is idled with guard timing, and the incoming trunk is connected to the reorder announcement.

Final Handling Code 1217: An unexpected stop was detected on the first E) outgoing call attempt to an IC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized; MF transmitter connected, and outputting initiated—outputting XXX last digits of the 0ZZ-XXX sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1218: An unexpected stop was detected on the second EA outgoing call attempt to an IC via an AT.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk is hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing XXX last digits of OZZ-XXX sequence. An unexpected stop is detected on the outgoing trunk. The outgoing trunk is idled with guard timing, and the incoming trunk is connected to the reorder announcement.

Final Handling Code 1219: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+ST Automatic Number Identification (ANI) digits for no ANI case. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

234-010-315

Final Handling Code 1220: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+ST Automatic Number Identification (ANI) digits for no ANI case. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1221: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+IIN digits of the Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1222: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+IIN digits of the Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1223: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing PA+ST digits of a 5-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

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Final Handling Code 1224: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing PA+ST digits of a 5-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1225: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing PAXX digits of a 10-digit Automatic Number identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1226: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing PAXX digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1227: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing digits 6 thru 9 of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

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Final Handling Code 1228: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing digits 6 thru 9 of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1229: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing X+ST last digits in Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1230: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—Outpulsing X+ST last digits of the Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1231: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

234-010-315

Final Handling Code 1232: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1233: An unexpected stop was detected on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing last of address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1234: An unexpected stop was detected on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing last of address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1235: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+ST no Automatic Number Identification (ANI) digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

234-010-315

Final Handling Code 1236: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+ST no Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

Final Handling Code 1237: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+IIN digits of an Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1238: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing KP+IIN digits of an Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

Final Handling Code 1239: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing PA+ST digits of a 5-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

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Final Handling Code 1240: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing PA+ST last digits of a 5-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

Final Handling Code 1241: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing PAXX digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1242: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—Outpulsing PAXX digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to a the “no wink from carrier” announcement.

Final Handling Code 1243: An unexpected stop was detected on the first equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected, and outpulsing initiated—outpulsing XXXX digits 6 thru 9 of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

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Final Handling Code 1244: An unexpected stop was detected on the second equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing XXXX digits 8 thru 11 of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

Final Handling Code 1245: An unexpected stop was detected on first Equal Access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. An outgoing trunk was seized, MF transmitter connected, and outpulsing initiated. Outpulsing X+ST last digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1246: An unexpected stop was detected on second Equal Access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The second outgoing trunk was hunted and seized; MF transmitter connected, and outpulsing initiated—outpulsing X+ST last digits of a 10-digit Automatic Number Identification (ANI) sequence. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

Final Handling Code 1247: An unexpected stop was detected on the first Equal Access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. An outgoing trunk was seized; MF transmitter connected; and outpulsing was initiated—outpulsing address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

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Final Handling Code 1248: An unexpected stop was detected on the second Equal Access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. The second outgoing trunk was hunted; seized trunk; MF transmitter connected, and outpulsing was initiated. Outpulsing address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the “no wink from carrier” announcement.

Final Handling Code 1249: An unexpected stop was detected on the first EA outgoing call attempt direct to an IC.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized; MF transmitter connected; and outpulsing is initiated—outpulsing last address digits. An unexpected stop was detected on the outgoing trunk. The outgoing trunk idled with guard timing, and the MF transmitter is disconnected. Retry the call.

Final Handling Code 1250: An unexpected stop was detected on the second EA outgoing call attempt direct to an IC.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk is hunted; seized trunk; MF transmitter connects, and outpulsing is initiated—outpulsing last address digits. An unexpected stop is detected on the outgoing trunk. The outgoing trunk is idled with guard timing, and the incoming trunk is connected to the “no wink from carrier” announcement.

Final Handling Code 1251: An MF transmitter error report is received on the first EA outgoing call attempt direct to an INC.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk is seized, and MF transmitter connected. An MF transmitter error report is received during outpulsing. The outgoing trunk is idled with guard timing, and the MF transmitter is disconnected. Retry the call.

Final Handling Code 1252: A Multifrequency (MF) transmitter error report was received on the second equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted; trunk was seized, and an MF transmitter was connected. An MF transmitter error report was received during outpulsing. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to reorder announcement.

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Final Handling Code 1253: A Multifrequency (MF) transmitter error report was received on the first equal access (EA) outgoing call attempt to an International Carrier (INC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized, and an MF transmitter was connected. A MF transmitter error report was received during outpulsing. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1254: A Multifrequency (MF) transmitter error report was received on second equal access (EA) outgoing call attempt to an International Carrier (INC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted; trunk was seized, and an MF transmitter was connected. An MF transmitter error was reported during outpulsing. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1255: A Multifrequency (MF) transmitter error report was received on the first equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized, and an MF transmitter was connected. An MF transmitter error report was received during outpulsing. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1256: A Multifrequency (MF) transmitter error report was received on the second equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted; trunk was seized, and an MF transmitter was connected. An MF transmitter error was reported during outpulsing. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

Final Handling Code 1257: A multifrequency (MF) transmitter error report was received on the first equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. An outgoing trunk was seized, and an MF transmitter was connected. An MF transmitter error report was received during outpulsing. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected. Retry the call.

Final Handling Code 1258: A multifrequency (MF) transmitter error report was received on the second equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The second outgoing trunk was hunted; trunk was seized, and an MF transmitter was connected. An MF transmitter error report was received during outpulsing. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the reorder announcement.

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Final Handling Code 1259: A second start-dial (SSD) pulse that was too long was detected on the first equal access (EA) outgoing call attempt direct to an International Carrier (INC).

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The beginning of a SSD pulse was detected. Call register link list timing was initiated to time the length of the pulse. Link list timing of a SSD pulse timed-out on the first EA outgoing call attempt. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected and idled. Retry the call.

Final Handling Code 1260: A SSD pulse that was too long was detected on the second EA outgoing call attempt direct to an INC.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The beginning of a SSD pulse was detected. Call register link list timing was initiated to time the length of the pulse. Link list timing of a SSD pulse timed-out on the second or retry attempt. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1261: A post address wink (PAW) pulse that was too long was detected on the first EA outgoing call attempt direct to an INC.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The beginning of a PAW pulse was detected. The call register link list timing was initiated to time the length of the pulse. Link list timing of a PAW pulse timed-out on the first EA outgoing call attempt. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected and idled. Retry the call.

Final Handling Code 1262: A PAW pulse that was too long was detected on the second EA outgoing call attempt direct to an INC.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The beginning of a PAW pulse is detected. The call-register link-list-timing is initiated to time the length of the pulse. Link list timing of a PAW pulse timed out on the retry attempt. The outgoing trunk is idled with guard timing, and the incoming trunk is connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1263: A second start-dial (SSD) pulse that was too long was detected on first the equal access (EA) outgoing call attempt to an International Carrier (INC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The beginning of a SSD pulse was detected. Call register link list timing was initiated to time the length of the pulse. Link list timing of a SSD pulse timed-out on the first EA outgoing call attempt. The AT will complete to the IC in order to play an announcement.

Final Handling Code 1264: A second start dial (SSD) pulse that was too long was detected on second equal access (EA) outgoing call attempt to an International Carrier (INC) via an Access Tandem (AT).

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The beginning of a SSD pulse was detected. Call register link list timing was initiated to time the length of the pulse. Link list timing of a SSD pulse timed-out on the second EA outgoing call attempt. The AT will complete to the IC in order to play an announcement.

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Final Handling Code 1265: A post address wink (PAW) pulse that was too long was detected on first equal access (EA) outgoing call attempt to an international carrier (INC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The beginning of a PAW pulse is detected. Call register link-list timing is initiated to time the length of the pulse. Link-list timing of a PAW pulse timed-out on the first EA outgoing call attempt. The AT completes to the IC in order to play an announcement.

Final Handling Code 1266: A carrier acknowledge wink pulse that was too long was detected on an equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The beginning of a carrier-acknowledge wink-pulse was detected. Call register link-list timing was initiated to time the length of the pulse. Link-list timing of a wink pulse timed-out on the EA outgoing call attempt. The AT will complete to the IC in order to play an announcement.

Final Handling Code 1267: A post address wink (PAW) pulse that was too long was detected on an equal access (EA) outgoing call attempt to an Interexchange Carrier (IC) via an access tandem (AT).

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The beginning of a PAW pulse was detected. Call register link-list timing was initiated to time the length of the pulse. Link-list timing of a PAW pulse timed-out on the EA outgoing call attempt. The AT will complete to the IC in order to play an announcement.

Final Handling Code 1268: A PAW pulse that was too long was detected on the first EA outgoing call attempt direct to an IC.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The beginning of a PAW pulse is detected. Call register link-list timing was initiated to time the length of the pulse. Link-list timing of a PAW pulse timed-out on the first EA outgoing call attempt. The outgoing trunk will be idled with guard timing, and the MF transmitter will be disconnected and idled. Retry the call.

Final Handling Code 1269: A post address wink (PAW) pulse that was too long was detected on the second equal access (EA) outgoing call attempt direct to an Interexchange Carrier (IC).

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The beginning of a PAW pulse was detected. Call register link-list timing was initiated to time the length of the pulse. Link-list timing of a PAW pulse timed-out on the second or retry attempt. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to NWC announcement.

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Final Handling Code 1270: Dedicated word timing timed-out while waiting for a second start dial (SSD) pulse on an EA outgoing call direct to an INC. No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The digits were outputted on an EA call direct to an INC. Call register dedicated word timing timed-out while waiting for SSD pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing; the incoming trunk connected to the "NWC" announcement.

Final Handling Code 1271: Dedicated word timing timed-out while waiting for a SSD pulse on an EA outgoing call direct to an INC. Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is MF only. The digits were outputted on an EA call direct to an INC. Call register dedicated word timing timed-out while waiting for SSD pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to No the "NWC" announcement.

Final Handling Code 1272: Dedicated word timing timed-out while waiting for a second start dial (SSD) pulse on an equal access (EA) outgoing call direct to an International Carrier (INC). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an INC. Call register dedicated word timing timed-out while waiting for SSD pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1273: Dedicated word timing timed-out while waiting for a second start dial (SSD) pulse on an equal access (EA) outgoing call direct to an International Carrier (INC). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an INC. Call register dedicated word timing timed-out while waiting for SSD pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

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Final Handling Code 1274: Dedicated word timing timed-out while waiting for a post address wink (PAW) pulse on an equal access (EA) outgoing call direct to an International Carrier (INC). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an INC. Call register dedicated word timing timed-out while waiting for PAW pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1275: Dedicated word timing timed-out while waiting for a post address wink (PAW) pulse on an equal access (EA) outgoing call direct to an International Carrier (INC). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an INC. Call register dedicated word timing timed-out while waiting for PAW pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1276: Dedicated word timing timed-out while waiting for a post address wink (PAW) pulse on an equal access (EA) outgoing call direct to an International Carrier (INC). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an INC. Call register dedicated word timing timed-out while waiting for PAW pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1277: Dedicated word timing timed-out while waiting for a post address wink (PAW) pulse on an equal access (EA) outgoing call direct to an International Carrier (INC). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an INC. Call register dedicated word timing timed-out while waiting for a PAW pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

234-010-315

Final Handling Code 1278: Dedicated word timing timed-out while waiting for the first second start dial (SSD) pulse on an equal access (EA) outgoing call to an International Carrier (INC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated word timing timed-out while waiting for the first SSD pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1279: Dedicated word timing timed-out while waiting for the first second start dial (SSD) pulse on an equal access (EA) outgoing call to an International Carrier (INC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated word timing timed-out while waiting for the first SSD pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1280: Dedicated word timing timed-out while waiting for the first second start dial (SSD) pulse on an equal access (EA) outgoing call to an International Carrier (INC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated word-timing timed-out while waiting for the first SSD pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1281: Dedicated word timing timed-out while waiting for the first second start dial (SSD) pulse on an equal access (EA) outgoing call to an international carrier (INC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated word timing timed-out while waiting for the first SSD pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

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Final Handling Code 1282: Dedicated word timing timed-out while waiting for the second Second-Start-Dial (SSD) pulse on an equal access (EA) outgoing call to an International Carrier (INC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is Multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated word timing timed-out while waiting for the second SSD pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing and the incoming trunk will be connected to No Wink from Carrier (NWC) announcement.

Final Handling Code 1283: Dedicated word timing timed-out while waiting for the second SSD pulse on an EA outgoing call to an INC via an AT. Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated word timing timed-out while waiting for the second SSD pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1284: Dedicated word timing timed-out while waiting for the second second-start-dial (SSD) pulse on an equal access (EA) outgoing call to an International Carrier (INC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated-word-timing timed-out while waiting for the second SSD pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink From Carrier (NWC)" announcement.

Final Handling Code 1285: Dedicated-word-timing timed-out while waiting for the second second-start-dial (SSD) pulse on an equal access (EA) outgoing call to an International Carrier (INC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated-word-timing timed-out while waiting for the second SSD pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

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Final Handling Code 1286: Dedicated-word-timing timed-out while waiting for the post-address-wink (PAW) pulse on an equal access (EA) outgoing call to an international carrier (INC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated-word-timing timed-out while waiting for the PAW pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1287: Dedicated-word-timing timed-out while waiting for the post-address-wink (PAW) pulse on an equal access (EA) outgoing call to an International Carrier (INC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated-word-timing timed-out while waiting for the PAW pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1288: Dedicated-word-timing timed-out while waiting for the PAW pulse on an equal access (EA) outgoing call to an INC via an AT. No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated-word-timing timed-out while waiting for the PAW pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1289: Dedicated-word-timing timed-out while waiting for the post-address-wink (PAW) pulse on an equal access (EA) outgoing call to an International Carrier (INC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an INC via an AT. Call register dedicated-word-timing timed-out while waiting for the PAW pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

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Final Handling Code 1290: Dedicated-word-timing timed-out while waiting for an acknowledge-wink pulse on an equal access (EA) outgoing call to an Interexchange Carrier (IC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outputted on an EA call to an IC via an AT. Call register dedicated-word-timing timed-out while waiting for an acknowledge-wink pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1291: Dedicated-word-timing timed-out while waiting for an acknowledge-wink pulse on an equal access (EA) outgoing call to an Interexchange Carrier (IC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outputted on an EA call to an IC via an AT. Call register dedicated-word-timing timed-out while waiting for an acknowledge-wink pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1292: Dedicated-word-timing timed-out while waiting for an acknowledge-wink pulse on an equal access (EA) outgoing call to an Interexchange Carrier (IC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an IC via an AT. Call register dedicated-word-timing timed-out while waiting for an acknowledge-wink pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1293: Dedicated-word-timing timed-out while waiting for an acknowledge-wink pulse on an equal access (EA) outgoing call to an Interexchange Carrier (IC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an IC via an AT. Call register dedicated-word-timing timed-out while waiting for an acknowledge-wink pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

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Final Handling Code 1294: Dedicated-word-timing timed-out while waiting for a post-address-wink (PAW) pulse on an equal access (EA) outgoing call to an Interexchange Carrier (IC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an IC via an AT. Call register dedicated-word-timing timed-out while waiting for a PAW pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1295: Dedicated-word-timing timed-out while waiting for a post-address-wink (PAW) pulse on an equal access (EA) outgoing call to an Interexchange Carrier (IC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an IC via an AT. Call register dedicated-word-timing timed-out while waiting for a PAW pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1296: Dedicated-word-timing timed-out while waiting for a post-address-wink (PAW) pulse on an equal access (EA) outgoing call to an Interexchange Carrier (IC) via an access tandem (AT). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an IC via an AT. Call register dedicated-word-timing timed-out while waiting for a PAW pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1297: Dedicated-word-timing timed-out while waiting for a post-address-wink (PAW) pulse on an equal access (EA) outgoing call to an Interexchange Carrier (IC) via an access tandem (AT). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call to an IC via an AT. Call register dedicated-word-timing timed-out while waiting for a PAW pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

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Final Handling Code 1298: Dedicated-word-timing timed-out while waiting for a post-address-wink (PAW) pulse on an equal access (EA) outgoing call direct to an Interexchange Carrier (IC). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an IC. Call register dedicated-word-timing timed-out while waiting for a PAW pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1299: Dedicated-word-timing timed-out while waiting for a post-address-wink (PAW) pulse on an equal access (EA) outgoing call direct to an Interexchange Carrier (IC). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an IC. Call register dedicated-word-timing timed-out while waiting for a PAW pulse. The outgoing trunk was on-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1300: Dedicated-word-timing timed-out while waiting for a post-address-wink (PAW) pulse on an equal access (EA) outgoing call direct to an Interexchange Carrier (IC). No short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits were outpulsed on an EA call direct to an IC. Call register dedicated-word-timing timed-out while waiting for a PAW pulse. The outgoing trunk was off-hook. No pulse was received from the carrier. The outgoing trunk will be idled with guard timing, and the incoming trunk will be connected to the "No Wink from Carrier (NWC)" announcement.

Final Handling Code 1301: Dedicated-word-timing timed-out while waiting for a post-address-wink (PAW) pulse on an equal access (EA) outgoing call direct to an Interexchange Carrier (IC). Short winks were detected.

- (a) **Ineffective Attempt Type:** No Start Dial (NSD)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. The digits are outpulsed on an EA call direct to an IC. Call register dedicated-word-timing times out while waiting for a PAW pulse. The outgoing trunk is off-hook. No pulse is received from the carrier. The outgoing trunk is idled with guard timing, and the incoming trunk is connected to the "No Wink from Carrier (NWC)" announcement.

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Final Handling Code 1302: The LOAD_CCC_DIGITS subroutine encountered invalid HT4CCCONV table entry.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF
- (c) **Description:** The outgoing trunk is multifrequency (MF) only. An outgoing equal access call to an international carrier is initiated and outputting 1NX-XXX-CCC digit sequence begins. When calling the LOAD_CCC_DIGITS subroutine, an entry of all zeroes is found in the HT4CCCONV head table. The outgoing trunk is idled; the MF transmitter is idled and disconnected. The incoming trunk is connected to vacant code announcement. See TG4 R.C. Forms 313 or 317.

Final Handling Code 1303: An outgoing call to an OSPA position failed to receive an ANI-SEND off-hook signal on the first attempt.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MS)
- (b) **Trunk Type:** MF
- (c) **Description:** An OGT to OSPA has seized and a wink is received. KP+ST digits are sent; waited for ANI-SEND (off-hook) pulse; times out (600 ms) while waiting for the ANI-SEND signal. The OGT was idled with guard timing. The MF transmitter was disconnected; REP0 was called to REHUNT and retry the call.

Final Handling Code 1304: An outgoing call to an OSPS position failed to receive an ANI-SEND off-hook signal on the second attempt.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** An OGT to OSPS seized and wink was received. KP+ST digits were sent; waited for the ANI-SEND pulse; timed-out (600 ms) while waiting for the ANI-SEND signal. The OGT was idled with guard timing. The ICT was sent to reorder announcement.

Final Handling Code 1305: An MF transmitter error on first EA outgoing call attempt to an OSPS.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** An OGT to OSPS was seized, and an MF transmitter was connected. An MF transmitter error report was received during outpulsing. The OGT was idled with guard timing. The MF transmitter was disconnected, and the call retried.

Final Handling Code 1306: An MF transmitter error on second EA outgoing call attempt to an OSPS.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** An OGT to OSPS was seized, and an MF transmitter error report was received during outpulsing. The OGT was idled with guard timing. The ICT was connected to reorder announcement.

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Final Handling Code 1307: An outgoing call to the OSPS position received an abandon from the position during call setup.

- (a) **Ineffective Attempt Type:** Unexpected Stop (UXS)
- (b) **Trunk Type:** MF
- (c) **Description:** An OGT to OSPS was seized, and a wink was received from the OSPS position. The OGT was idled with guard timing. The ICT was connected to reorder announcement.

Final Handling Code 1308: ISUPOGT handler received a backward release message with illegal announcement ID of none.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement of none. The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1309: ISUPOGT handler received a backward release message with announcement ID of Audible Ring.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of Audible Ring. The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1310: ISUPOGT handler received a backward release message with announcement ID of Reorder Tone.

- (a) **Ineffective Attempt Type:** CCIS Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of Reorder Tone. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1311: ISUPOGT handler received a backward release message with announcement ID of Busy Tone.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of Busy Tone. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1312: ISUPOGT handler received a backward release message with announcement ID of Test Progress tone.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of Test Progress tone. The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1313: ISUPOGT handler received a backward release message with announcement ID of Milliwatt Tone.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of Milliwatt Tone. The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1314: ISUPOGT handler received a backward release message with announcement ID of "No Circuit Available".

- (a) **Ineffective Attempt Type:** CCIS Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "No Circuit Available". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1315: ISUPOGT handler received a backward release message with announcement ID of "Vacant Code Announcement".

- (a) **Ineffective Attempt Type:** CCIS Outgoing Address Failure (ADF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "Vacant Code Announcement". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1316: ISUPOGT handler received a backward release message with announcement ID of "Reorder Announcement".

- (a) **Ineffective Attempt Type:** CCIS Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "Reorder Announcement". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1317: ISUPOGT handler received a backward release message with announcement ID of "Emergency Announcement 1".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Emergency Announcement 1". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1318: ISUPOGT handler received a backward release message with an announcement ID of "Emergency Announcement 2".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Emergency Announcement 2". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1319: ISUPOGT handler received a backward release message with a "Special Announcement 1" announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with a "Special Announcement 1" announcement. The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1320: ISUPOGT handler received a backward release message with a "Special Announcement 2" announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with a "Special Announcement 2" announcement. The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1321: ISUPOGT handler received a backward release message with "Idle Guard Timing" ID.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with illegal "Idle Guard Timing" announcement. The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1322: ISUPOGT handler received a backward release message with an announcement ID of "High and Wet".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an illegal announcement ID of "High and Wet". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1323: ISUPOGT handler received a backward release message with an announcement ID of "Idle No Guard Timing".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an illegal announcement ID of "Idle no Guard Timing". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1324: ISUPOGT handler received a backward release message with an announcement ID of "10 DB Tone".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an illegal announcement ID of "10 DB Tone". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1325: ISUPOGT handler received a backward release message with an announcement ID of "Misrouted CAMA".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Misrouted CAMA". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1326: ISUPOGT handler received a backward release message with an announcement ID of "SDN Egress Busy".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "SDN Egress Busy". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1327: ISUPOGT handler received a backward release message with an announcement ID of "PCP Call Failure".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "PCP Call Failure". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1328: ISUPOGT handler received a backward release message with an announcement ID of "Out of Band".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Out of Band". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1329: ISUPOGT handler received a backward release message with an announcement ID of "Emergency Announcement 3".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Emergency Announcement 3". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1330: ISUPOGT handler received a backward release message with an announcement ID of "Emergency Announcement 4".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Emergency Announcement 4". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1331: ISUPOGT handler received a backward release message with an announcement ID of "Emergency Announcement 5".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Emergency Announcement 5". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1332: ISUPOGT handler received a backward release message with an announcement ID of "Emergency Announcement 6".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Emergency Announcement 6". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1333: ISUPOGT handler received a backward release message with an announcement ID of "Emergency Announcement 7".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Emergency Announcement 7". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1334: ISUPOGT handler received a backward release message with an announcement ID of "Network Call Denial".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Network Call Denial". The call was failed. A backward failure will be initiated by the ICT.

Final Handling Code 1335: ISUPOGT handler received a backward release message with an announcement ID of "International No Circuit".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "International No Circuit". The call was failed. A backward failure will be initiated by the ICT.

Final Handling Code 1336: ISUPOGT handler received a backward release message with an announcement ID of "International Vacant Code".

- (a) **Ineffective Attempt Type:** CCIS Outgoing Address Failure (ADF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "International Vacant Code". The call was failed. A backward failure will be initiated by the ICT.

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Final Handling Code 1337: ISUPOGT handler received a backward release message with an announcement ID of "International Foreign Failure".

- (a) **Ineffective Attempt Type:** Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "International Foreign Failure". The call was failed. A backward failure will be initiated by the ICT.

Final Handling Code 1338: ISUPOGT handler received a backward release message with an announcement ID of "Service Not Active".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Service Not Active". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1339: ISUPOGT handler received a backward release message with an announcement ID of "Vacant MAS Announcement".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Vacant MAS Announcement". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1340: ISUPOGT handler received a backward release message with an announcement ID of "HICAP Out Of Time Slot".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "HICAP Out Of Time Slot". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1341: ISUPOGT handler received a backward release message with an announcement ID of "SUN Transit Outage".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "SUN Transit Outage". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1342: ISUPOGT handler received a backward release message with an announcement ID of "Vacant 800 Number".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Vacant 800 Number". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1343: ISUPOGT handler received a backward release message with an announcement ID of "Disconnected 800 Number".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Disconnected 800 Number". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1344: ISUPOGT handler received a backward release message with an announcement ID of "Temporary Disconnected 800 Number".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Temporary Disconnected 800 Number". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1345: ISUPOGT handler received a backward release message with an announcement ID of "INFO 1 ANI Failure".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "INFO 1 ANI Failure". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1346: ISUPOGT handler received a backward release message with an announcement ID of "LEC Egress Busy".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "LEC Egress Busy". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1347: ISUPOGT handler received a backward release message with an announcement ID of "Waiting For Answer Timeout".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Waiting For Answer Timeout". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1348: ISUPOGT handler received a backward release message with an announcement ID of "Intralata Call Screening".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Intralata Call Screening". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1349: ISUPOGT handler received a backward release message with an announcement ID of "Out of Area".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Out of Area". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1350: A barge-in type announcement was not allowed for a customer call to public announcement service for Automatic Number Identification (ANI) delivery capability.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS).
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only, Customer Call to Public Announcement Service (CCPAS) for ANI delivery capability was connected to audible ringing. Only a barge-in type announcement is allowed for ANI delivery capability. The caller will be connected to "Vacant Code" announcement.

Final Handling Code 1351: Automatic Number Identification (ANI) was retrieved but announcement is either unavailable, or Time Slot Interchange (TSI) port is pested, or duplex failure is encountered for Customer Call to Public Announcement Service (CCPAS) for ANI delivery capability.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only, CCPAS for ANI delivery capability. Automatic number identification (ANI) was retrieved. Either announcement is not available, or TSI port is pested, or a duplex failure was encountered. The customer will be connected to "Reorder" announcement.

Final Handling Code 1352: Acknowledgment was received that Automatic Number Identification (ANI) was delivered. The announcement is either unavailable, or the Time Slot Interchange (TSI) port is pested, or a duplex failure is encountered on a Customer Call to Public Announcement Service (CCPAS) for ANI delivery capability.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only, CCPAS for ANI delivery capability. The ANI was delivered and acknowledgment was received. The announcement was either not available, or the TSI port was pested, or a duplex failure was encountered. The customer will be connected to "Reorder" announcement.

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Final Handling Code 1353: Timed-out while waiting for acknowledgment on a Customer Call to Public Announcement Service (CCPAS) for Automatic Number Identification (ANI) delivery capability.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only, CCPAS for ANI delivery capability. The ANI was sent; timed out while waiting for the acknowledgment that ANI was delivered. Customer will be connected to the announcement that is identified in the mass announcement system announcement translator for acknowledgment failure. If none, reorder announcement will be used.

Final Handling Code 1354: Due to Automatic Number Identification (ANI) failure, tried cut-thru number. Failed to obtain cut-thru number on a Customer Call to Public Announcement Service (CCPAS) for ANI delivery capability.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only, CCPAS for ANI delivery capability. Tried cut-thru number. The customer will be connected to "Vacant Code" announcement.

Final Handling Code 1355: Network management carrier and/or code call gap blocked service switching point (SSP) call. Prints ported number gap digits.

- (a) **Ineffective Attempt Type:** MNM
- (b) **Trunk Type:** N/A
- (c) **Description:** This code occurs when the switch is restricted for Local Exchange Carrier (LEC) Local Number Portability (LNP) calls. Received LEC LNP calls with Location Routing Number (LRN) and ported number gap digits. The call was blocked by Network Management (NM) call gap control. Then the switch killed the call.

Final Handling Code 1359: Request to send Automatic Number Identification (ANI) and dialed digits to vendor. Special Access Data Channel (SADC) register message was returned.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was an ANI delivery service request to send ANI and dialed digits to the vendor. A SADC message with ANI and dialed digits was sent. The SADC message was returned by the ring. The customer will be connected to reorder announcement.

Final Handling Code 1360: Request to send Automatic Number Identification (ANI) and dialed digits to vendor. Signaling Connection Control Part (SCCP) ANI message was returned.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was an ANI delivery service request to send ANI and dialed digits to the vendor. A SCCP message with ANI and dialed digits was sent. The Channel Signaling 7 (CCS7) node. The customer will be connected to "Reorder" announcement.

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Final Handling Code 1361: Request to send Automatic Number Identification (ANI) and dialed digits to vendor. An excessive number of time-outs were encountered in 1 minute while waiting for vendor acknowledge.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was an ANI delivery service request to send ANI and dialed digits to the vendor. The customer was connected to audible ringing. An excessive number of time-outs were seen in 1 minute while waiting for the vendor to acknowledge a specific ANI delivery service index. The customer will be connected to "No Circuit" announcement.

Final Handling Code 1362: Request to send Automatic Number Identification (ANI) and dialed digits to the vendor. An excessive number of register messages were sent per link per second.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was an ANI delivery service request to send ANI and dialed digits to the vendor. The customer was connected to audible ring. An excessive number of register messages were sent to the vendor for a particular ANI delivery service index in 1 second. The customer will be connected to "No Circuit" announcement.

Final Handling Code 1363: Request to send Automatic Number Identification (ANI) and dialed digits to the vendor. Vendor rejected ANI and digits.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was a request to send ANI and dialed digits to the vendor. The ANI and dialed digits were sent to the vendor. The vendor rejected the ANI and dialed digits due to vendor equipment outage. The customer will be connected to "Reorder" announcement.

Final Handling Code 1364: Request to send Automatic Number Identification (ANI) and dialed digits to the vendor. Vendor received message containing invalid data.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was an ANI delivery service request to send ANI and dialed digits to the vendor. The ANI was retrieved; the customer was connected to audible ringing, and the CL-SCCP ANI message sent to the feature control office. The CL-SCCP ANID message contained an invalid ANI or dialed digits (none present) detected by the feature control office. The customer will be connected to "Reorder" announcement at the barge-in 4ESS Switch.

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Final Handling Code 1366: Request to send Automatic Number Identification (ANI) and dialed digits to the vendor. The link to the vendor is out-of-service.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was an ANI delivery service request to send the ANI and the dialed digits to the vendor. The ANI was retrieved, and the customer was connected to audible ringing. The special access data channel (SADC) link to the vendor is out-of-service—not call associated. The customer will be connected to the “Reorder” announcement at the barge-in office.

Final Handling Code 1367: Requested to send Automatic Number Identification (ANI) and dialed digits to the vendor. Common Network Interface (CNI) ring is down.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was an ANI delivery service request to send the ANI and the dialed digits to the vendor. The ANI was retrieved, and the customer was connected to audible ringing. The message cannot be sent because the CNI ring is down at the barge-in office. The customer will be connected to the “Reorder” announcement.

Final Handling Code 1368: Requested to send the Automatic Number Identification (ANI) and the dialed digits to the vendor; A translation error is encountered.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only. There was an ANI delivery service request to send the ANI and the dialed digits to the vendor. The ANI was retrieved, and the customer was connected to the audible ringing at the barge-in office. A translations error was encountered— vendor ID invalid or destination point code in the feature control office is 0 or L AC IDS in barge-in office is 0. The customer will be connected to the “Vacant Code” announcement.

Final Handling Code 1369: Requested to send Automatic Number Identification (ANI) and dialed digits to the vendor. The ANI delivery service index is equal to zero.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCPAS)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** Incoming trunk only: There was an ANI delivery service request to send the ANI and the dialed digits to the vendor. The ANI was retrieved, and the customer was connected to audible ringing. The ANI Delivery Service Index (ACSI) obtained from the translator is unassigned. The customer will be connected to the “Vacant Code” announcement at the barge-in office.

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Final Handling Code 1370: Call timed-out waiting for vendors acknowledgment or vendor reject received on a customer call to public announcement service for ANI delivery capability play alternate announcement.

- (a) **Ineffective Attempt Type:** Customer Call to Public Announcement System (CCP)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, DTMF, Q.931
- (c) **Description:** A caller was connected to audible ringing and sent to ANI. The call timed out while waiting for the vendors acknowledgement that the ANI was delivered or a vendor-reject message was received. The 4ESS Switch will clear PAS data associated with the old internal announcement identity (IAID) and plays an alternate announcement using the new internal announcement identity that is found in the MAS announcement translator.

Final Handling Code 1371: ISUPOGT handler received a backward release message with announcement ID of "AT&T Dial 1".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "AT&T Dial 1". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1372: ISUPOGT handler received a backward release message with an announcement ID of "Logging on Busy".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Logging on Busy". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1373: ISUPOGT handler received a backward release message with an announcement ID of "Unallocated Number".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Unallocated Number". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1374: ISUPOGT handler received a backward release message with an announcement ID of "Spare".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Spare". The call was failed, and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1375: ISUPOGT handler received a backward release message with an announcement ID of "Destination Out of Order".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "Destination Out of Order". The call was failed; a backward failure will be initiated by the ICT.

Final Handling Code 1376: ISUPOGT handler received a backward release message with an announcement ID of "International Subscriber Busy".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "International Subscriber Busy". The call was failed; a backward failure will be initiated by the ICT.

Final Handling Code 1377: ISUPOGT handler received a backward release message with an announcement ID of "E01 — Emergency Situation".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E01 — Emergency Situation". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1378: ISUPOGT handler received a backward release message with an announcement ID of “E02 — Severe Weather”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “E02 — Severe Weather”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1379: ISUPOGT handler received a backward release message with a “E03 — Facility Trouble” announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with a “E03 — Facility Trouble” announcement. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1380: ISUPOGT handler received a backward release message with a “E04 — Local Company Trouble” announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with a “E04 — Local Company Trouble” announcement. The call was failed, and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1381: ISUPOGT handler received a backward release message with a "E05 — Airplane Crash" announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E05 — Airplane Crash". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1382: ISUPOGT handler received a backward release message with an announcement ID of "E06 — Hurricane".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E06 — Hurricane". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1383: ISUPOGT handler received a backward release message with an announcement ID of "E07 — Flood".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E07 — Flood". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1384: ISUPOGT handler received a backward release message with an announcement ID of "E08 — Tornado".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E08 — Tornado". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1385: ISUPOGT handler received a backward release message with an announcement ID of "E09 — Forest Fire".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E09 — Forest Fire". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1386: ISUPOGT handler received a backward release message with an announcement ID of "E10 — Earthquake".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E10 — Earthquake". The call was failed, and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1387: ISUPOGT handler received a backward release message with an announcement ID of "E11 — Mudslide".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E11 — Mudslide". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1388: ISUPOGT handler received a backward release message with an announcement ID of "E12 — Major Network Outage".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E12 — Major Network Outage". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1389: ISUPOGT handler received a backward release message with an announcement ID of "E13 — Reserved DOM NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E13 — Reserved DOM NM". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1390: Bellcore Service Switching Point (SSP) translations found INWATS call-type word but this 4ESS Switch is not an INWATS OSO.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** Applies only to Bellcore SSP calls and only to the Number Services Routing (NSR) domain. Digits were received; call processing recognized the call as an SSP call, and translation of SSP-Carrier ID (CID) and SSP-Type of Service (TOS) has been started. The translation on CID + TOS (+ ITL + INTL) resulted in an INWATS call-type word but this 4ESS Switch is not an INWATS originating screening office—cannot process INWATS calls. The incoming trunk will be given final handling treatment—Vacant Code Announcement.

Final Handling Code 1391: Bellcore Service Switching Point (SSP) translations found invalid data in an SSP Number Services Data Block (NDB).

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** Applies only to Bellcore SSP calls and only to the Number Service Routing (NSR) domain. Digits were received, call processing recognized the call as an SSP call and translation of SSP-Carrier ID (CID) and SSP-Type of Service (TOS) has been started. Translations found invalid data in a NDB and translations cannot be completed. The incoming trunk will be given final handling treatment—Vacant Code Announcement. The following is additional dump data for documentation:

SVOGT = 0 — Problem is in first NDB.

SVOGT = 79 — Problem is in second NDB.

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Final Handling Code 1392: Outgoing trunk hunt for a Bellcore Service Switching Point (SSP) call failed to find an idle outgoing trunk.

- (a) **Ineffective Attempt Type:** No Circuit Available (NCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** Applies only to Bellcore SSP calls. An SSP call has been recognized; digit translation completed, and the outgoing trunk hunt for this SSP call has been started. No idle trunk could be found by trunk hunt for this SSP call. The incoming trunk will be given the Final Handling Treatment (FHT) specified (ODA/RC input) as FHT for the first routing data block associated with the SSP number services data block (NDB).

Final Handling Code 1393: Outgoing trunk hunt for a Bellcore service switching point (SSP) call was started. Call register was loaded with a routing data block (RDB) from a transmit time slot interchange (TTSI) block which indicates an invalid attempt to route using dynamic non-hierarchical routing (DNHR).

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** Applies only to Bellcore SSP calls. An SSP call has been recognized; digit translation completed, and the outgoing trunk hunt for this SSP call has been started. Trunk hunt attempted to route this SSP call using DNHR. Call processing does not support SSP calls using DNHR. The incoming trunk will be given final handling treatment—Vacant Code Announcement—and the outgoing trunk will be idled in memory.

Final Handling Code 1394: Digit reception and analysis pidents, when translating the carrier ID, have the problem that the carrier ID translator can only point to an SSP "check subscribed footprint area" calltype for non-international calls.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF,DP,ISUP
- (c) **Description:** The call type translation determined this to be an SSP call, and the carrier ID to subscribed footprint area translations fails. The switch drops the call.

Final Handling Code 1395: The called number was not in the subscribed footprint area, so that the attempt was made to retranslate the carrier ID (along with the DRTC and circuit code) to get routing to the carrier, but that failed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF,DP,ISUP
- (c) **Description:** Digit translation indicates that the called party number was legitimate. However, the subscribed footprint area does not allow this carrier to complete this call. The switch drops the call.

Final Handling Code 1396: Digit reception (DR) LEC AIN after an initial query (AIQ), the called number was not in the subscribed footprint area, so that the attempt was made to retranslate the carrier ID (along with data rate transport capability (DRTC) ADN circuit code) to get routing to the carrier, but that failed.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** MF,DP,ISUP
- (c) **Description:** This code occurs on AIN queries for which the response indicates the call should be routed to a carrier. The carrier routed to indicates that the called number should be analyzed for footprint routing and was "out of footprint". The called party number was not legitimate, and carrier translations do not exist or are invalid for this route attempt. The switch finals the call and idles all associated resources.

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Final Handling Code 1397: Digit reception BOC SSP response, the called number was not in the subscribed footprint area so that the attempt was made to retranslate the carrier ID (along with DRTC and circuit code) to get routing to the carrier but that failed.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** MF,DP,ISUP
- (c) **Description:** Digit translations indicate that the called party number is not legitimate (out of footprint). Carrier translations do not exist or are invalid for this route attempt. The switch finals call and idles all associated resources.

Final Handling Code 1398: Digit reception attempting to translate carrier ID in Number Services Routing (NSR) on SSP call type without SCP data base query and was told to check footprint. The called number was not in the subscribed footprint area so that the attempt was made to retranslate the carrier ID (along with DRTC and circuit code) to get routing to the carrier but that failed.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** MF,DP,ISUP
- (c) **Description:** Digit translations indicate that the called party number is not legitimate (out of footprint). Carrier translations do not exist or are invalid for this route attempt. The switch finals call and idles all associated resources.

Final Handling Code 1399: 8YY call blocked due to payphone restrictions.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** MF,ISUP
- (c) **Description:** This code occurs on an 8YY call received from a payphone with II/OLI of 27,29, or 70. The message is successfully received from the NCP by the switch and the NCP determines that the call should be blocked. The switch attempts to play a customized announcement and final handles the call.

Final Handling Code 1422: COT failed message received while CCITT was waiting for COT

- (a) **Ineffective Attempt Type:** CCIS Continuity Check Failure (CKF)
- (b) **Trunk Type:** ITUP
- (c) **Description:** A continue (COT) failure message was received while a call was being setup for a CCITT #7 Telephone User Part (TUP) incoming trunk. The 4ESS Switch waits 4 minutes for release guard (RLG). If there is no RLG within that time, the 4ESS Switch sends a reset circuit (RSC) and waits for RLG.

Final Handling Code 1429: ISUPOGT handler received a backward release message with announcement ID of "E14 — Reserved DOM NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "E14 — Reserved DOM NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1430: ISUPOGT handler received a backward release message with announcement ID of "E15 — Reserved DOM NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "E15 — Reserved DOM NM". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1431: ISUPOGT handler received a backward release message with announcement ID of "E16 — Reserved DOM NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "E16 — Reserved DOM NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1432: ISUPOGT handler received a backward release message with announcement ID of "E17 — Reserved DOM NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "E17 — Reserved DOM NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1433: ISUPOGT handler received a backward release message with announcement ID of "E18 — Reserved DOM NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "E18 — Reserved DOM NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1434: ISUPOGT handler received a backward release message with announcement ID of "E19 — Reserved DOM NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E19 — Reserved DOM NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1435: ISUPOGT handler received a backward release message with an announcement ID of "E20 — Reserved DOM NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "E20 — Reserved DOM NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1436: ISUPOGT handler received a backward release message with an announcement ID of "R01 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R01 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1437: ISUPOGT handler received a backward release message with an announcement ID of "R02 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R02 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1438: ISUPOGT handler received a backward release message with an announcement ID of "R03 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R03 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1439: The ISUPOGT handler received a backward release message with an announcement ID of "R04 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R04 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1440: ISUPOGT handler received a backward release message with an announcement ID of "R05 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R05 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1441: ISUPOGT handler received a backward release message with an announcement ID of "R06 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R06 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1442: ISUPOGT handler received a backward release message with an announcement ID of "R07 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R07 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1443: ISUPOGT handler received a backward release message with an announcement ID of "R08 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R08 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1444: ISUPOGT handler received a backward release message with an announcement ID of "R09 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R09 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1445: ISUPOGT handler received a backward release message with an announcement ID of "R10 — Dialing Plan Change — DOM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "R10 — Dialing Plan Change — DOM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1446: ISUPOGT handler received a backward release message with announcement ID of "I01 — INTL Emergency Situation".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I01 — INTL Emergency Situation". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1447: ISUPOGT handler received a backward release message with an announcement ID of "I02 — INTL Severe Weather".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I02 — INTL Severe Weather". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1448: ISUPOGT handler received a backward release message with an announcement ID of "I03 — INTL Telephone Company".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I03 — INTL Telephone Company". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1449: ISUPOGT handler received a backward release message with an announcement ID of "I04 — INTL Airplane Crash".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I04 — INTL Airplane Crash". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1450: The ISUPOGT handler received a backward release message with an announcement ID of "I05 — INTL Earthquake".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I05 — INTL Earthquake". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1451: The ISUPOGT handler received a backward release message with an announcement ID of "I06 — INTL Mudslide".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR is sent by ISUPOGT. A release message is received with an announcement ID of "I01 — INTL Mudslide". The call is failed, and the ICT initiates Backward Failure.

Final Handling Code 1452: The ISUPOGT handler received a backward release message with an announcement ID of "I07 — INTL fire".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR is sent by ISUPOGT. A release message is received with an announcement ID of "I07 — INTL Fire". The call is failed, and the ICT initiates Backward Failure.

Final Handling Code 1453: The ISUPOGT handler received a backward release message with an announcement ID of "I08 — Reserved INTL NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR is sent by ISUPOGT. A release message is received with an "I08 — Reserved INTL NM". The call is failed, and the ICT initiates Backward Failure.

Final Handling Code 1454: The ISUPOGT handler received a backward release message with an "I09 — INTL direct dialing SUSP" announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR is sent by ISUPOGT. A release message is received with an "I09 — INTL direct dialing suspended (SUSP)" announcement. The call is failed, and the ICT initiates Backward Failure.

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Final Handling Code 1455: The ISUPOGT handler received a backward release message with an "I10 — INTL Direct Dialing Test" announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an "I10 — INTL Direct Dialing Test" announcement. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1456: The ISUPOGT handler received a backward release message with an "I11 — INTL Dialing Plan" announcement.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I11 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1457: The ISUPOGT handler received a backward release message with an announcement ID of "I12 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I12 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1458: The ISUPOGT handler received a backward release message with an announcement ID of "I13 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I13 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1459: The ISUPOGT handler received a backward release message with an announcement ID of "I14 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I14 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1460: The ISUPOGT handler received a backward release message with an announcement ID of "I15 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I15 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1461: The ISUPOGT handler received a backward release message with an announcement ID of "I16 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I16 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1462: The ISUPOGT handler received a backward release message with an announcement ID of "I17 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I17 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1463: ISUPOGT handler received a backward release message with an announcement ID of "I18 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I18 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1464: ISUPOGT handler received a backward release message with an announcement ID of "I19 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I19 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1465: ISUPOGT handler received a backward release message with announcement ID of "I20 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I20 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1466: ISUPOGT handler received a backward release message with an announcement ID of "I21 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I21 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1467: ISUPOGT handler received a backward release message with announcement ID of "I22 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "I22 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1468: ISUPOGT handler received a backward release message with an announcement ID of "I23 — INTL Dialing Plan".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I23 — INTL Dialing Plan". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1469: ISUPOGT handler received a backward release message with an announcement ID of "I24 — Reserved INTL NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I24 — Reserved INTL NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1470: The ISUPOGT handler received a backward release message with an announcement ID of "I25 — Reserved INTL NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I25 — Reserved INTL NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1471: The ISUPOGT handler received a backward release message with an announcement ID of "I26 — Reserved INTL NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I26 — Reserved INTL NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1472: ISUPOGT handler received a backward release message with an announcement ID of "I27 — Reserved INTL NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I27 — Reserved INTL NM". The call was failed and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1473: ISUPOGT handler received a backward release message with an announcement ID of "I28 — Reserved INTL NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I28 — Reserved INTL NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1474: ISUPOGT handler received a backward release message with an announcement ID of "I29 — Reserved INTL NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I29 — Reserved INTL NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1475: ISUPOGT handler received a backward release message with an announcement ID of "I30 — Reserved INTL NM".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "I30 — Reserved INTL NM". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1476: ISUPOGT handler received a backward release message with an announcement ID of "S01 — Spare".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "S01 — Spare". The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1477: ISUPOGT handler received a backward release message with an announcement ID of "S02 — Spare".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of "S02 — Spare". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1478: The ISUPOGT handler received a backward release message with an announcement ID of "S03 — Spare".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "S03 — Spare". The call was failed, and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1479: The ISUPOGT handler received a backward release message with an announcement ID of “S04 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S04 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1480: The ISUPOGT handler received a backward release message with an announcement ID of “S05 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S05 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1481: ISUPOGT handler received a backward release message with announcement ID of S06 — Spare.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of S06 — Spare. The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1482: ISUPOGT handler received a backward release message with announcement ID of S07 — Spare.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of S07 — Spare. The call was failed and a Backward Failure will be initiated by the ICT.

Final Handling Code 1483: ISUPOGT handler received a backward release message with an announcement ID of “S08 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S08 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1484: The ISUPOGT handler received a backward release message with an announcement ID of “S09 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with announcement ID of “S09 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1485: ISUPOGT handler received a backward release message with an announcement ID of “S10 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S10 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1486: ISUPOGT handler received a backward release message with an announcement ID of “S11 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S11 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1487: ISUPOGT handler received a backward release message with an announcement ID of “S12 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S12 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1488: ISUPOGT handler received a backward release message with an announcement ID of "S13 — Spare".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "S13 — Spare". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1489: ISUPOGT handler received a backward release message with an announcement ID of "S14 — Spare".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "S14 — Spare". The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1490: ISUPOGT handler received a backward release message with an announcement ID of "S15 — Spare".

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of "S15 — Spare". The call was failed, and a Backward Failure will be initiated by the ICT.

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Final Handling Code 1491: The ISUPOGT handler received a backward release message with an announcement ID of “S16 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S16 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1492: ISUPOGT handler received a backward release message with an announcement ID of “S17 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S17 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1493: ISUPOGT handler received a backward release message with an announcement ID of “S18 — Spare”.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of “S18 — Spare”. The call was failed, and a Backward Failure will be initiated by the ICT.

Final Handling Code 1494: The ISUPOGT handler received a backward release message with an announcement ID value greater than 127.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID greater than 127. The call was failed; a backward failure will be initiated by the ICT.

Final Handling Code 1495: ISUPOGT handler received a backward release message with an announcement ID of 17 which is unassigned.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by ISUPOGT. A release message was received with an announcement ID of 17. The call was failed. A backward failure will be initiated by the ICT.

Final Handling Code 1497: Call progress message was received on the ISUP outgoing trunk but have not sent continuity message.

- (a) **Ineffective Attempt Type:** CCIS Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The IAM has been sent, and call progress message has been received. The continuity message has not been sent, and the voice path assurance test has not passed. A release message was sent with cause of temporary failure (value = 41).

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Final Handling Code 1498: The ISUPOGT handler did not receive an answer message before its timer expired.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The IAM, COT, and address complete messages have been sent, and the VPA test has passed. The ISUPOGT is waiting for an answer message, but the timer expires before an answer message is received. The OGT will be cleared by sending a release sequence.

Final Handling Code 1512: The outgoing trunk cannot send the 3-digit carrier ID because the first digit of the 4-digit carrier ID is not telco BCD 0.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF Only (ISUP, CCITT5, or CITT6)
- (c) **Description:** An OGT was selected. The OGT was asked to send a 3-digit carrier ID but the first digit of the 4-digit interval representation carrier ID is not a telco BCD 0. The call was finaled and given reorder treatment.

Final Handling Code 1513: Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 6~digit level without finding Positive Look Up (PLU) entry, checked the 7~digit translator for reserved and found the DN was reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN and Ported Number GAP from ISUP signaling. Translated the DN and found reserved marking at the 7~digit level. No routing data provisioned for DN. The switch will treat the call with vacant code handling.

Final Handling Code 1514: Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 6~digit level without finding PLU entry, checked the 7~digit translator for reserved and found the DN was not reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN and Ported Number GAP from ISUP signaling. Translated the DN and found it not reserved at the 7~digit level. No routing data provisioned for DN. The switch will send a release message with American National Standards Institute (ANSI) cause code 26.

Final Handling Code 1515: Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found the DN was reserved and not ported out.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN and Ported Number GAP from ISUP signaling. Translated the DN and found at the 10~digit PLU and Number reserved and not ported out. No routing data provisioned for DN. The switch will treat the call with vacant code handling.

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Final Handling Code 1516: Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was ported out.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN and Ported Number GAP from ISUP signaling. Translated the DN and found at the 10~digit PLU and Number ported out. No routing data provisioned for DN. The switch will send a release message with American National Standards Institute (ANSI) cause code 26.

Final Handling Code 1517: Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was not reserved and not ported out. Checked the 7~digit translator for reserved and found the DN was reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN and Ported Number GAP from ISUP signaling. Translated the DN and found at the 10~digit PLU and Number not reserved and not ported out, and found marked reserved at the 7~digit level. No routing data provisioned for DN. The switch will treat the call with vacant code handling.

Final Handling Code 1518: Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was not reserved and not ported out. Checked the 7~digit translator for reserved and found the DN was not reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN and Ported Number GAP from ISUP signaling. Translated the DN and found at the 10~digit PLU and Number not reserved and not ported out, and found not marked reserved at the 7~digit level. No routing data provisioned for DN. The switch will send release message with American National Standards Institute (ANSI) cause code 26.

Final Handling Code 1519: Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Tried to translate the DN at the 10~digit level in the PLU but no entry - was using a 6~digit default PLU routing. Checked the 7~digit translator for reserved and found the DN was reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN and Ported Number GAP from ISUP signaling. Translated the DN and was not found at the 10~digit PLU entry, but found reserved marking at the 7~digit level. No routing data provisioned for DN. The switch will treat the call with vacant code handling.

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Final Handling Code 1520: Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Tried to translate the DN at the 10~digit level in the PLU but no entry - was using 6~digit default PLU routing. Checked the 7~digit translator for reserved and found the DN was not reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN and Ported Number GAP from ISUP signaling. Translated the DN and did not find at the 10~digit PLU entry, and did not find reserved marking at the 7~digit level. No routing data provisioned for DN. The switch will send release message with American National Standards Institute (ANSI) cause code 26.

Final Handling Code 1521: Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 6~digit level without finding PLU entry. Checked the 7~digit translator for reserved and found the DN was reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN from LNP NCP database. Translated the DN and found reserved marking at the 7~digit level. No routing data provisioned for DN. The switch will treat the call with vacant code handling.

Final Handling Code 1522: Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 6~digit level without finding PLU entry. Checked the 7~digit translator for reserved and found the DN was not reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN from LNP NCP database. Translated the DN and did not find reserve marking at the 7~digit level. No routing data provisioned for DN. The switch will play reorder tone with American National Standards Institute (ANSI) cause code 26.

Final Handling Code 1523: Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the PHT PLU CALLTYPE found DN was reserved and not ported out.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN from LNP NCP database. Translated the DN and found at the 10~digit PLU and Number reserved and not ported out. No routing data provisioned for DN. The switch will treat the call with vacant code handling.

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Final Handling Code 1524: Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was ported out.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN from LNP NCP database. Translated the DN and found at the 10~digit PLU and Number ported out. No routing data provisioned for DN. The switch will play reorder tone with American National Standards Institute (ANSI) cause code 26.

Final Handling Code 1525: Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was not reserved and not ported out. Checked the 7~digit translator for reserved and found the DN was reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN from LNP NCP database. Translated the DN and found at 10~digit PLU and Number not reserved and not ported, and found reserved at the 7~digit level. No routing data provisioned for DN. The switch will treat the call with vacant code handling.

Final Handling Code 1526: Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the PHT PLU CALLTYPE found DN was not reserved and not ported out. Checked the 7~digit translator for reserved and found the DN was not reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN from LNP NCP database. Translated the DN and found at 10~digit PLU and Number not reserved and not ported, and found not reserved at the 7~digit level. No routing data provisioned for DN. The switch will play reorder tone with American National Standards Institute (ANSI) cause code 26.

Final Handling Code 1527: Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Tried to translated the DN at the 10~digit level in the PLU but no entry - was using 6~digit default PLU routing. Checked the 7~digit translator for reserved and found the DN was reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN from LNP NCP database. Translate the LRN and not found at 10~digit PLU entry, but found reserved at the 7~digit level. No routing data provisioned for LRN. The switch will treat the call with vacant code handling.

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Final Handling Code 1528: Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Tried to translated the DN at the 10~digit level in the PLU, but no entry - was using 6~digit default PLU routing. Checked the 7~digit translator for reserved and found the DN was not reserved.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN from LNP NCP database. Translated the DN and did not find a 10~digit PLU entry, and did not find reserved marking at the 7~digit level. No routing data provisioned for DN. The switch will play reorder tone with American National Standards Institute (ANSI) cause code 26.

Final Handling Code 1529: A Location Routing Number (LRN) was received as the called party number on an Local Service Provider (LSP)-LOCAL type of Integrated Services Digital Network User Port (ISUP) trunk and upon checking this LRN found that it does not belong to this switch.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurred when the switch received its LRN as called party number on LSP-LOCAL trunk. Switch checked if the called party number was in the LRN table to determine if LRN belonged to the switch. The LRN does not belong to this switch. The switch will send a release message with cause code~41 temporary failure.

Final Handling Code 1541: ITUP OGT Handler received an invalid or out-of-sequence message during setup.

- (a) **Ineffective Attempt Type:** Unreasonable signal (URS)
- (b) **Trunk Type:** ITUP
- (c) **Description:** Call setup was proceeding correctly for a CCITT #7 Telephone User Part (TUP) outgoing trunk. An invalid or out-of-sequence message was received while in the call setup state. The 4ESS sends a reset circuit (RSC) and waits for release guard (RLG). A reorder announcement is sent to the calling party.

Final Handling Code 1551: ITUP OGT VPA Test timed out on final try.

- (a) **Ineffective Attempt Type:** CCIS Continuity Check Failure (CKF)
- (b) **Trunk Type:** ITUP
- (c) **Description:** A CCITT #7 International Telephone User Part (TUP) outgoing trunk had successfully started the VPA test and sent an Initial Address Message (IAM). The VPA test timed out before passing and the call was retried. The 4ESS Switch idles the outgoing trunk, runs a Voice Path Assurance (VPA) test on the trunk, and sends the international reorder announcement to the caller.

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Final Handling Code 1571: International Telephone User Part (ITUP) Outgoing trunk (OGT) receives a Circuit Group Congestion (CGC) message after call setup

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** DFLT
- (c) **Description:** This code applies only to the trunk with TUP signaling characteristics at an International switching center. An Address Complete message (ACM) is received, and the call is waiting for an answer. A Backward message is received indicating "CGC in the Foreign Network" treatment is required. The call is failed, and the caller is connected to the International Foreign Failure announcement.

Final Handling Code 1572: ITUP outgoing trunk receives a NNC message after a call setup

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) National Congestion (NCS)
- (b) **Trunk Type:** DFLT
- (c) **Description:** This condition applies only to the trunk with TUP signaling characteristics at an International Switching Center. An ACM is received, and the call is waiting for an answer. A Backward message is received indicating "Network Congestion in the Foreign Network" treatment is needed. The call is failed, and the caller is connected to an International Foreign Failure announcement.

Final Handling Code 1573: ITUP outgoing trunk receives a Call Failure (CFL) message after a call setup

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** DFLT
- (c) **Description:** This code applies only to the trunk with telephone user part signaling characteristics at an International Switching Center. An Address Complete message (ACM) is received, and the call is waiting for an answer. A Backward message is received indicating "Network Congestion in a Foreign Country" treatment is required. The call is failed, and the caller is connected to an International Foreign Failure announcement.

Final Handling Code 1575: OGT could not send IAM because called number contained more than 14 digits.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** CCITT 7 TUP
- (c) **Description:** The CCITT #7 ITUP outgoing trunk was selected and began building the IAM. The trunk could not send the IAM message because the called number contained more than 14 digits. The 4ESS Switch idles the outgoing trunk and releases the incoming trunk with address incomplete behavior.

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Final Handling Code 1576: Q.931 Release Complete message with CS=81 is received while in an incoming setup state

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition occurs only when the incoming trunk (ICT) is Q.931. The Incoming Setup message is processed, and a Call Proceeding Message is sent. The data communications network (DCN) responds to a 1B message with a release complete that has a Cause of 81 [invalid call reference value (CRV)]; this indicates a 1B/DCN state mismatch.

Final Handling Code 1577: A Q.931 Release Complete message is received with CS=81 while in an incoming stable state

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition applies only when the incoming trunk is Q.931. A call reaches the stable state; a Release Complete message is received, probably in response to a message sent by the 1B Processor. The switch places the incoming trunk high and wet (H&W).

Final Handling Code 1578: Q.931 Release Complete message with CS=81 is received while in an outgoing setup state

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition occurs when the outgoing trunk is Q.931. A Setup message is sent, and a Release Complete message with a Cause of 81 is received. The outgoing trunk is placed high and wet (H&W).

Final Handling Code 1579: Q.931 Release Complete message with a CS=81 is received while in an outgoing stable state

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition occurs when the outgoing trunk is Q.931. A call reaches an outgoing stable state, and a Release Complete message with a Cause of 81 is received. The outgoing trunk is placed high and wet (H&W)

Final Handling Code 1580: A Q.931 Release Complete message with a CS=81 is received while in the clearing state

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition occurs when the trunk is Q.931. A call starts clearing procedures, and a Release Complete message with a Cause of 81 is received. The associated trunk is placed high and wet (H&W).

Final Handling Code 1581: A Setup Message is received in the incoming setup state

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition occurs when the trunk is Q.931. A Setup message is successfully processed, and a second Setup message arrives. A Release Complete message is sent on the incoming trunk, and the outgoing trunk is idled.

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Final Handling Code 1582: A Setup message is received on a Q.931 incoming trunk that is in the Incoming Stable state

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition occurs when the trunk is Q.931. A call reaches the Incoming Stable state, and another Setup message is received. A Release Complete message is sent.

Final Handling Code 1583: A Setup message is received on a Q.931 outgoing trunk that is in the outgoing Stable state

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition occurs when the trunk is Q.931. A call reaches the Outgoing Stable state, and a second Setup message is received. A Release Complete message is sent on the outgoing trunk, and the incoming trunk is idled.

Final Handling Code 1584: An outgoing call fails the second rehunt when a Release Complete message with a Cause 44 is received

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This condition occurs when the trunk is Q.931. A Setup message is sent, and a Release Complete is received on the second rehunt with a Cause of 44. The incoming trunk is idled.

Final Handling Code 1585: A Setup message is received on a Q.931 outgoing trunk in the outgoing setup state

- (a) **Ineffective Attempt Type:** Query Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This code occurs when the outgoing trunk is Q.931. A call procedure, program, or alert message is received, and a Setup message is received. A Release Complete message is sent on an outgoing trunk, and the incoming trunk is idled.

Final Handling Code 1589: On a 1+500 EasyReach Call with CALIPER featured enabled, Bill-to-Indicator digits not received from 2DSA/NCP.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** All Incoming
- (c) **Description:** This code occurs on EasyReach calls with CALIPER feature enabled. A query is sent to 2DSA/NCP and the response received from the database has incorrect data. The switch terminates the call.

Final Handling Code 1590: Redirection information received from the NCP was invalid——call irregularity report only.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** A Direct Services Dialing Capability (DSDC) Transaction Capabilities Application Port (TCAP) call has queried the database and received a response that contained erroneous redirection information. Parameters in the redirection information were missing and/or invalid redirection information was received. The TCAP response was received from the NCP and normal message parsing was started. The 4ESS Switch ignores the redirection information and processes the call as if that redirection operation had not been received.

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Final Handling Code 1591: A digit was lost by the SCS frame.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call using NSCX type services for SCS, a digit collection order was sent to the SCS frame. A digit was lost by the SCU. The 4ESS Switch final handled the call (reorder) and an end return error was returned to the NCP.

Final Handling Code 1592: A bad announcement number was received from the NCP.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call using NSCX type services for SCS, SCS received a bad announcement number originating from the NCP. Play announcement orders were sent to the SCS frame with announcement IDs originated from the NCP. An NCP-provided announcement ID is not defined in the SCS frame for a particular announcement set. The call is final handled (reorder) and an end return error is sent to the NCP.

Final Handling Code 1593: A bad announcement number was reported from ODA data.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call using NSCX type services for SCS, SCS received a bad announcement number originating from ODA. Play announcement orders were sent to the SCS frame with announcement IDs that were originated from ODA data. An ODA defined announcement ID is not defined in the SCS frame for a particular announcement set. The 4ESS Switch final handled the call (reorder) and an end return error will be returned to the NCP.

Final Handling Code 1594: A bad SCU state report was received from SCS.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call using NSCX type services for SCS, orders to play an announcement and/or called digits were sent to the SCS frame. The SCU was in an invalid processing state. The 4ESS Switch final handled the call (reorder) and an end return error will be returned to the NCP.

Final Handling Code 1595: A bad list order was received from SCS.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call using NSCX type services for SCS, an invalid order (such as a request for digit collection) was sent to the SCS frame within an announcement list. The 4ESS Switch final handled the call (reorder) and an end return error will be returned to the NCP.

Final Handling Code 1596: A bad announcement set order was received from SCS.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call using NSCX services for SCS, orders to play an announcement and/or collect digits were sent to the SCS frame. The frame does not have announcements for this announcement set. The 4ESS Switch final handled the call (reorder) and an end return error will be returned to the NCP.

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Final Handling Code 1597: An unexpected NCP command was received.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call using NSCX type services for SCS, an NCP command was received to execute another caller interaction before the current one was completed. An SCS part was hunted and connected. The 4ESS Switch final handles the call (reorder) and an end return error will be returned to the NCP.

Final Handling Code 1598: Caller interaction commands could not be stored in the CR.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call waiting for COT before using NSCX type services for SCS, a caller interaction request was received from the NCP. There was insufficient space in the CR to store caller interaction commands until COT is received. The 4ESS Switch final handles (reorder) the call and sends an end return error to the NCP.

Final Handling Code 1599: Caller interaction requested by the NCP could not be executed.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** On a Direct Services Dialing (DSD) call using NSCX type services for SCS, a caller interaction request was received from the NCP. The caller interaction could not be translated into peripheral orders to the SCS frame because the parameter data was invalid. The 4ESS Switch final handles (reorder) the call and sends an end return error to the NCP.

Final Handling Code 1602: 4ESS Switch TCAP detects errors while processing a response message from the CAS R5 NCP.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** A CCV EESP query message was sent to the CAS R5 NCP while the call was in the talking state. While processing the response message received from the CAS R5 NCP, TCAP detected some error(s), i.e. mandatory parameter missing. The 4ESS Switch sends a facility message or release complete message (NCAT calls) with component = return error and cause value = temporary failure to the BV_S. The call is not finaled.

Final Handling Code 1603: Abort message or reject message returned from CAS R5 database.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** An ESP/CCV query message was sent to the CAS R5 NCP while the call was in the talking state. An abort or reject message was received from the CAS R5 NCP due to network problems. The 4ESS Switch sends a facility message or release complete message with error value = abort, and cause value = normal unspecified, to the BV_S. The call is not finaled.

Final Handling Code 1604: Query to CAS R5 is blocked by 4ESS Switch due to ACG in effect.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** A CCV EESP request is received from the BV_S while the call is in the talking state. The query was blocked by the 4ESS Switch because ACG is in effect. The CAS R5 NCP is overloaded. The 4ESS Switch sends a facility message or release complete message (for non-associated calls) with component = return error and cause value = temporary failure to the BV_S. The call is not finaled.

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Final Handling Code 1605: Returned query — unit data service message.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** A CCV EESP query message was sent while the call was in the talking state. The query message was returned due to:
 - Network failure
 - Network congestion
 - Subsystem failure
 - Subsystem congestion.

The 4ESS Switch sends a facility message or release complete message (NCAT calls) with component = return error and cause value = temporary failure to the BV_S. The call is not finaled.

Final Handling Code 1606: Response from the CAS R5 database — TCAP error code.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Any
- (c) **Description:** A CCV EESP query was sent to the CAS R5 while the call was in the talking state. The CAS R5 NCP cannot process the query or cannot find the record. Therefore, the database returned an end return error message to the 4ESS Switch with a specific error code. The 4ESS Switch sends a facility message or release complete error message (NCAT calls) with component = return error and cause value, which is mapping to TCAP error code, to the BV_S. The call is not finaled.

Final Handling Code 1607: An error occurred when processing a DSD-TCAP call which required Conversant Voice Information System (CVIS) services.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** When attempting to set up an SDN NRA sequence call via CVIS, the Q.931 returned a failure code indicating that a message cannot be sent to a Conversant SDU. An end-return error message was sent to the NCP, and the call was final handled.

Final Handling Code 1608: SDN-NRA sequence dialing call via CVIS — report only

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931
- (c) **Description:** During an attempt to set-up an SDN-NRA sequence call via CVIS, the NCP detected a customer error and requested the 4ESS Switch to disconnect the call in the sequence. The “CVIS” announcement was played, and the call was cleared.

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Final Handling Code 1609: The acceptable digit count for an SDN call using the DCIS6 protocol is incorrect in the call-type word.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931
- (c) **Description:** The digits were received and translated into a DSD call type. The acceptable digit count in the call type word did not agree with the digit count required for this type of DSD call. The call was canceled and reorder was sent.

Final Handling Code 1610: The acceptable digit count for a dialed-number-based call, using the DCIS6 protocol in the call type word, is incorrect.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP, Q.931, DTMF
- (c) **Description:** Received digits were translated into a DSD type call. The acceptable digit count in the call-type word does not agree with the digit count required for this type of DSD call. The call was canceled and reorder sent.

Final Handling Code 1611: A Transaction Capabilities Application Part (TCAP) protocol abort message was sent or received on a Direct Services Dialing (DSD) call.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a TCAP-A800 or TCAP-Software Defined Network (SDN) call. A query was sent to the appropriate database and processing began on a TCAP message received from the database. A TCAP protocol error was encountered while processing the message or a "P-ABORT" message was received from the database. The call will be cancelled and reorder is sent. The exception code denoting the error that was encountered will be stored in CR4OGTSV so that the office trap will print the reason. The trap message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Volume 2, Table F.

Final Handling Code 1612: A Transaction Capabilities Application Part (TCAP) user abort message was sent or received on a Direct Services Dialing (DSD) call.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a TCAP-A800 or TCAP-Software Defined Network (SDN) call. A query was sent to the appropriate database and processing began on a TCAP message received from the database. A TCAP user error was encountered while processing the message or a 'U-ABORT' message was received from the database. The call will be cancelled and reorder will be sent. The exception code denoting the error will be stored in CR4OGTSV so that the office trap will print the reason. The trap message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Volume 2, Table F.

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Final Handling Code 1613: A time-out occurred while processing a Direct Service Dialing (DSD) call.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** A time-out has occurred while processing a Transaction Capabilities Application Part (TCAP)-DSD call. A message from the NCP has been processed. The amount of time allotted to wait for more messages from the NCP elapsed. The call will be cancelled and reorder will be sent.

Final Handling Code 1614: A Transaction Capabilities Application Part (TCAP) message was returned by the direct link node (DLN).

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a TCAP-A800 or TCAP-Software Defined Network (SDN) call. An attempt was made to send the query to the database. The DLN returned the message because an error in the message was found by the DLN. The call will be cancelled and National Trunk Congestion (NTC) will be sent. Network management controls are installed. The caller will receive "No Circuit Announcement (NCA)".

Final Handling Code 1615: A Transaction Capabilities Application Part (TCAP) message was returned by Common Network Interface (CNI).

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a TCAP-A800 or TCAP-Software Defined Network (SDN) call. An attempt was made to send the query to the database. The CNI returned the message because CNI could not send the message. The call will be cancelled and National Trunk Congestion (NTC) will be sent. Network management controls are installed. The caller will receive No Circuit Announcement (NCA).

Final Handling Code 1616: A unit data service message was received.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a Transaction Capabilities Application Part (TCAP)-Software Defined Network (SDN) or TCAP-A800 call. An attempt was made to send the query to the database. The Signal Transfer Point (STP) returned the message due to link congestion. The call will be cancelled, and National Trunk Congestion (NTC) will be sent. Network management controls are installed. The caller will receive "No Circuit Announcement (NCA)".

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Final Handling Code 1617: A request to disconnect and final the Direct Services Dialing (DSD) call has been received.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a Transaction Capabilities Application Part (TCAP)-Software Defined Network (SDN) or TCAP-A800 call. A TCAP-SDN or TCAP-A800 call was being processed. An exception condition occurred that caused the NCP to issue a disconnect. The call will be cancelled, and reorder will be sent. The exception code will be stored in CR4OGTSV for use in the office trap. The trap message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Volume 2, Table F.

Final Handling Code 1618: A routing number from the database is in error.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a Transaction Capabilities Application Part (TCAP)-Software Defined Network (SDN) or TCAP-A800 call. A TCAP-SDN or TCAP-A800 call was being processed. An error was found in the routing data received from the database. The call will be cancelled and vacant code will be sent.

Final Handling Code 1619: A request for a Network Control Point (NCP) transfer was made and it was denied.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a Transaction Capabilities Application Part (TCAP)-Software Defined Network (SDN) or TCAP-A800 call. A query was sent to the Network Control Point (NCP) database. The NCP determined it needed to do a transfer to another NCP but either did not give sufficient data to process the request or asked for a second NCP transfer. The call will be cancelled and reorder will be sent. The exception code is stored in CR4OGTSV for office trap printout. The trap message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Volume 2, Table F.

Final Handling Code 1620: A request was received from the Network Control Point (NCP) that is not recognized.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a Transaction Capabilities Application Part (TCAP)-Software Defined Network (SDN) or TCAP-A800 call. A query message (begin) was sent to the database, and a response was received from the database. While processing a response from the database, a component was not recognized or expected parameters were missing. The call will be cancelled and reorder will be sent. The error encountered will be stored in CR4OGTSV. The trap message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Volume 2, Table F.

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Final Handling Code 1621: While attempting to send a Transaction Capabilities Application Part (TCAP) message to the database, a buffer overflow condition occurred.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a TCAP-Software Defined Network (SDN) or TCAP-A800 call. An attempt was made to send a TCAP message (begin, continue or end) to the database. A buffer overflow condition was encountered. The call will be cancelled and reorder will be sent.

Final Handling Code 1622: While attempting to send a Transaction Capabilities Application Part (TCAP) message to the database, the stream went down.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a TCAP-Software Defined Network (SDN) or TCAP-A800 call. An attempt was made to send a TCAP message (begin, continue or end) to the database. The stream was down. The call will be cancelled and reorder will be sent.

Final Handling Code 1623: An unexpected parameter was encountered while processing a message from the database.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a Transaction Capabilities Application Part (TCAP)-Software Defined Network (SDN) or TCAP-A800 call. A begin message (query) was sent to the database and a response was received. While processing the response from the database, a parameter not expected for a particular operation was received. The call will be cancelled and reorder will be sent. The error found will be placed in CR4OGTSV for the office trap. The trap message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Volume 2, Table F.

Final Handling Code 1624: A Software Defined Network (SDN) call was controlled by a SDN-Network Operation Center System (NOCS) initiated Automatic Code Gap (ACG).

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP.
- (c) **Description:** An SDN call was attempted. The call was blocked due to Network Control Point (NCP) overload detected by the Network Operation Center (NOC). The call will be cancelled and National Trunk Congestion (NTC) will be sent. The caller will receive No Circuit Announcement (NCA).

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Final Handling Code 1625: A Software Defined Network (SDN) call was controlled by the receipt of an Automatic Code Gap (ACG) from the database.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** An SDN call was attempted. The call was blocked due to an overload condition at the Network Control Point (NCP). The call will be cancelled, and National Trunk Congestion (NTC) will be sent. The caller will receive "No Circuit Announcement (NCA)".

Final Handling Code 1626: A "dialed no service" call was controlled by the receipt of an Automatic Code Gap (ACG) from the database.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** A "dialed no service" call was attempted. The call was blocked due to an overload at the Network Control Point (NCP). The call will be cancelled and National Trunk Congestion (NTC) will be sent. The caller will receive No Circuit Announcement (NCA).

Final Handling Code 1627: A “dialed no service” call was blocked due to mass calling.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** A “dialed no service” call was attempted. The call was blocked due to mass calling detected by the database. The call will be cancelled and National Trunk Congestion (NTC) will be sent. The caller will receive No Circuit Announcement (NCA).

Final Handling Code 1628: A “dialed no service” call was controlled by a Direct Services Dialing Capability (DSDC)-Network Operation Center System (NOCS) initiated Automatic Code Gap (ACG).

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** A “dialed no service” call was attempted. The call was blocked due to Network Control Point (NCP) overload detected by the Network Operation Center (NOC). The call will be cancelled, and National Trunk Congestion (NTC) will be sent. The caller will receive “No Circuit Announcement (NCA)”.

Final Handling Code 1629: While processing a response from the database, data was found in error.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a Transaction Capabilities Application Part (TCAP)-Software Defined Network (SDN) or TCAP-A800 call. A begin message (query) was sent to the database, and a response was received. While processing the response, data in the message was found to be incorrect. The call will be cancelled, and reorder will be sent. The error found will be placed in CR4OGTSV for the office trap. The trap message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Volume 2, Table F.

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Final Handling Code 1630: A protocol error was found while validating a Transaction Capabilities Application Part (TCAP) message.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** The call must be a Transaction Capabilities Application Part (TCAP)-Software Defined Network (SDN) or TCAP-A800 call. A begin message (query) was sent to the database, and a response from the database was received. A protocol error was detected while validating an incoming Direct Services Dialing (DSD)-TCAP message. The call will be cancelled, and reorder will be sent. The error will be placed in CR4OGTSV for the office trap. The trap message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Volume 2, Table F.

Final Handling Code 1631: An error occurred while processing a request for Network Services Complex services.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** MF, DP
- (c) **Description:** The call must be an A800 or Software Defined Network (SDN) call using the Transaction Capabilities Application Part (TCAP) protocol to communicate to the Direct Services Dialing (DSD) Network Control Point (NCP). A query was sent to the DSD NCP database and processing began on the response from the database. The response contained a request for NSC services. An error occurred while attempting to use the NSC for a DSD call. A return error message will be sent to the NCP in an "end message" and call will be final handled.

Final Handling Code 1632: The maximum number of assists at this switch has been exceeded.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** The call must be a Direct Services Dialing (DSD) assist call. A query was sent to the data base, and the switch began working on the response. The maximum number of assists at this switch was exceeded. The call will be cancelled; reorder will be sent, and the call will be final handled.

Final Handling Code 1633: An entry in the IDB cache table caused an invalid translation — call irregularity report only.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** A hit was made on the cache table, and DIRE_CACHE_XLAT was called. The number translation found in the cache table returned an invalid type. The 4 ESS switch will send a query to the IDB NCP.

Final Handling Code 1634: AM4SENDBUF was full when processing a DSD call with termination data.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** A query was sent to the appropriate database and processing began on a message received from the database. AM4SENDBUF was full and the termination data could not be sent to the 3B Computer. The call will continue without sending a TERM message. This will contribute to the NCP count of lost TERM messages.

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Final Handling Code 1635: A feature requiring the TCAP protocol was attempted using the DCIS6/CCIS6 protocol.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Digits were received and they translated into a DSD call type. The DSD subtype was for a feature that requires TCAP signaling but TCAP was not turned on for that feature. The call was cancelled and connected to reorder announcement.

Final Handling Code 1636: A DIPLESS SDN international call was attempted. This customer is not allowed to dial international numbers.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** ISUP, CCIS, DTMF, MF, Q.931
- (c) **Description:** A DIPLESS SDN call was attempted. The ANI was found in the translation tables in the DLN. However, international calling was blocked for this customer. The call is given final handling treatment.

Final Handling Code 1637: The acceptable digit count for an SDN call using the TCAP protocol is incorrect in the call-type word.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** ISUP, CCIS, Q.931, DTMF, MF
- (c) **Description:** The digits received translated into a DSD call type. The acceptable digit count in the call-type word did not agree with the digit count required for this type of DSD call. Reorder was sent, and the call was cancelled.

Final Handling Code 1638: The acceptable digit count for a dialed-number based call using the TCAP protocol is incorrect in the call-type word.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** ISUP, CCIS, Q.931, DTMF, MF
- (c) **Description:** The digits received translated into a DSD call type. The acceptable digit count in the call type word did not agree with the digit count required for this type of DSD call. Reorder was sent, and the call was cancelled.

Final Handling Code 1639: While using CADCR secondary routing number, the call was finaled.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** A response was received from the database indicating CADCR which can route on a secondary number. The translation of the secondary number resulted in a bad call type and could not be routed. Call was finaled.

Final Handling Code 1640: MAINTSK received MF digits early while in the process of sending one or two winks for EA call when interworking to outgoing ISUP circuit at an access tandem.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** A TWOSTGDR was invoked and had MAINTSK start sending SSD wink(s). MF digits were received while in the process of sending wink(s). State vector incoming trunk (SVICT) is set to equal CR4EA_WINK_ST, and the dump of DGTS was received in CR4MFINVDIG. The 4ESS Switch connects the incoming trunk (MF) to reorder tone. A clear forward/release (normal forward disconnect) will be sent on the outgoing trunk (ISUP).

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Final Handling Code 1641: MAINTSK received mutilated MF digit(s) report for MF RCVR. This may have happened while still sending wink(s) for an EA call when interworking to an outgoing ISUP circuit at an access tandem.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** TWOSTGDR was invoked and had MAINTSK send SSD wink(s). Probably while still sending wink(s), the MF receiver presented a "mutilated digit" report; that is, 1 out of 6 or more than 2 out of 6 frequencies. The 4ESS Switch connects the incoming trunk (MF) to reorder tone. A clear forward/release (normal forward disconnect) will be sent on the outgoing trunk (ISUP).

Final Handling Code 1642: The MAINTSK received an incoming trunk disconnect (abandon) while TWOSTGDR was collecting digits for an equal access call with ISUP OGT at an access tandem.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** MF
- (c) **Description:** TWOSTGDR was invoked and had MAINTSK to send SSD wink(s). Somewhere in the collection process, an abandon (incoming disconnect) was received. The 4ESS Switch idles the MF incoming trunk and send disconnect forward on the outgoing ISUP circuit.

Final Handling Code 1643: DSD or teleconferencing collect-calling station I.D. call failed the second attempt to connect the MF receiver.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the calling-station I.D. for a DSD or teleconferencing call. An MF receiver is hunted, and COT received. The 4ESS Switch failed to connect an MF receiver. The ICT was connected to the "Reorder" announcement, and a clear forward message was sent on the CCIS outgoing trunk.

Final Handling Code 1644: International originating call hunted a second MF receiver but failed to connect receiver.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage invoked to do digit reception on an international originating call. An MF receiver was found, and continuity (COT) was received. The 4ESS Switch failed to connect the MF receiver and connected the ICT to "Reorder" announcement.

Final Handling Code 1645: International outbound transport call hunted a second MF receiver but failed to connect receiver.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to do digit reception on international originating trunk. An MF receiver was found and COT received. The 4ESS Switch failed to connect an MF receiver and connected the ICT to "Reorder" announcement.

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Final Handling Code 1646: International originating call from a non-ISC switch.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international call. Continuity (COT) was received; the MF receiver hunted, linked to CR, and connected to the ICT. The office data assembler (ODA) office type shows that office is not an International Switching Center (ISC). The 4ESS Switch connects ICT to "Vacant Code Announcement," disconnects and idles the MF receiver.

Final Handling Code 1647: Direct services Dialing (DSD) or teleconferencing collect-call station detected mutilated MF digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the calling station I.D. for DSD or teleconference. The MF receiver hunted, linked to CR, and connected to ICT. Continuity (COT) received but mutilated MF digits detected. The 4ESS Switch connects the ICT to the "Reorder" announcement, disconnects and idles MF receiver, and sends a clear-forward message on the CCIS OGT.

Final Handling Code 1648: International outbound transport call detected mutilated MF digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international transport call. The MF receiver hunted, linked to CR, and connected to the ICT. Continuity (COT) was received, and mutilated MF digits reported. The 4ESS Switch connects the ICT to the "Reorder" announcement, disconnects and idles the MF receiver.

Final Handling Code 1649: International Originating Call detected mutilated MF digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international originating call. The MF receiver was hunted, linked to CR, and connected to ICT. Continuity (COT) was received, and mutilated MF digits were reported. The 4ESS Switch disconnected and idled the MF receiver. The ICT was connected to the "Reorder" announcement.

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Final Handling Code 1650: International Call Two-stage received permanent signal timeout.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage invoked for international originating call. An MF receiver was hunted, linked to a CR, and digit reception started. A permanent signal time-out report was received. The 4ESS disconnected and idled the MF receiver. The ICT was connected to reorder tone.

Final Handling Code 1651: The DSD or teleconferencing collect-calling station I.D. call received a permanent signal time-out.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for the collection of the calling-station I.D. on a DSD or teleconference call. The MF receiver was hunted, linked to a CR, and digit reception started. A 10-second, permanent-signal time-out report was received. The 4ESS Switch disconnected and idled the MF receiver. The ICT was connected to the "Reorder" tone and clear forward was sent on the CCIS OGT.

Final Handling Code 1652: International outbound transport call two-stage received permanent signal time-out.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international transport call. The MF receiver was hunted, linked to a CR, and MF digit collection started. A 10-second, permanent-signal time-out report was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone.

Final Handling Code 1653: The DSD or teleconferencing collect-calling station I.D. call failed to receive a KP digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for the collection of the calling-station I.D. on a DSD or teleconference call. Continuity (COT) was received, and digit reception was started. Failed to receive KP digit; so, MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone, and CLF was sent on the CCIS OGT.

Final Handling Code 1654: International outbound transport call failed to receive a KP digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international transport call. Continuity (COT) was received; MF receiver attached, and digit collection was started. Failed to receive a KP pulse. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement.

Final Handling Code 1655: International originating call failed to receive a KP digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international originating call. Continuity (COT) was received; the MF receiver was attached, and digit collection was started. Failed to receive a KP pulse. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement.

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Final Handling Code 1656: International originating call two-stage received partial dial time-out.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international originating call. Continuity (COT) was received; the MF receiver was attached, and digit collection was started. A partial dial time-out report was received. The MF receiver was disconnected and idled. ICT was connected to the "Reorder" tone.

Final Handling Code 1657: International outboard transport call two-stage received a partial dial time-out.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international transport call. Continuity (COT) was received; the MF receiver was attached, and digit collection started. A Partial Dial Time-out was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone.

Final Handling Code 1658: DSD or teleconferencing collect calling station I.D. call two-stage received a partial dial time-out.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect calling-station I.D. Continuity (COT) was received; the MF receiver was attached, and digit collection started. A partial dial time-out was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone, and clear forward was sent on the CCIS OGT.

Final Handling Code 1659: International originating call two-stage received too many digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international originating call. Continuity (COT) was received, and the digit reception started. Too many digits were detected. The MF receiver was disconnected and idled. The ICT was connected to the "International Vacant Code (IVC)" announcement. The vacant national number (VNN) was sent on the CCIS ICT.

Final Handling Code 1660: International outboard transport call two-stage received too many digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international transport call. Continuity (COT) was received, and digit collection started. Too many digits were detected. The ICT was connected to the "International Vacant Code (IVC)" announcement. The CCIS ICT was sent Vacant National Number (VNN).

Final Handling Code 1661: DSD or teleconferencing collect calling station I.D. call two-stage received too many digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage invoked to collect calling station I.D. on a DSD or teleconferencing call. Continuity (COT) was received, and digit collection was started when too many digits were detected. The ICT was connected to reorder, and clear forward was sent on the CCIS OGT.

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Final Handling Code 1662: International originating call two-stage received report of illegal digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an originating international outbound call. The MF receiver was attached; Continuity (COT) was received, and digit collection started. An illegal digit report was detected, and the ICT was connected to the "Reorder" announcement.

Final Handling Code 1663: International outbound transport call two-stage received report of illegal digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for an international transport call. The MF receiver was attached; COT was received, and digit collection started. An illegal digit report was received, and the ICT was connected to the "Reorder" announcement.

Final Handling Code 1664: Direct services dialing (DSD) or teleconferencing collect-calling station I.D. call two-stage received illegal digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked for the collection of calling-station I.D. (ANI) on DSD or teleconferencing call. The MF receiver was attached; Continuity (COT) was received; and digit collection started. An illegal digit report was received. The ICT was connected to the "Reorder" announcement, and clear forward was sent on the CCIS OGT.

Final Handling Code 1665: International originating call two-stage received illegal KP+ST report on non-EA call.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect digits for an international originating call. Continuity (COT) was received; the MF receiver was attached, and digit reception started. A report was received of KP+ST digit sequence on a non-EA call. The ICT was connected to IVCA. The MF receiver was disconnected and idled.

Final Handling Code 1666: International outbound transport call two-stage received illegal KP+ST report on non-EA call.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect digits for international transport call. Continuity (COT) was received; the MF receiver was attached, and digit reception started. A KP+ST illegal digit sequence report was received on a non-EA call. The ICT was connected to IVCA. The MF receiver was disconnected and idled.

Final Handling Code 1667: DSD or teleconferencing collect-calling station I.D. call two-stage received an illegal KP+ST report on non-EA call.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect a calling-station I.D. on a DSD or teleconference call. Continuity (COT) was received; MF receiver was attached, and digit reception started. A KP+ST illegal digit sequence report was received on a non-EA call. The MF receiver was disconnected and idled. The ICT was connected to VCA, and a clear forward message was sent on the CCIS OGT.

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Final Handling Code 1668: DSD or teleconferencing collect calling-station I.D. call two-stage did not collect 10 digits for CSI.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect calling-station I.D. (ANI) for DSD or teleconference call. Continuity (COT) was received; the MF receiver was attached, and digit reception started. The digit count was not exactly ten digits. The ICT was connected to the "Reorder" announcement. A clear forward message was sent on the CCIS OGT.

Final Handling Code 1669: Two-stage equal access call at an access tandem detected a mutilated digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** TWOSTGDR was invoked at an access tandem for an equal access call. The MF receiver was hunted, linked to a CR, and then connected to an ICT. Mutilated MF digits were reported. The MF receiver was idled and disconnected. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1670: Two-stage equal access call at an access tandem received permanent signal timeout during ANI digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** TWOSTGDR was invoked at an access tandem for an equal access two-stage call. An MF receiver hunted, linked to a CR, and then connected to an ICT. The IT+ANI digits were being received. A permanent signal time-out report was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone, and a release message was sent on the ISUP OGT.

Final Handling Code 1671: Two-stage equal access call at an access tandem received partial dial time-out while receiving II + ANI digits.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF
- (c) **Description:** TWOSTGDR was invoked on an equal access two-stage call. The MF receiver hunted, linked to CR, and connected to an ICT. A partial dial time-out report was received while collecting II + ANI digits. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone, and a release message was sent on the ISUP OGT.

Final Handling Code 1672: A two-stage EA call at an AT received no KP digit in neither the ANI sequence nor the address digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** TWOSTGDR was invoked for an access tandem equal access two-stage call. The MF receiver hunted, linked to a CR, and connected to an ICT. Continuity (COT) was received but failed to receive a KP digit on the II + ANI sequence and the address digits sequence. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

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Final Handling Code 1673: Two-stage equal access call at an access tandem and II + ANI or address digits exceeded maximum number.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage digit reception was invoked to do digit reception at an access tandem for an equal access call. The MF receiver was attached. Too many digits (>31) in either the II + ANI sequence or the address digits sequence. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1674: Two-stage equal access call at an access tandem detected illegal MF digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage digit reception (TWOSTGDR) was invoked to do digit reception at an access tandem for an equal access call. An MF receiver was attached, and an illegal MF digit was detected. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1675: Two-stage equal access call at an access tandem detected KP + ST address digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage digit reception (TWOSTGDR) was invoked to do digit reception at an access tandem on an equal access call. The MF receiver was attached, and II + ANI digits were received. KP + ST digits were detected for address digits. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1676: Two-stage equal access call at access tandem detected address digits exceeding 18 digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage digit reception (TWOSTGDR) was invoked to do digit reception at an access tandem on an equal access call. The II + ANI digits were received. The digit count on address digits exceeded 18 digits. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1677: Two-stage equal access call at an access tandem hunted an MF receiver but failed to connect.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage digit reception (TWOSTGDR) was invoked to do digit reception on an equal access call. An MF receiver was found but failed to connect the MF receiver to the ICT. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1678: Two-stage equal access call received, and the number of II + ANI digits was not 5 or 12.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage digit reception (TWOSTGDR) was invoked to do digit reception on an equal access call. Equal access formatted digits II + ANI were collected. The number of digits was not 5 or 12. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

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Final Handling Code 1679: Two-stage equal access call at an access tandem received permanent signal timeout during address digits.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF
- (c) **Description:** TWOSTGDR was invoked at an access tandem for an equal access two-stage call. The MF receiver was attached, and II + ANI digits have been received. Address digits were being received when a 5 second permanent signal time-out report was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone, and a release message was sent on the ISUP OGT.

Final Handling Code 1680: A two-stage equal access call at an access tandem received partial-dial time-out while receiving address digits.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF
- (c) **Description:** TWOSTGDR was invoked at an access tandem for a two-stage equal access call. The II + ANI digits have already been received. The address digits were being received when a partial dial time-out report was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone and a release message was sent on the ISUP OGT.

Final Handling Code 1681: A traditional two-stage call at an access tandem hunted an MF receiver but failed to connect.

- (a) **Ineffective Attempt Type:** Path Hunt Failure (PHF)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to do a traditional two-stage call at an access tandem (MF in — ISUP out). An MF receiver was hunted and seized but failed to connect to the ICT. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1682: A traditional two-stage call at an access tandem received no KP digit with the address digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked. An MF was hunted and attached. A KP digit was not received with the address digits. The MF receiver was disconnected and idled. The ICT was connected to a reorder announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1683: A traditional two-stage call at an access tandem received too many address digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to do digit reception on a traditional two-stage call at an access tandem. The MF receiver was seized and connected, and the KP digit was found. Too many address digits detected (>31). The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1684: A traditional two-stage call at an access tandem detected on illegal MF digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the second stage of a traditional two-stage call at an access tandem. An MF receiver was attached, and the KP digit was received, but an illegal MF digit was detected. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" announcement, and a release message was sent over the ISUP OGT.

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Final Handling Code 1685: A traditional two-stage call, at an access tandem, detected illegal KP + ST address digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the second stage of the traditional two-stage call at an access tandem. An MF receiver was attached, and the KP digit received, but KP + ST digits detected as address digits. The MF receiver was disconnected and idled. The ICT was connected to "Reorder" announcement, and a release message was sent on the ISUP OGT.

Final Handling Code 1686: A traditional two-stage call, at an access tandem, detected unassigned country code or pseudo country code.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the second stage of a traditional two-stage call. An MF receiver was seized and attached. All address digits were received, but the first 3 digits indexed an invalid entry in the HT4CCC0NV table. The MF receiver was disconnected and idled. The ICT was connected to a "Vacant National Number" announcement. A release message was sent on the ISUP OGT.

Final Handling Code 1687: A traditional two-stage call, at an access tandem, detected an invalid digit count of less than 3 digits.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the second stage of a traditional two-stage call. The MF receiver was attached. The KP digit and some other digits were detected. Too few digits were counted for this type of call. The MF receiver was disconnected and idled. The ICT was connected to "Reorder" announcement, and a release is sent over the ISUP OGT.

Final Handling Code 1688: A traditional two-stage call, at an access tandem, detected a mutilated MF digit.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the second stage of the traditional two-stage call at an access tandem. An MF receiver was attached, and a KP digit was received. A mutilated MF digit report was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone, and a release was sent on the ISUP OGT.

Final Handling Code 1689: A traditional two-stage call, at an access tandem, received a permanent signal time-out.

- (a) **Ineffective Attempt Type:** Permanent Signal Time-out (PST)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the second stage of a traditional two-stage call at an access tandem. An MF receiver was attached, and a 10-second, permanent-signal time-out was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone, and a release was sent on the ISUP OGT.

Final Handling Code 1690: A traditional two-stage call, at an access tandem, received a partial dial time-out.

- (a) **Ineffective Attempt Type:** Partial Dial Time-out (PDT)
- (b) **Trunk Type:** MF
- (c) **Description:** Two-stage was invoked to collect the second stage of a traditional two-stage call at an access tandem. An MF receiver was attached, and a KP digit was detected. Some digits were detected; then a partial-dial, time-out report was received. The MF receiver was disconnected and idled. The ICT was connected to the "Reorder" tone, and a release was sent on the ISUP OGT.

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Final Handling Code 1697: The second query to the Universal Global Title Translations (UGTT) Database (DB) has failed due to Sub System Number (SSN) or Signaling Point Code (SPC) congestion.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** An attempt to query the UGTT DB was made twice. Neither of the begin messages was able to make it to the UGTT DB. The call was final handled and the resources cleared up.

Final Handling Code 1698: The second attempt to query the Software Defined Network (SDN) Database (DB) using information from the Universal Global Title Translations (UGTT) DB has failed due to Sub System Number (SSN) or Signaling Point Code (SPC) prohibited or SPC congestion.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** An attempt was made to query the SDN NCP using data received from the UGTT DB. Both query attempts failed due to SPC or SSN prohibited or SPC congestion. The call was final handled and resources cleared up.

Final Handling Code 1699: The second attempt to query the Universal Global Title Translation (UGTT) Data Base (DB) has been controlled by an Automatic Call Gap (ACG) control.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** Any
- (c) **Description:** A begin message to the UGTT DB was built. The UGTT DB was overloaded and this begin message was controlled by an ACG control. The call was final handled.

Final Handling Code 1700: UGTT DB contains no valid data for this ANI/NPT.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** A begin message was sent to the UGTT DB. No valid data was found for this call. The call was final handled.

Final Handling Code 1701: The first attempt to query the UGTT DB was controlled by an ACG control.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** A BEGIN message destined for the UGTT was built. An ACG control on the UGTT NCP point code was applied. An attempt was made to query the mate UGTT NCP.

Final Handling Code 1702: No GTT data was found in either the DLN or the cache table — query the UGTT DB for information.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** An SDN query was built and attempted to perform GTT in the DLN. GTT in the DLN failed and no data was found in the cache table. The UGTT NCA was queried.

Final Handling Code 1703: ISUP direct connect (PBX) phase zero illegal call.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP direct-connect incoming call was received. The ISUP direct connect trunk is not in an SDN domain. The call was final handled using vacant code treatment.

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Final Handling Code 1704: For incoming CCS7 ISUP SSP call, ISUPDIRE checks ANI digit count and found it was neither 3 nor 10 — 4E12 requirements have SSP switch kill such calls.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Pseudo transit network selection (TNS) was translated to show SSP call or SSP SDN (vanguard) call. The called party number translations were not yet performed. The ANI digit count was checked, and it was neither 3 nor 10. The call is final handled, and a release with “temporary failure” is sent on OGT.

Final Handling Code 1705: Seven digit — domestic — switched access (EA) ISUP incoming SDN call did not receive at least NPA ANI.

- (a) **Ineffective Attempt Type:** Vacant Code (VCA)
- (b) **Trunk Type:** LCC
- (c) **Description:** Operating line identifier (OLI) translations returned an ANI type of SDN. The office switch for SDN NPA reconstruction is on. At least a 3-digit ANI was not received for NPA reconstruction. The ICT was connected to announcement.

Final Handling Code 1706: ISUP EA International Call, bearer capability of 64R is illegal.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** Call is international but data rate (DRTC) is 64R which is invalid for international calls. A release is sent with cause of “bearer capability not implemented”.

Final Handling Code 1707: Incoming ISUP EA call — Translations found unexpected OLI.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** LCC
- (c) **Description:** OLI translations were called, and an unacceptable OLI was found—signaling information failure. A release was sent with a cause of “temporary failure”.

Final Handling Code 1708: On an incoming EA ISUP call, OLI translations found an incomplete ANI. Use ANI fail action from ICT FENN block.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** LCC
- (c) **Description:** OLI translations were called; translations returned **Incomplete ANI, use ANI FAIL action from ICT FENN block**. Action was not “Route and Record”. Release was sent with cause of “temporary failure”.

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Final Handling Code 1709: On an incoming EA ISUP call, OLI translations found an incomplete ANI. The ANI fail action from ICT FENN block is route and record.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** LCC
- (c) **Description:** OLI translations was called; translations returned **Incomplete ANI, use ANI FAIL action from ICT FENN block.** Action is "Route and Record". Call is routed and Final Handling is not called.

Final Handling Code 1710: An illegal service switching point (SSP) subtype for equal access (EA) SSP call on ISDN user part (ISUP) incoming trunk (ICT).

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** ETC
- (c) **Description:** Translations returned SSP subtype of EASEQ and was called a second time. An invalid SSP subtype was returned. Release was sent with the cause of "unallocated number."

Final Handling Code 1711: Digit count is out of range on EA SSP ISUP call.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** ETC
- (c) **Description:** Translations returned a valid SSP subtype in the access tandem transit network selection (ATNS) domain, which designates the switch function to be SSP on this call. The digit count is out of range, and the release message was sent with the cause of an "unallocated number".

Final Handling Code 1712: The digit count is out of service at access tandem on ISUP ICT.

- (a) **Ineffective Attempt Type:** Pulsing Error (PER)
- (b) **Trunk Type:** ETC
- (c) **Description:** Translations returned SSP as a subtype of SSPTNSND. The digit count was out of range (>18), and RELEASE was sent with the cause of "unallocated number."

Final Handling Code 1713: Translations determined the carrier ID (CID) is illegal for this switch to receive.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** LCC
- (c) **Description:** Digit reception (DIRE) was called; digits are valid, and digit count checks are passed. Translations determined the received C10 is illegal at this switch. Release was sent with the cause of **no route to the specified transmit network**.

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Final Handling Code 1715: An illegal TNS on ISUP ICT dedicated to SDN was received.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** LCC
- (c) **Description:** TNS translations determined the call, and requested an international outbound call. OLI (ANI type) requested an incompatible service. Release was sent with the cause of an "incompatible destination."

Final Handling Code 1716: The trunk is dedicated to SDN and OLI is required but not received.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** LCC
- (c) **Description:** OLI translations determined the ANI type to be translated as 800 or 0 wats. The domain of the trunk is SDN. Release was sent with the cause of "incompatible destination."

Final Handling Code 1717: EAMF or traditional international two-stage, where the OGT is ISUP, and the second state that was collected failed one of several cross checks.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** MF
- (c) **Description:** ISUPOGT sent a circuit reservation message (CRM); UPA passed; COT was sent; and circuit reservation acknowledgement (CRA) was received. The ISUPOGT reported the event to REPO to call two-stage to collect the second and third stages of EAMF protocol and to start Access Charge Recording or collect single traditional international second stage at the access tandem. Cross-checks between CHI, incoming signaling characteristic (MFWINK, test positions, etc.) and type of trunk (PBX, STC, CAMA, etc., not valid) failed. Then the incoming trunk (ICT) was connected to vacant code (VCA). ISUP OGT sent release.

Final Handling Code 1718: Handling an ISUP EA incoming call — A three-digit ANI and a seven-digit address were received but the NPA of the calling party was not in the NPA table.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** LCC
- (c) **Description:** This call has an ANI of at least three digits and a seven digit address; the office switch for NPA reconstruction is "ON" and incoming; and TSG does not have NPA reconstruction inhibited. But caller's NPA is not in OD4 CID_BCD table. Word OD4OFCDATA has an announcement name stored in field OD4NPARFHT. The caller is connected to this announcement.

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Final Handling Code 1719: A seven-digit domestic switched access (EA) incoming SDN call that has an NPA from ANI which is not recognized as a home or a served NPA.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** LCC
- (c) **Description:** The incoming signaling characteristic is ISUP, and the type of trunk is LCC. This is an EA SDN (switched access), seven-digit called party number, non-international call which has an ANI of at least 3 digits and a seven-digit address. The callers NPA is not in the OD4C1D-BCD Table. The NPA of the caller is neither the home nor one of the served NPAs in this office. Word OD4OFCDATA has an announcement name stored in field OD4NPARFHT to which the caller will be connected.

Final Handling Code 1720: The ISUP network interconnect found invalid number services data block (NDB) information while translating carrier-ID and TNS info in the ATNS(*) domain.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** LCC
- (c) **Description:** This is an ISUP equal access (EA) incoming trunk. The translation domain is access tandem transit network selection (ATNS). This only happens at an access tandem (AT) switch. Initial address message (IAM) was received; call processing recognized the call as an ISUP-EA call; translation of ISUP parameters (carrier ID, TNS, etc.) in the ATNS domain has been started. During the translation process, an NDB was found which contained data that is not valid in the ATNS domain. Probable cause is that the NDB pointed to a non-existent or invalid type of RDB. The incoming trunk is given vacant code treatment.

Final Handling Code 1721: The ISUP network interconnect found an invalid type of calltype word while translating carrier-ID and TNS info in the ATNS domain.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** LCC
- (c) **Description:** IAM was received; call processing recognized a call as an ISUP-EA call; translation of ISUP parameters (carrier-ID, TNS, and others) in the ATNS domain has been started. Due to the translation process, a type of calltype word—code grouping treatment—which is not allowed in the ATNS domain, is found. The incoming trunk is given the final handling (vacant code) treatment.

Final Handling Code 1722: The ISUP interconnect found an invalid subtype in a SSP calltype while translating carrier-ID and TNS info in the ATNS domain.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** LCC
- (c) **Description:** This is an ISUP equal access (EA) incoming trunk. The translation domain is access tandem transit network selection (ATNS). This only happens at an access tandem (AT) switch. Call processing recognized a call as an ISUP-EA call; translation of ISUP parameters (carrier-ID, TNS, and others) in the ATNS domain has been started. Due to the translation process, an SSP calltype with a subtype, which is not allowed in the ATNS domain, was found. The incoming trunk was given the final handling (vacant code) treatment.

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Final Handling Code 1723: The ISUP network interconnect has found a vacant code calltype word while translating carrier-ID and TNS information in the ATNS domain.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** LCC
- (c) **Description:** This is an ISUP equal access (EA) incoming trunk. The translation domain is access tandem transit network selection (ATNS). This only happens at an access tandem (AT) switch. Call processing recognized a call as an ISUP-EA call; translation of ISUP parameters (carrier-ID, TNS, and others) in the ATNS domain has been started. The translation process found a vacant code calltype word—code grouping treatment—in the ATNS domain.

Final Handling Code 1724: Two-stage ANI digit collection requested on an LCC, OCC, or ETC trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF
- (c) **Description:** RPOEVNT was requested to retrieve the ANI for a direct services dialing capability (DSDC) call requiring ANI. An attempt was made to collect the ANI digits when the ICT was the Other Common Carrier, Local Carrier Connect, or End/Tandem Connecting. The call was canceled and connected to vacant code announcement.

Final Handling Code 1725: The final attempt to communicate with the adjunct has failed. The common platform adjunct data table said to final handle the call.

- (a) **Ineffective Attempt Type:** Final Trial Failure (FTF)
- (b) **Trunk Type:** Q.931
- (c) **Description:** An adjunct trunk was successfully hunted. A final attempt to communicate with the adjunct failed. Override treatment was used for ICT announcement.

Final Handling Code 1726: An invalid controller was encountered when a disconnect or release complete message was received from the common platform adjunct B1 trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** Disconnect or release complete message was received from CPA B1 trunk, but an invalid controller was encountered. Call was finaled and "Reorder" announcement was played.

Final Handling Code 1727: A logical address from the adjunct-billing-number trigger table was found but an invalid application type was encountered.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A logical address from the adjunct billing number trigger table was found, but an invalid application type was encountered. Call was finaled and recorded announcement played.

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Final Handling Code 1728: A bad Universal Global Title Translation (UGTT) state was discovered in the check-UGTT-cache routine.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** Any
- (c) **Description:** The original SDN begin message was built. A bad CR state for UGTT was encountered when attempting to query the UGTT DB. The call was final handled and the resources cleaned up.

Final Handling Code 1729: Q.931 LEC Switched Digital Service — No route to transit network.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling, data type calls. The switch received a SETUP message without a carrier ID (transit network selection) specified or prescribed within the trunk subgroup to route this call. The switch final handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1730: Q.931 LEC Switched Digital Service — Specified (SETUP message) Carrier ID has no route to transit network.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data type calls. The switch received a SETUP message without a carrier ID (transit network selection) specified or prescribed within the trunk subgroup to route this call. The switch final handled the call sending a cause value 2 meaning “no route to specified transit network.”

Final Handling Code 1731: Q.931 LEC Switched Digital Service — Prescribed (TSG) Carrier ID has no route to transit network.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type type calls. The switch received a Q.931 SETUP message that was valid except the trunk subgroup prescribed carrier ID has no routing setup for this transit network selection. The switch final handled the call sending a cause value 2 meaning “no route to specified transit network.”

Final Handling Code 1732: Q.931 LEC Switched Digital Service — Specified CID, Called Number Type was unassigned or invalid.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) received; however, the Called Number Type associated with the called number is either unassigned or invalid. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

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Final Handling Code 1733: Q.931 LEC Switched Digital Service — Presubscribed CID, Called Number Type was unassigned or invalid.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID used presubscribed (in the trunk subgroup). The Called Number Type associated with the called number is either unassigned or invalid. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1734: Q.931 LEC Switched Digital Service — The Specified (SETUP message) Carrier ID was either unassigned or invalid.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID (transit network selection) specified for the call being either unassigned or invalid. The switch Final Handled the call sending a cause value 2 meaning “no route to specified transit network.”

Final Handling Code 1735: Q.931 LEC Switched Digital Service — The Presubscribed (TSG) Carrier ID was either unassigned or invalid.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Trunk Subgroup Presubscribed Carrier ID being either unassigned or invalid. The switch Final Handled the call sending a cause value 2 meaning “no route to specified transit network.”

Final Handling Code 1736: Q.931 LEC Switched Digital Service — Specified CID was designated for Intra-LATA calls and the Called Number Type was for an Inter-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID (TNS parameter) being received. The Called Number Type and CID were incompatible. The specified CID is designated for Intra-LATA calls, and the Called Number Type was for an Inter-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

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Final Handling Code 1737: Q.931 LEC Switched Digital Service — Presubscribed CID was designated for Intra-LATA calls and the Called Number Type was for an Inter-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise Q.931 valid SETUP message with the Carrier ID being presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed CID was designated for Intra-LATA calls, and the Called Number Type was for an Inter-LATA call. The Switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1738: Q.931 LEC Switched Digital Service — Specified CID was designated for Intra-LATA calls and Called Number Type was for an International call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) specified. The Called Number Type and CID were incompatible. The specified CID was designated for Intra-LATA calls, and the Called Number Type was for an International call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1739: Q.931 LEC Switched Digital Service — Presubscribed CID was designated for Intra-LATA calls and the Called Number Type is for an International call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID used presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed CID was designated for Intra-LATA calls, and the Called Number Type was for an International call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1740: Q.931 LEC Switched Digital Service — Specified CID was designated for Inter-LATA calls and the Called Number Type is for an Intra-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) specified. The Called Number Type and CID were incompatible. The specified CID was designated for Inter-LATA calls, and the Called Number Type was for an Intra-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

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Final Handling Code 1741: Q.931 LEC Switched Digital Service — Presubscribed CID was designated for Inter-LATA calls and the Called Number Type is for an Intra-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID used presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed CID was designated for Inter-LATA calls, and the Called Number Type was for an Intra-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1742: Q.931 LEC Switched Digital Service — Specified CID was designated for Inter-LATA calls and the Called Number Type was for an International call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) specified. The Called Number Type and CID were incompatible. The specified CID was designated for Inter-LATA calls, and the Called Number Type was for an International call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1743: Q.931 LEC Switched Digital Service — Presubscribed CID was designated for Inter-LATA calls and the Called Number Type is for an International call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed CID was designated for Inter-LATA calls, and the Called Number Type was for an International call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1744: Q.931 LEC Switched Digital Service — Specified CID was designated for combined Intra-LATA or Inter-LATA calls and the Called Number Type was for an International call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) specified. The Called Number Type and CID was incompatible. The specified CID was designated for either Intra-LATA or Inter-LATA calls, and the Called Number Type was for an International call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

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Final Handling Code 1745: Q.931 LEC Switched Digital Service — Presubscribed CID was designated for combined Intra-LATA or Inter-LATA calls and the Called Number Type was for an International call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed for either Intra-LATA or Inter-LATA calls, and the Called Number Type was for an International call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1746: Q.931 LEC Switched Digital Service — Specified CID was designated for International calls and the Called Number Type was for an Intra-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) specified. The Called Number Type and CID were incompatible. The specified CID is designated for International calls, and the Called Number Type was for an Intra-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1747: Q.931 LEC Switched Digital Service — Presubscribed CID was designated for International calls and the Called Number Type was for an Intra-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed CID was designated for International calls, and the Called Number Type was for an Intra-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1748: Q.931 LEC Switched Digital Service — Specified CID was designated for International calls and the Called Number Type was for an Inter-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) specified. The Called Number Type and CID were incompatible. The specified CID was designated for International calls, and the Called Number Type was for an Inter-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

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Final Handling Code 1749: Q.931 LEC Switched Digital Service — Presubscribed CID was designated for International calls and the Called Number Type was for an Inter-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed CID was designated for International calls, and the Called Number Type was for an Inter-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1750: Q.931 LEC Switched Digital Service — Specified CID was designated for combined Inter-LATA or International calls and the Called Number Type was for an Intra-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) specified. The Called Number Type and CID are incompatible. The specified CID was designated for either Inter-LATA or International calls, and the Called Number Type was for an Intra-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1751: Q.931 LEC Switched Digital Service — Presubscribed CID was designated for combined Inter-LATA or International calls and the Called Number Type was for an Intra-LATA call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed CID was designated for either Inter-LATA or International calls, and the Called Number Type was for an Intra-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1752: Q.931 LEC Switched Digital Service — Specified CID was designated for SSP LEC calls and the Called Number Type was for a non-Intra-LATA or non-LEC call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with a Carrier ID (TNS parameter) specified. The Called Number Type and CID were incompatible. The specified CID was designated for SSP LEC calls, and the Called Number Type was for a non-Intra-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

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Final Handling Code 1753: Q.931 LEC Switched Digital Service —
Presubscribed CID was designated for SSP LEC calls and the Called Number Type was for a non-Intra-LATA or non-LEC call.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message with the Carrier ID presubscribed (in the Trunk Subgroup). The Called Number Type and CID were incompatible. The presubscribed CID was designated for SSP LEC calls, and the Called Number Type was for a non-Intra-LATA call. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1758: Q.931 LEC Switched Digital Service —
Translated the Called Number Type no route to destination (non-RDB call type).

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message and translated the called number (which was either an Intra-LATA, Privilege, or Corridor Called Number Type) but was unable to obtain routing. The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1759: Q.931 LEC Switched Digital Service — Called Number Type Translation failure (unable to obtain the CDNT from the VACANT code call type word when translating the Called Number digits in the DAVAT domain).

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message, but was unable to obtain or determine the called number type from translations for the called number digits (translation failure using the DAVAT domain). The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

Final Handling Code 1760: Q.931 LEC Switched Digital Service — Illegal Number Plan Type specified (something other than North America or International).

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This FH condition will only occur at an Access Tandem (LEC) switch during incoming setup stage for Q.931 incoming signaling data-type calls. The switch received an otherwise valid Q.931 SETUP message, but an illegal number plan type was specified (something other than North America or International). The switch Final Handled the call sending a cause value 3 meaning “no route to the destination.”

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Final Handling Code 1770: COT failure message received during call setup.

- (a) **Ineffective Attempt Type:** CCIS Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A continuity (COT) failure message was received during call setup. The 4ESS Switch waits 4 minutes for release complete (RLC). If an RLC does not occur within that time, the 4ESS Switch sends a reset circuit (RSC) and waits for RLC.

Final Handling Code 1791: A release message was received during setup, without cause parameter.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** On a CCITT #7 incoming trunk call, the INUPICT sent an initial address message (IAM). INUPICT received a release message without a cause parameter. The 4ESS Switch sends a release complete (RLC) message and idles the trunk.

Final Handling Code 1792: Call identified as being from a Resale Carrier, received II or OLI that is not valid for resale.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF & ISUP
- (c) **Description:** This code occurs with incoming MF Feature Group D or ISUP Network Interconnect calls for a Resell Carrier. Incoming call is received with invalid II or OLI for Resell Carrier. The call is connected to VCA treatment.

Final Handling Code 1793: Call identified as being for a Resale Carrier, also requires operator assistance - not allowed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF & ISUP
- (c) **Description:** This code occurs with incoming MF Feature Group D or ISUP Network Interconnect calls for a Resell Carrier. Incoming call is received requesting operator assistance which is invalid. The call is connected to VCA treatment.

Final Handling Code 1794: Call is identified as being for a resale carrier and data call - not allowed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF & ISUP
- (c) **Description:** This code occurs with incoming MF Feature Group D or ISUP Network Interconnect calls for a Resell Carrier. Incoming data call is received which is not allowed for resell carriers. The call is connected to VCA treatment for MF or Service Unavailable for ISUP.

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Final Handling Code 1795: Call is identified as being for a Resale carrier, has bad NPA, bad Country Code (4E23 and later) or is denied as a Directory Assistance call.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF & ISUP
- (c) **Description:** This code occurs with incoming MF Feature Group D or ISUP Network Interconnect calls for a Resell Carrier. Incoming call is received but called number is not valid for resale. The call is connected to VCA treatment.

Final Handling Code 1796: Translating the stored routing number for a CIC based resale call which was to a Directory Assistance number and failed to provide the normal routing when translated the stored routing number.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF & ISUP
- (c) **Description:** This code is restricted to CIC Based Resale calls. A CIC Based Resale call attempts to route to directory assistance and no translation is found for the routing number. The call is terminated.

Final Handling Code 1797: First trial failure - No offhook (ANI request) was received from an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk. This OGT and MF transmitter will be idled and the call attempted on another OGT.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF Outgoing
- (c) **Description:** This code occurs when a call is terminating to a CAMA-ANI Outgoing kind of trunk (4XLTOTCMA). An MFWINK START CAMA-ANI outgoing trunk was selected and called digits were signaled. After signaling the called digits, the timer for the off-hook (ANI request) expired. From an MFWINK START CAMA-ANI type of trunk. The Outgoing Trunk (OGT) is reported for error analysis. The OGT and MF transmitter will be idled, and rehunt is invoked to attempt to complete the call one more time on another OGT.

Final Handling Code 1798: First trial failure - received MF transmitter error report while trying to transmit the ANI on an MF Wink-Start CAMA-ANI Outgoing (4XLTOTCMA) kind of trunk. This OGT and MF Transmitter will be idled and the call attempted on another OGT.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF Outgoing
- (c) **Description:** This code occurs when a call is terminating to CAMA-ANI Outgoing (4XLTOTCMA) kind of trunk. The trunk was seized and the called digits were signaled. The 4ESS switch received the MF transmitter error report while trying to transmit the ANI on an MFWINK START CAMA-ANI type of trunk. The switch reports the MF transmitter for error analysis, idles the OGT, and invokes rehunt to attempt to complete the call to another OGT one more time.

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Final Handling Code 1799: First trial failure - received unexpected on-hook from OGT while trying to transmit the ANI on an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk. This OGT and MF transmitter will be idled and call attempted on another OGT.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF Outgoing
- (c) **Description:** This code occurs when a call is terminating to CAMA-ANI-OUT kind of trunk. A trunk was seized, the called digits were signaled, the off-hook (ANI request) was received, and the switch started to send ANI digits on an MFWINK START CAMA-ANI OGT. The switch received an unexpected on-hook on the CAMA-ANI OGT. The OGT and transmitter are idled, and rehunt is invoked to attempt to complete the call to another OGT.

Final Handling Code 1800: Received a 911 call on a PBX Trunk, but either the LANI was not provisioned or the FEOFC (Far End Office Code) was not provisioned, or neither was provisioned -- Call Irregularity Report only, call not finaled.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MFWINK, Q.931, DP, DTMF Incoming
- (c) **Description:** This code occurs on call originated on PBX ICT with signaling Q.931, DP, DTMF, or MF. The call is determined to be a 911 emergency call (per FRF #7038). The incoming TSG is determined to be 'non-configured' for AT&T Digital Link Phase 3 - 911 Capabilities (i.e., LANI, FEOFC, or both not populated on the PBX ICT). The switch will continue processing the call (per FRF #7038) requirements, and the call is routed to the 911 destination.

Final Handling Code 1801: Received a 911 call on a PBX TSG and constructed the routing number (911+FENPA+FEOFC+0 or 911+FENPA+0000 if FEOFC blank). Tried to translate in POTS domain but no good.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MFWINK, Q.931, DTMF, DP
- (c) **Description:** This code occurred when a call came in on PBX TOT, the 911 3-digit type is detected, and the 911 feature is active. The switch detected a 911 3-digit type and constructed the 10-digit 911 emergency routing number (per FRF #7038 requirements). While attempting to translate the 10-digit constructed 911 emergency number, an invalid call type is found. The call is final handled, and all associated resources are idled.

Final Handling Code 1802: Received a 911 data call on a PBX TSG.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MFWINK, MF, Q.931, DP
- (c) **Description:** This code occurs when the call is originated on a PBX TSG, and the 911 feature is active. The 911 3-digit type (per FRF #7038) is detected, and the 911 feature is active. The call is determined to be a data call. The call is final handled, and all associated resources are idled.

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Final Handling Code 1803: Second trial failure (final trial) - no offhook (ANI request) was received from an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MFWINK Outgoing
- (c) **Description:** This code occurs when a OGT is a CAMA-ANI-OUT (4XLTOTCMA) kind of trunk. The switch seized an CAMA-ANI OGT, signaled called digits, and started to wait for ANI request. An off-hook (ANI request) was not received from the far end for the second attempt on this call. The call is final handled, all associated resources are idled, and the CAMA-ANI OGT is reported for error analysis.

Final Handling Code 1804: Second trial failure (final trial) received MF Transmitter error report while trying to transmit the ANI on an MF-Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk.

- (a) **Ineffective Attempt Type:** FTF
- (b) **Trunk Type:** MFWINK Outgoing
- (c) **Description:** This code occurs if the OGT is CAMA-ANI-OUT (4XLTOTCMA) kind of trunk. The switch selected a retry trunk, received off-hook (ANI request), and attempted to output ANI on a CAMA-ANI OGT. An MF transmitter error report received. The call is final handled, the associated resources idled, and the transmitter is reported for error analysis.

Final Handling Code 1805: Second trial failure (final trial) - Received unexpected on-hook from OGT while trying to transmit the ANI on an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MFWINK Outgoing
- (c) **Description:** This code occurs when OGT is CAMA-ANI-OUT (4XLTOTCMA) kind of trunk. The switch received the off-hook ANI request and started sending the ANI digits on a CAMA-ANI type of trunk. During a second trial failure an unexpected on-hook OGT is detected while outputting the digits. The call is final handled, and all associated resources are idled.

Final Handling Code 1806: In Receiving digits on a local NODAL PBX TSG, a dial-around (carrier ID) was received followed by 0+/0-/01+ (for 0+, 911 was not received) or the DAC was received and a North American INWATT (8YY) number was detected.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ICT TOT=PBX (DP,MF,DTIME,Q.931)
- (c) **Description:** This code occurs when the call is received from LOCAL NODAL PBX TSG. A DIAL-AROUND code was received. A DIAL-AROUND (carrier ID) was received followed by 0+/0-/01+ (for 0+, 911 was not received) or the DAC was received and a North American INWATT (8YY) number was detected. The call will be killed with standard vacant code treatment.

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Final Handling Code 1807: Received a dial-around-code but failed to query either the SD or 2DSA.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ICT TOT=PBX (DP,MF,DTMF,Q.931)
- (c) **Description:** This code occurs when the call is a dial-around call. Received a dial-around-code, determined a query was needed. Failed to query the SD or 2DSA. The call will be killed with reorder.

Final Handling Code 1808: Received a dial-around-code but failed to receive a reply from the SD or 2DSA.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ICT TOT=PBX (DP,MF,DTMF,Q.931)
- (c) **Description:** This code occurs when a call is a dial-around call. Sent query to SD or 2DSA. Failed to get a reply from the SD or 2DSA. Call will be killed with reorder.

Final Handling Code 1809: An error occurred on a dial-around (carrier ID, 101XXXX) SDN/PCP call that resulted in an attempt to default route and record the call. Dial-around calls are not allowed to be default routed and recorded. The call will be killed.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ICT TOT=PBX (DP,MF,DTMF,Q.931)
- (c) **Description:** This code occurs if the call is an SDN or PCP dial-around call. Attempted to send a query to 2DSA/2NCP or SD. An error is encountered when communicating with the database. The call is final handled with re-order.

Final Handling Code 1810: MAINDSPN found report from CCITT #5 ICT with KP digit arriving too soon.

- (a) **Ineffective Attempt Type:** PSE
- (b) **Trunk Type:** None
- (c) **Description:** This code occurs from CCITT #5 ICT. Attached MF receiver. Received KP but seizure signal was still present. The switch will then kill the call using HIGH&WET persisting signal.

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Final Handling Code 1811: Feature 7285 specifies that certain resell calls be subjected to a new screening via the II/OLI translation process. This call was subjected to that extra screening and blocked (final handled) because of it.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** MF & ISUP
- (c) **Description:** This code occurs because this must be a resell call for which a CIC was received or derived. The II/OIL, ANI digits were received. The II/OLI received was invalid for the CIC received. Final the call with vacant code announcement.

Final Handling Code 1812: Default ERPI used on an incoming ECOS voice call and the SII is non-zero. Report only call irregularity.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** None
- (c) **Description:** N/A

Final Handling Code 1813: Default ERPI used on an outcoming ECOS voice call and the SII is non-zero. Report only call irregularity.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** None
- (c) **Description:** N/A

Final Handling Code 1814: For an AT&T Digital link phase five call on an LCC type of ISUP trunk for which FEALN is true, received a called party number nature of address set to APN but did not receive an SDN phase 5 OLI. Call will be killed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when a call arrives on a Local Carrier Connecting (LCC) ISUP trunk for which the FEALN field is set and the feature bit is set. A called party number with the Network Access Interrupt (NAI) set to Action Point Number (APN) is received in the IAM. The EQUAL ACCESS ANI type is not SDN. The ICT will be connected to the Vacant Code Announcement (VAC), or ISUP release message with cause from the final handling announcement translator for the VCA will be sent. The call is not allowed to route.

Final Handling Code 1821: Incoming call from another interexchange carrier is rejected as it is a data call.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on ISUP ICT from an Interexchange Carrier. A valid IAM is received, a CR seized, and the called party number is translated. A data call is not allowed; so, the switch sends a release with cause of call reject (21).

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Final Handling Code 1822: Incoming call from another Interexchange Carrier is rejected as it is an operator call.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on ISUP ICT from an Interexchange Carrier. A valid IAM is received, a CR seized, and the called party number is translated. An operator call is not allowed; so, the switch sends a release with cause of call reject (21).

Final Handling Code 1823: Incoming call from another Interexchange Carrier is rejected as call is not allowed for this area/ABC digit (3-digit type is set).

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on ISUP ICT from an Interexchange Carrier. A valid IAM is received, a CR seized, and the called party number is translated. The call is not allowed for this area/ABC digit; so, the switch sends a release with cause of call reject (21).

Final Handling Code 1824: Incoming call from another Interexchange Carrier is rejected as C-bit is not set and ASCIT question is no.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on ISUP ICT from an Interexchange Carrier. A valid IAM is received, a CR seized, and the called party number is translated. The C-bit is not set and the ASCIT question is no; so, the switch sends a release with cause of call reject (21).

Final Handling Code 1825: Carrier Interconnect call is killed because the result of an LNP query only received an LRN for the Carrier Interconnections feature.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs when the switch is restricted ISUP ICT from an Interexchange Carrier. A valid IAM is received; a CR is seized, and the called party number is translated. The call is killed because the result an LNP query only received an LRN (required to receive TSAA NSN). The switch sends a release with cause of call reject (21).

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Final Handling Code 1828: The ATP node passes facility Disable message to the Q931. The messages might come with validation key and user entered code information.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** Q.931 ATP
- (c) **Description:** This code occurs on an ATP call. ATP monitoring is set up for the call but is disabled due to a failure in collecting user digits. The ATP is disabled and the call continues.

Final Handling Code 1829: INUP outgoing trunk received a release message before address complete with no cause parameter specified.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** INUP
- (c) **Description:** A CCITT #7 International ISUP outgoing trunk sent an IAM that may have been followed by a COT message. A release message, without the required cause parameter, was received during the call setup phase. The 4ESS Switch sends a RLC message to the forward switch and initiates release on the incoming trunk.

Final Handling Code 1844: Outgoing trunk VPA test failed on second try.

- (a) **Ineffective Attempt Type:** CCIS Continuity Check Failure (CKF)
- (b) **Trunk Type:** INUP
- (c) **Description:** A CCITT #7 International ISUP outgoing trunk successfully started the Voice Path Assurance (VPA) test and sent the IAM. The VPA test timed out before passing and the call had been retried once. The 4ESS Switch idles the outgoing trunk (trunk maintenance performs a VPA test on the trunk) and plays the international reorder announcement.

Final Handling Code 1877: OGT recieved a REL message during call setup with the cause indicating normal - unspecified.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** CCITT7 INUP
- (c) **Description:** OGT received a REL message during call setup with the cause indicating normal - unspecified.

Final Handling Code 1884: An outgoing trunk receives a Release message after Call Setup with the cause indicating no circuit is available

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) National Congestion
- (b) **Trunk Type:** DFLT
- (c) **Description:** This code applies only to the trunk with international user part signaling characteristics at an International Switching Center. An Address Complete message (ACM) is received, and the call is waiting for an answer. A Backward Release message is received with the cause indicating "Network Congestion in a Foreign Network" treatment is required. The call is failed, and the caller is connected to an International Foreign Failure announcement.

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Final Handling Code 1885: An outgoing trunk receives a Release message after Call Setup with the cause indicating temporary failure

- (a) **Ineffective Attempt Type:** Call Failure (CFL)
- (b) **Trunk Type:** DFLT
- (c) **Description:** This code applies only to the trunk with international user part signaling characteristics at an International Switching Center. An ACM is received, and the call is waiting for an answer. A Backward Release message is received with the cause indicating Call Failure treatment is required. The call is failed, and the caller is connected to an International Foreign Failure announcement.

Final Handling Code 1886: An outgoing trunk receives a Release message after Call Setup with the cause indicating switching equipment congestion

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** DFLT
- (c) **Description:** This code applies only to the trunk with international user part signaling characteristics. An Address Complete message (ACM) is received, and the call is waiting for an answer. A Backward Release message is received with the cause indicating "Switching Equipment Congestion in Foreign Country" treatment is required. The call is failed, and the caller is connected to an International Foreign Failure announcement.

Final Handling Code 1889: Outgoing trunk could not send IAM because called number contained more than 17 digits.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** INUP
- (c) **Description:** A CCITT #7 International ISUP outgoing trunk was selected and started building the initial address message (IAM). The message could not be sent because the called number contained more than 17 digits. The 4ESS Switch idles the outgoing trunk and releases the incoming trunk with address complete behavior.

Final Handling Code 1898: International Integrated Services Digital Network User Part outgoing trunk (INUPOGT) receives a Backward Release (REL) message while waiting for an answer (ANS) (user busy indicated)

- (a) **Ineffective Attempt Type:** Call Failure (CFL)
- (b) **Trunk Type:** DFLT
- (c) **Description:** This code applies to the International Telegraph and Telephone Consultative Committee CCITT) #7 International Integrated Services Digital Network User Part trunk. The outgoing trunk waits for an answer and receives a Release message with a cause indicating user busy (#17). The call is failed, and the caller is connected to busy tone.

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Final Handling Code 1902: The call was received on an Local Service Provider (LSP)-LOCAL, Intertoll (ITOLL) or Operator Services Position System (OSPS) Integrated Services Digital Network User Port (ISUP) incoming trunk, the Forward Call Indicators (FCI) M-BIT received was set, digits translations of the received called number revealed a vacant code and the number was not in the Local Exchange Routing Guide (LERG) table.

- (a) **Ineffective Attempt Type:** VAC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the call is received on an LSP-LOCAL, ITOLL or OSPS incoming trunk with M-bit set (ISUP only). Translation of the called party number was not successful. The translation of the called party number revealed a vacant code and the number was not found in the LERG table. The switch will kill the call and send a release with standard cause #31 back on the ISUP ICT.

Final Handling Code 1903: An AT&T Network Connections (ANC - formerly called RESELL) call was detected to have received a carrier selection indicator showing the caller dialed the carrier code translator contains data causing the switch to block the call.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code has no restrictions. ISUP signaling received the message. The ISUP message indicated a DIAL-AROUND call. The switch killed the call.

Final Handling Code 1904: A call identified as an ANC (AT&T Network Connections) NANP data structures involved call tried to create the PSEUDO-TRUE-BN as per FSD 7323 and the subsequent translate to TRUE-BN and OSPSID failed. As this call is to the 700 NPA, it is being killed with vacant code treatment.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** The switch will kill the call.

Final Handling Code 1913: AIN — Call attempted to serial trigger to AIN SCP more than the allowed number of times causing the call to be killed.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** This was a call that attempted to trigger to the AIN database. It is very likely the call previously triggered to the AIN SCP and attempted to do so again. Route response from the AIN database was translated and indicated to send another query to the AIN SCP. The call attempted to serial trigger to AIN SCP more than the allowed number of times (simply increasing the ODA value will not normally fix this problem). The switch Final Handled the call and idled all associated resources.

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Final Handling Code 1914: AIN — The database requested the switch redirect the call, and the redirection would cause the 4ESS switch to exceed the redirection limit.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** This call was at an Advanced Intelligent Network (AIN) Service Switching Point (SSP). The call received a response from the Service Control Point (SCP) which indicated the call should perform a redirection. The redirection indicated by the SCP would cause the call to redirect more than the number of times allowed by the SSP office data. The redirection count is limited by the OD4AINCFRTH office data item. The switch Final Handled the call and idled all associated resources.

Final Handling Code 1915: AIN — The AIN SCP indicated a carrier which had all circuits busy. The SSP will attempt another carrier route. This is a Call Irregularity Report only.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** This call was an AIN call which queried the AIN SCP. The SCP responded with a routing response that indicated more than one possible carrier route. The SCP attempted to route the call to the primary carrier indicated by the SCP TCAP response. While attempting to route the call to the next carrier, the AIN SSP detected a No Circuit condition. The switch determined whether the call had another carrier available, and if so, attempted to route to the next carrier.

Final Handling Code 1916: Ported Number Gap (PNG) should be outputted as called number, but ISUP determined PNG was incorrectly formatted.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All domestic signaling types
- (c) **Description:** This code occurs on LEC LNP calls. It is determined that the ported number gap is stored but formatted incorrectly. The switch terminates the call.

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Final Handling Code 1917: Invalid digit count on a LEC LNP non-pots call should be 10.

- (a) **Ineffective Attempt Type:**
- (b) **Trunk Type:** All domestic signaling types
- (c) **Description:** This code occurs because the call must be a non-pots LEC LNP call. When determined this was a LNP called number, and the digit count was not 10, the call was terminated.

Final Handling Code 1918: Received Integrated Services User Part (ISUP) or Message Forwarder (MF) Controller Interface Circuit (CIC) calls are blocked per translation.

- (a) **Ineffective Attempt Type:**
- (b) **Trunk Type:** ISUP, MF
- (c) **Description:** This code occurs when the received Controller Interface Circuit (CIC) for this call is being blocked per translation. All digits received, and being translated. The received carrier ID is being blocked per translation, and the call will be killed.

Final Handling Code 1922: Circuit reservation acknowledgement message could not be sent on an INSUP incoming trunk (ICT) because the Common Network Interface (CNI) buffers are full.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Circuit reservation message (CRM) is received on the ICT. The Common Network Interface (CNI) buffers are full; therefore, the ICT handler cannot send the "Circuit Reservation Acknowledgement" message. The trunk is made high and wet.

Final Handling Code 1923: Circuit reservation acknowledgement message could not be sent on an ISUPICT because the Common Network Interface (CNI) ring was down.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Circuit reservation message (CRM) is received on the incoming trunk (ICT). The CNI ring is down; therefore, the ICT handler cannot send the "Circuit Reservation Acknowledgement" message. The trunk is made high and wet.

Final Handling Code 1924: ISUP Initial Address Message (IAM) contained an invalid called party number nature of address.

- (a) **Ineffective Attempt Type:** Pulsing Error (PSE)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The IAM is received on an ISUP trunk, and a Call Register (CR) is seized. An invalid nature of address in called-party number parameter is received. The 4ESS Switch sends a release message with the cause of invalid parameter contents.

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Final Handling Code 1925: ISUP incoming trunk (ICT) was on queue for a Call Register (CR) when a "Circuit Reservation" message was received.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The call is placed on queue for a CR. The 4ESS Switch sends a reset signal on the ICT; executes the disconnect sequence on the OGT, and then idles both trunks.

Final Handling Code 1926: Unexpected continuity (COT) message received while processing CRM.

- (a) **Ineffective Attempt Type:** Incoming Unreasonable Signal (IUR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A Call Register (CR) is seized and initialized; a cut is not expected in this state because it has already been received. The CR is seized and initialized. The COT message is received. The 4ESS Switch sends a reset signal on the ICT; executes the disconnect sequence on the OGT, and then idles both trunks.

Final Handling Code 1927: ISUP Initial Address Message (IAM) contained an invalid numbering plan for test call in called party number.

- (a) **Ineffective Attempt Type:** Pulsing Error (PSE)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The Initial Address Message (IAM) is received on an ISUP trunk and a Call Register (CR) is seized. The called party parameter in IAM is received. The numbering plan is not unknown for a test call. The trunk is idled after a REL W/cause = temporary failure is sent to the caller.

Final Handling Code 1928: Circuit reservation message received on an idle ISUP ICT but type of trunk is invalid.

- (a) **Ineffective Attempt Type:** Incoming Unreasonable Signal (IUR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The CRM was received, but incoming type of trunk was not from a local carrier connecting. A reset signal was sent on the ICT. The disconnect sequence was executed on the OGT, and then both trunks were idled.

Final Handling Code 1929: ISUP ICT timed out while waiting for an IAM when the CRM has already been received and processed.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The CRM was processed, and the COT message was received. The IM timer expired before the IAM message was received. The trunk will be idled after a UBS is sent to the caller.

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Final Handling Code 1930: The "Circuit Reservation" message has been received on a ISUP ICT, and the IAM contains bearer capability (BC) which indicates a broad band call (BBC).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM was received on an ISUP trunk, and a CR was seized. The CRM was already processed. The IAM that contained bearer capability parameter was received, which indicates a BBC call. The trunk will be idled after a UBS message is sent to the caller.

Final Handling Code 1931: A "Circuit Reservation Acknowledgement" message was received while an ISUP ICT call was busy to a CR.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CRA was sent on the ICT. The "Address Complete (ADC)" message was returned to the 1A/1B by the 3B. The call will be killed, and the ICT will be placed high and wet.

Final Handling Code 1932: An SSD message could not be sent on an ISUP ICT because the AT network interconnect boundary and the TOT is invalid.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An OGT received an SSD message. The AT network interconnect boundary and SSD message is to be sent, but the trunk is invalid. The trunk will be idled after a release w/cause = no route to destination is sent to the caller.

Final Handling Code 1933: Continuity (COT) failed on an ISUP ICT at an access tandem that was waiting for COT.

- (a) **Ineffective Attempt Type:** Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM or CCR was successfully processed, and COT timing was started. The COT check failed; that is, a COT message with a failed status was received. Call will be killed, and the ICT will go H&W with no immediate reset. An ISUP OGT will send a release message with a cause of temporary failure.

Final Handling Code 1934: ISUP ICT at an access tandem timed out while waiting for COT.

- (a) **Ineffective Attempt Type:** Continuity Check Failure (CKF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM was successfully processed, and COT timing was started. The COT times expired before the COT message was received. The ICT will be idled after a release message with a cause of temporary failure is sent on the ICT. For an ISUP OGT, a release message with a cause of temporary failure is sent on the OGT.

Final Handling Code 1938: Invalid network ID received in Transit Network Selection (TNS) parameter.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CR was seized, initialized, and IAM was being processed. If it was a domestic call the network identification plan field of the TNS was coded other than "0001" (3-digit CID with circuit code) or "0010" (4-digit CID with circuit code). If it was an international call it was other than "1111" (foreign administration identification). A release message was sent on the ICT with a cause value of "parameter with invalid coding", and location of "local interface controlled by this signaling link" in the cause indicator parameter.

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Final Handling Code 1939: The received number of CID digits does not match the allowed number of CID digits in the TSG.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CR was siezed, initialized, and initial address was being processed. The number of CID digits received in the transit network selection parameter in the initial address message does not match the number of CID digits that the TSG indicates can be received on this trunk. The switch sent a release message on ICT with a cause value of "invalid transit network selection" and location of "local interface controlled by this signaling link" in the cause indicator parameter.

Final Handling Code 1940: Received an invalid number of CID digits defined by the network identification plan.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CR was siezed, initialized, and Initial Address Message (IAM) was being processed. The received number of CID digits does not match the number of CID digits specified by the network identification plan field (3 or 4 digit CID). This resulted in an improperly formatted transit network selection parameter in the IAM. A release message was sent on the ICT with cause value of "parameter with invalid coding" and location of "local interface controlled by this signaling link" in the cause indicator parameter.

Final Handling Code 1941: A Transit Network Selection (TNS) parameter received for a call from an Interexchange Carrier (IXC).

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CR was siezed and initialized. The TNS parameter was present in the IAM received at the switches connected directly to the IXC on egress. A release message was sent on the ICT with cause value of service/option not availabe (63) and location of local network (0010) in the cause indicator parameter, or a tone/announcement was played associated with cause value 63.

Final Handling Code 1942: The DIRESUBS in retranslating for the TNR call, failed to obtain routing.

- (a) **Ineffective Attempt Type:** VAC
- (b) **Trunk Type:**
- (c) **Description:** This code occurs when TNR calls fail to obtain routing. The TNR SST is assigned to the call but routing was not obtained when retranslating DN. The switch finals the call with VIN treatment.

Final Handling Code 1943: ISUP OGT had a CRM returned to it and decided not to retry.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP OGT successfully built a CRM. The CRM was returned; either the call had been retried, or network management did not want it retried. The OGT was idled in memory.

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Final Handling Code 1944: ISUP OGT had a CRM returned to it and decided not to retry.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Signaling Trouble (SGT).
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CRM was built and sent to the ring. The CRM was returned. The OGT is idled in memory, and the call will be retried.

Final Handling Code 1947: The ISUP OGT handler timed-out waiting for CRA.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler successfully built and sent a CRM. The ISUP OGT handler timed-out waiting for the "Circuit Reservation Acknowledgement" message (CRA). The OGT was released, and a rehunt will be attempted.

Final Handling Code 1948: ISUP OGT handler received an out of order or irregular message after sending CRM will retry.

- (a) **Ineffective Attempt Type:** Unreasonable Signal (URS)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CRM was successfully sent by the ISUP OGT handler. A message was received which is either out of order or irregular. The OGT will be idled and a new OGT will be hunted.

Final Handling Code 1949: GRS was received by ISUP OGT handler while in CRM setup for retry.

- (a) **Ineffective Attempt Type:** Unreasonable Signal (URS)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler sent a CRM and may or may not have received CRA. Two-stage has not been started. A GRS was received on the OGT and this was a retry. The OGT was idled in memory.

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Final Handling Code 1950: GRS received by ISUP OGT handler while waiting for two-stage digit acceptance.

- (a) **Ineffective Attempt Type:** Unreasonable Signal (URS)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Two-stage digit reception was invoked to collect the rest of the EA sequence of digits. A GRS was received at the OGT and the OGT was idled in memory.

Final Handling Code 1951: ISUP OGT has been selected to send CRM on a trunk that does not have OCC type of trunk.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP OGT was selected with CH1 WSNO, WACU, or WAC2 (indicating EA MF/ISUP interconnecting). The OGT type of trunk was not OCC, and the OGT was idled in memory.

Final Handling Code 1953: A REL or RSC message was received at the ISUP OGT during CRM handling in a retry.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler has sent a CRM, and setup is proceeding normally during this retry. Two-stage digit reception has not been invoked yet. A REL was received. The OGT will be idled by sending an RLC forward.

Final Handling Code 1954: An RSC was received by ISUP OGT while waiting for two digit reception.

- (a) **Ineffective Attempt Type:** Unreasonable Signal (URS)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Two-stage digit reception was invoked to get the rest of the EA sequence. A RSC message was received at the OGT. The OGT will be idled by sending a RLC.

Final Handling Code 1955: A CRM was received at ISUP OGT. A CCR test will stop to process the CRM.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CCR message was successfully sent on an ISUP OGT. A CRM was received on the trunk that was doing the CCR test. The OGT is idled, and the ISUP ICT handler will be given the CRM so that the call can proceed.

Final Handling Code 1956: The ISUP OGT handler received an IAM after sending a CRM, and this switch has control.

- (a) **Ineffective Attempt Type:** Glare Control (GLC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler successfully sent a CRM. An IAM was received on the trunk that was previously sent a CRM. Since this switch has control, this call will go ahead.

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Final Handling Code 1957: ISUP OGT handler received IAM after sending CRM in a retry — the other switch controls.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler successfully sent a CRM during a retry. An IAM is received on the OGT. This switch does not have control, and this call has been retried once before. The OGT will be idled in memory, and the IAM will be given to the ICT handler for processing.

Final Handling Code 1958: The ISUP OGT handler received an IAM after sending a CRM; the other switch controls so we will retry.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler successfully sent a CRM. An IAM was received on the OGT, and the other switch has control. A rehunt is attempted; the new IAM is given to the ICT to handle, and the OGT is idled.

Final Handling Code 1959: The ISUP OGT handler received a CRM after sending an IAM in a retry. The other switch controls.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler successfully sent an IAM during a retry. A CRM has been received on the OGT. This switch does not have control, and this call has been retried once before. The OGT will be idled in memory, and the IAM will be given to the ICT handler to process.

Final Handling Code 1960: The ISUP OGT Handler received a CRM after sending an IAM, and this switch has control.

- (a) **Ineffective Attempt Type:** Glare Control (GLC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler successfully sent an IAM. A CRM was received on the OGT, but this switch has control. Since this switch has control, the original call goes ahead.

Final Handling Code 1961: The ISUP OGT handler received a CRM after sending an IAM. The other switch has control; so, we will retry.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler successfully sent an IAM. A CRM was received on the OGT, and this switch does not have control. A rehunt is attempted; the new CRM is given to the ICT to handle, and the OGT is idled.

Final Handling Code 1962: ISUP OGT timed out while waiting for ANI.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Pass along was invoked by ISUP OGT to get the ANI. The ISUP OGT timed out while waiting for the ANI. The OGT will be idled in memory.

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Final Handling Code 1963: An IAM message was received by the ISUP OGT while waiting for ANI.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Pass along was invoked by ISUP OGT to get an ANI. An IAM was received by ISUP OGT. The OGT is idled in memory, and the ISUP ICT handler is invoked to handle the IAM.

Final Handling Code 1964: A CRM message was received by the ISUP OGT while waiting for ANI.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Pass along was invoked by the ISUP OGT to get the ANI. A CRM message was received by the ISUP OGT handler. The OGT is idled in memory, and the ISUP ICT handler is invoked to handle the CRM.

Final Handling Code 1965: A CCR message was received by the ISUP OGT, while waiting for ANI.

- (a) **Ineffective Attempt Type:** Glare Release (GLR)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Pass along was invoked by the ISUP OGT to get ANI. A CCR message was received by ISUP OGT handler. The OGT is idled in memory, and the CCR message is passed to ISUP ICT handler to process.

Final Handling Code 1967: The ISUP OGT could not get ANI for a call that needs it.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Pass along was invoked to get the ANI. Pass along could not get the ANI or gave ISUP OGT an illegal ANI (digit count equal to zero or greater than ten). The OGT will be idled in memory.

Final Handling Code 1968: Blocking message received while waiting for ANI.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Backward Failure (BFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** Pass along was invoked to get the ANI needed for a call. The ISUP OGT handler needs the ANI to send the IAM for this call. A blocking message was received on the OGT. The OGT will be idled in memory.

Final Handling Code 1969: The ISUP OGT handler timed out waiting for CRA and this was a retry.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** The ISUP OGT handler successfully sent a CRM on a retry. The ISUP OGT handler timed out waiting for the CRA. Since this was the second try, the OGT will be released and the call will be final handled.

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Final Handling Code 1970: The ISUP OGT handler received an “Out of Order” or “Irregular” message after sending CRM on a retry.

- (a) **Ineffective Attempt Type:** Unreasonable Signal (URS)
- (b) **Trunk Type:** ISUP
- (c) **Description:** A CRM was successfully sent by the ISUP OGT handler on a retry. A message was received which is either out of order or irregular. The OGT will go H&W with an immediate reset.

Final Handling Code 1971: ISUP OGT handler was invoked to send CRM for a BBC call.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP OGT was selected. The call handling index (CHI) indicates that MF/ISUP interworking at access TANDEM, and this is a BBC call (not allowed). The OGT will be idled in memory.

Final Handling Code 1972: The CUG parameter in the IAM message cannot be stored.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An ISUP OGT was selected. A stable call accumulating register (SCAR) was not linked, or the closed user group (CUG) interlock code was not present in the SCAR, and the optional forward call indicator (OFCI) indicator was **CUG call, outgoing access allowed** or **CUG call, outgoing access not allowed**. A release message was sent with cause #87. Waiting for a release complete message.

Final Handling Code 1974: AT&T Trigger Platform (ATP) Disable message is received from ATP node while busy to the Call Register (CR)

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:**
- (c) **Description:** This condition occurs when an AT&T Trigger Platform (ATP) call is attempted. An invoke message is sent to the ATP node from the 1B processor requesting an ATP session for a particular feature. The ATP node does not accept the ATP session; most likely, the ATP database is not provisioned for the requested ATP feature. The call is routed without ATP monitoring.

Final Handling Code 1975: A request to disconnect and final a SDN-NRA subsequent call has been received.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** All incoming
- (c) **Description:** This code occurs on SDN NRA using ASR calls. The switch receives customized terminating announcement from NCP. The switch sends a Q.931 DISC message to ATP node to initiate subsequent call.

Final Handling Code 1976: The call has been default handled during SD processing, and the only call type available indicates query an NCP. Switch is not allowed to do so, call is killed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This code occurs on SD calls with status of SMO. The call is being default handled during SD processing. The only call type available indicates query an NCP but the switch is not allowed to do so. The call is final handled.

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Final Handling Code 1977: ISUP OGT requested a no-loopback continuity check test (CCK) which has failed, without a test requested loopback at the far end, a tone has been received indicating the presence of the pre-test loopback plug. A rehunt will not be performed and the call will be final handled.

- (a) **Ineffective Attempt Type:** CKF
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the final handling code (FHC) is not applied to domestic, 4-wire ISUP trunks only. An IAM will be received, and a pre-test loopback condition will be in effect. The call will be killed.

Final Handling Code 1978: Integrated Services User Part (ISUP) Outgoing Trunk (OGT) requested a no-loopback continuity check (CCK) which has failed. Without a test requested loopback at the far end, a tone has been received indicating the presence of the pre-test loopback plug. An advanced route rehunt will be performed to select another circuit.

- (a) **Ineffective Attempt Type:** CKF
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when using the informational Final Handling Code (FHC) which is generated for integrated services user part (ISUP) 4-wire trunks only. An initial address message (IAM) was received. The continuity check (CCK) test failed due to the presence of a pre-test loopback plug. Advance route to rehunt another circuit.

Final Handling Code 1979: The ISUP OGT handler received a backward failure release in a LEC call, indicating that audible ringing should be played.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** MF, DP, CCIS, ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by an ISUP OGT. A release was received. The cause parameter indicates that audible ringing should be played. The call was failed, and a backward failure was initiated by the ICT.

Final Handling Code 1980: The ISUP OGT handler received a backward failure release in a Domestic Call—VCA Treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Outgoing Addressing Failure (ADF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause indicated VCA treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1981: The ISUP OGT handler received a backward failure release in a Domestic Call, “Reorder” tone treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause indicated that “Reorder Tone” treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

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Final Handling Code 1982: The ISUP OGT handler received a backward failure release in a Domestic Call—busy tone treatment.

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by the ISUP OGT. A release was received. The cause indicated that busy tone treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1983: The ISUP OGT handler received a backward failure release in a Domestic call—"Reorder Announcement (ROA)" treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause indicated that ROA treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1984: The ISUP OGT handler received a backward failure release in a Domestic Call—NCA treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause indicated that NCA treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1985: The ISUP OGT handler received a backward failure release in a transit call—VCA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Outgoing Addressing Failure (ADF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause indicated that VCA treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1987: The ISUP OGT handler received a backward failure release in a transit call—Busy Tone treatment.

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause indicated that “Busy Tone” treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

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Final Handling Code 1988: The ISUP OGT handler received a backward failure release in a transit call—ROA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause indicated that ROA treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1989: The ISUP OGT handler received a backward failure release in a transit call—NCA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) National Congestion (NCS)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause indicate that NCA treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1990: The ISUP OGT handler received a backward failure release in an international outgoing call—IUC treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Outgoing Addressing Failure (ADF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause and location indicated that IVC treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1991: The ISUP OGT handler received a backward failure release in an international call —ROA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by the ISUP OGT. A release was received. The cause and location indicated that ROA treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1992: The ISUP OGT handler received a backward failure release in an international call—Busy Tone treatment.

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause and location indicated that “Busy Tone” treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1993: The ISUP OGT handler received a backward failure release in an international call—International Failure in Foreign Country (IFF) treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause and location indicated that IFF treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

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Final Handling Code 1994: The ISUP OGT handler received a backward failure release in an international call—INC treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by the ISUP OGT. A release was received. The cause and location indicated that INC treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1995: The ISUP OGT handler received a backward failure release in an international outbound overflow call—INC treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Outgoing Addressing Failure (ADF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The cause and location indicate that IVC treatment is required. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 1996: The ISUP OGT handler received a backward failure release in an international outbound overflow call—ROA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR is sent by ISUP OGT. A release is received. The cause and location indicated that ROA treatment is required. The call is failed, and a backward failure is initiated by the ICT.

Final Handling Code 1997: The ISUP OGT handler receives a backward failure release in an international outbound overflow call—Busy Tone treatment.

- (a) **Ineffective Attempt Type:** Far End Busy Failure (EBF)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR is sent by the ISUP OGT. A release is received. The cause and location indicated that Busy Tone treatment is required.

Final Handling Code 1998: The ISUP OGT handler receives a backward failure release in an international outbound overflow call—IFF treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR is sent by the ISUP OGT. A release is received. The cause and location indicated that IFF treatment is required. The call is failed, and a backward failure is initiated by the ICT.

Final Handling Code 1999: ISUP OGT handler receives a backward failure release in an international outbound overflow call—INC treatment.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR is sent by ISUP OGT. A release is received. The cause and location indicated that INC treatment is required. The call is failed, and a backward failure is initiated by ICT.

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Final Handling Code 2000: The ISUP OGT handler received a backward failure release in a Domestic Call—ROA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 2001: The ISUP OGT handler received a backward failure release in a Domestic Call—ROA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by the ISUP OGT. A release was received. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 2002: The ISUP OGT handler received a backward failure release in an international call—ROA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 2003: The ISUP OGT handler received a backward failure release in an international outbound overflow call—ROA treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 2004: ISUP OGT handler received a backward failure release in an international call—IFF treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The call will be failed, and a backward failure will be initiated by the ICT.

Final Handling Code 2005: The ISUP OGT handler received a backward failure release in an international outbound overflow call—IFF treatment.

- (a) **Ineffective Attempt Type:** Common Channel Interoffice Signaling (CCIS) Call Failure (CFL)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM, CRM or CCR was sent by ISUP OGT. A release was received. The call will be failed, and a backward failure will be initiated by the ICT.

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Final Handling Code 2006: An egress busy crankback (EBCBK) was received at a via switch. Send an EBCBK to originating toll switch.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM was sent to termination toll office (TTO). A CBK was received, and the egress busy indication was set in the hard to reach (HTR) parameter. The OGT is cleared; a RLC is sent. The ICT is cleared; an egress busy CBK is sent; then, wait for release complete (RLC).

Final Handling Code 2007: A call progress message with excessive delay was received by ISUPOGT.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM was sent, and an ACM was received. The CPG that was received contained an excessive delay indication in the BC1 parameter. Continue processing of call.

Final Handling Code 2008: An address complete message with excessive delay was received by ISUPOGT.

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An IAM was sent, and the ACM contained an excessive delay indication in the SC1 parameter. A new count is pegged, and normal process of call is continued.

Final Handling Code 2009: ISUPOGT Handler received a backward release message without a cause parameter.

- (a) **Ineffective Attempt Type:** Miscellaneous Abandon (MAB)
- (b) **Trunk Type:** ISUP
- (c) **Description:** An initial address message (IAM), circuit reservation message (CRM), or continuity check request (CCR) message was sent by the ISUPOGT Handler. A setup release message without the required cause parameter was received on the ISUP outgoing trunk. The 4ESS Switch initiates a backward failure treatment on the incoming trunk and sends a release complete (RLC) message on the outgoing trunk.

Final Handling Code 2010: An invalid NPA is detected in the equal access ANI digits.

- (a) **Ineffective Attempt Type:** Billing Number Failure (BNF)
- (b) **Trunk Type:** MF, ISUP
- (c) **Description:** A seizure occurred on an LCC MF or ISUP trunk, and II+ANI digits were received. II or OLI translations indicated that the NPA digits in the ANI were invalid. Trunk maintenance IMA is called, and IA trap message is printed with II and ANI digits. The call is not killed.

Final Handling Code 2011: The ISUP OGT handler received a backward failure release in a domestic call, and the coding standard was invalid—Reorder Tone treatment.

- (a) **Ineffective Attempt Type:** CCIS Call Failure (CFL)
- (b) **Trunk Type:** CCIS, ISUP
- (c) **Description:** An IAM, CRM, or CCR was sent by an ISUP OGT. A release was received. The coding standard was not "CCITT". The call was finaled and a backward failure was initiated by the ICT.

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Final Handling Code 2013: Invalid office data detected in AIN CNT structure. Detected by translations when the CTW in an AIN trigger is not SSP with subtype SIAQ on an incoming AIN call.

- (a) **Ineffective Attempt Type:** Integrity Check Failure (IKF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** The called number digits are received, and translation of the called number is attempted. An AIN CNT trigger is detected for which the call type and/or subtype are found to be invalid. This can only be accomplished via invalid recent change or ODA. The call is finalized, and all associated structures are cleared.

Final Handling Code 2014: A user abort message was received or sent on an AIN call using TCAP signaling.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** A query is sent to the SCP, and one or more messages may have been sent during a TCAP transaction between the SCP and SSP (4ESS switch). A user-related protocol error is detected in the message sent or received by the 4ESS switch SSP. The SSP detects protocol errors in messages from the SCP; the SCP detects protocol errors in messages from the SCP. The transaction with SCP is terminated. The call is final handled, and all associated resources are released.

Final Handling Code 2015: AIN TCAP — Protocol abort message sent or received on a call using the TCAP protocol.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** A query is sent to the SCP, and one or more messages may have been sent during the TCAP transaction between the SCP and SSP. A protocol error is detected in a message sent by or received by the SSP. The transaction with the SCP is terminated; the call is finalized; and all associated resources are released.

Final Handling Code 2016: AIN TCAP — An application error occurs on an AIN call using TCAP to communicate with the SCP.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** A query is sent to the SCP, and one or more messages is sent during the TCAP transaction between the SSP and SCP. While processing the call, the SCP or the SSP detects an application error. A message is sent, if applicable. The transaction with the SCP is terminated; the call is finalized, and all associated resources are released.

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Final Handling Code 2017: AIN TCAP — Initial query is returned as Unit Data Service Message (UDS) due to a transport problem.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** A query is sent to the SCP for this AIN call. An AIN called number trigger or trunk trigger is detected by translations. The query is returned by the 4ESS switch CNI, the STP, or the SCP. This type of error is usually encountered due to the problems in the CNI Network. It could occur due to Global Title Translation failure, subsystem failure, Network failure, etc. The TCAP transaction is terminated, the call is finalized, and all resources are idled.

Final Handling Code 2018: AIN TCAP — Initial query is returned by the DLN.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** An AIN trigger is detected and an AIN TCAP query is formulated and sent. The DLN detects an invalid situation in the TCAP message and returns the message to the 1A/1B. The TCAP transaction is terminated; the call is finalized, and all associated resources are released.

Final Handling Code 2019: AIN TCAP — Initial query is returned by CNI.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** Translations detect a trigger causing an AIN TCAP initial query to be sent to the SCP database. The TCAP query is formed and sent successfully. The 4ESS switch CNI detects an invalid routing condition and returns the message to the 1A/1B processor. The TCAP transaction is idled; the call is finalized, and all resources are released.

Final Handling Code 2020: AIN TCAP — Timed out while waiting for a response from the SCP database.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** A message is sent to the SCP; a response is expected. The message sent to the SCP is lost; or the SCP doesn't respond in the time allowed for the message sent by the SSP. The TCAP transaction is terminated; the call is finalized, and all call related resources are idled.

Final Handling Code 2021: AIN TCAP — A request is received from the SCP database to final handle this AIN call.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** A TCAP transaction begins with the SCP after a valid AIN trigger is detected. One or more messages are sent to the SCP. The SCP in control of the call requests that the call be killed. This final handling code can be expected in the normal operation of the AIN feature. The call is final handled, and all associated resources idled.

Final Handling Code 2022: AIN TCAP — The SCP sends a request to the 4ESS switch (SSP) to play an announcement which is not equipped on the AIN SCS frame

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** The 4ESS switch receives a request from the SCP to connect the call to an announcement. This can only occur after an AIN trigger is detected on the call. While attempting to attach the ICT to the SCS to play the announcement, the SCS detects that the announcement is not equipped on the frame. The transaction with the SCP is terminated; the call is final handled, and all call-associated resources are released.

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Final Handling Code 2023: AIN TCAP — While attempting to route an AIN call, using NSR, an invalid call type is detected.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** The TCAP response is received from the SCP and routing is attempted. While attempting to route the call, an invalid call type is detected. This occurs while the 4ESS switch is attempting to route the call on carrier information received from the SCP. The transaction with the SCP is terminated; the call is final handled, and all call-associated resources are idled.

Final Handling Code 2024: AIN TCAP — While processing a TCAP response from the SCP an invalid operation is detected.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** An SCP query message is sent by the 4ESS switch SSP to the SCP, starting a transaction. A message associated with this transaction is received by the 4ESS switch. While passing the TCAP message, an invalid operation is detected in some component. The transaction with the SCP is terminated, and all associated resources are released.

Final Handling Code 2025: AIN TCAP — Failed to send an AIN TCAP initial query due to CNL send buffer overflow.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** An AIN trigger is detected on an AIN call. While attempting to send a query or other message to the SCP, a buffer overflow condition is detected. The call is final handled, and all associated resources are idled. The transaction is not killed at the SCP side because the 4ESS switch is unable to send a message to the SCP. The SCP timer expires causing the transaction to be killed at the SCP.

Final Handling Code 2026: AIN TCAP — Stream down condition is detected while an attempt is being made to send a message to the SCP database.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** An event occurs (for example, AIN trigger, digits received from SCS) which causes the 4ESS switch to send a message to the SCP. While attempting to send the message to SCP, a stream down condition is detected—causing the message not to be sent. The 4ESS switch final handled the call, and idled all associated resources. No additional messages are sent to the SCP. The T1 timer at the SCP expires, causing the transaction to be terminated at the SCP.

Final Handling Code 2027: AIN TCAP — Call encountered AIN SOCC controls prior to sending a query to the SCP database.

- (a) **Ineffective Attempt Type:** Manual Network Management (MNM)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** An AIN trigger is encountered during translations, and a query is attempted. Prior to sending the query, a check of the NM control list determines that this call should be killed. The call is killed, and all resources are idled.

Final Handling Code 2028: AIN TCAP — AIN call is killed prior to SCP query due to NM controls with cause SCP overload.

- (a) **Ineffective Attempt Type:** Automatic Network Management (ANM)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** Translations determine that this call encountered an AIN trigger causing a query to be sent to the SCP. Prior to sending the query to the SCP, a check of the SCP overload ACG control list indicates the call should be controlled. The call is final handled, and all associated resources are released.

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Final Handling Code 2029: AIN TCAP — While processing a TCAP message from the SCP a protocol error is detected.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** A TCAP message is sent to the SCP while a TCAP transaction is still active. While passing the TCAP message that was passed from the SCP database, a protocol error is detected. The call is final handled, and all associated resources are idled. The TCAP transaction is terminated, and if necessary, the SCP is informed.

Final Handling Code 2030: AIN TCAP — Bad data is detected in the TCAP parameter that is received from the SCP.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** An AIN TCAP message is sent to the SCP by the 4ESS switch. This message could be a SCP query or a SCP conversation message. While passing the message or after passing the message, data within a parameter is determined to be invalid. The call is finalized handled, and the associated transaction with the SCP is terminated (if applicable).

Final Handling Code 2031: AIN call attempted at a switch which has not purchased the AIN feature.

- (a) **Ineffective Attempt Type:** Vacant Code (VAC)
- (b) **Trunk Type:** All domestic trunk types
- (c) **Description:** Translations successfully detects an AIN trigger. The switch does not have the AIN feature; therefore, the call is final handled, and all associated resources are released.

Final Handling Code 2032: Digit Reception (DR) LEC AIN before an initial database query (BIQ) Data Call (DAC) — an illegal condition — no Carrier ID information available.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The incoming routing digits were received and translated. The call was determined to be an AIN data call which is illegal. AIN is not allowed to support DATA type calls. ODA final handling treatment specified for AIN is used; otherwise, the default treatment was reorder announcement.

Final Handling Code 2033: Digit reception (DR) LEC AIN before an initial database query (BIQ) illegal SSP AIN subtype — no carrier ID information available.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The incoming routing digits were received and translated. The call was determined to be an AIN call, but the internal call type translations specified an incompatible SSP AIN subtype. ODA final handling treatment specified for AIN is used; otherwise, the default was Reorder Announcement.

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Final Handling Code 2034: Digit reception (DR) LEC AIN Before an initial database query (BIQ) illegal SSP AIN subtype — carrier ID information available.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The incoming routing digits were received and translated. The call was determined to be an AIN data call which is illegal. AIN is not allowed to support data type calls. ODA final handling treatment specified for AIN is used; otherwise, the default treatment was reorder announcement.

Final Handling Code 2035: Digit reception (DR) LEC AIN before an initial database query (BIQ) illegal SSP AIN subtype — carrier ID information available.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The incoming routing digits were received and translated. The call was determined to be an AIN call, but the internal call type translations specified an incompatible SSP AIN subtype. ODA final handling treatment specified for AIN is used; otherwise, the default was reorder announcement.

Final Handling Code 2036: Digit reception (DR) LEC AIN after an initial database query (AIQ) illegal SSP AIN subtype.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The routing digits received from an SCP database were translated and a determinant routing call type determined. Translations specified an incompatible SSP AIN subtype. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

Final Handling Code 2037: Digit reception (DR) LEC AIN before an initial database query (BIQ) an illegal call type was determined while analyzing the called party number.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** A carrier ID was translated as an AIN call with a subtype specifying analyze the called party number. The called party number translated to an illegal call type for AIN. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

Final Handling Code 2038: Digit reception (DR) LEC AIN before an initial database query (BIQ) while analyzing the called party number. No AIN Triggers were encountered for a Routing Data Block call type.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** A carrier ID was received and translated as an AIN call with a subtype specifying analyze the called party number. No AIN called number triggers were detected when translating or analyzing the called party number that resulted in a routing data block call type. The switch used ODA final handling treatment specified for AIN; otherwise, the default was Reorder Announcement.

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Final Handling Code 2039: Digit reception (DR) LEC AIN before an initial database query (BIQ), no II or OLI parameter exists for an analyze II OLI AIN subtype.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** A carrier ID was received and translated as an AIN call with a subtype specifying analyze II or OLI digits. There were no II or OLI digits to analyze. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

Final Handling Code 2040: Digit reception (DR) LEC AIN before an initial database query (BIQ), the II or OLI parameter does not correspond to an AIN call for an analyze II OLI AIN subtype.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** A carrier ID was received and translated as an AIN call with a subtype specifying analyze II or OLI digits. The II or OLI digits did not correspond to a valid AIN call. The switch used ODA final handling treatment specified for AIN; otherwise, the default was Reorder Announcement.

Final Handling Code 2041: Digit reception (DR) LEC AIN after an initial database query (AIQ), an illegal call type was determined while analyzing the called party number.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The routing digits received from an SCP AIN database translated into an illegal call type for AIN. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

Final Handling Code 2042: Digit reception (DR) LEC AIN after an initial database query (AIQ), unable to retranslate in POTS domain — there are no routing digits to translate.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** Translated the SSP information digits (or carrier ID) from the SCP AIN database, which specified analyze or translate the routing digits provided from the database. No routing digits were provided from the database. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

Final Handling Code 2043: Digit reception (DR) LEC AIN after an initial database query (AIQ) and retranslating digits an illegal AIN trigger type was determined.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The routing digits received from an SCP AIN database were translated. An invalid AIN trigger type was encountered for an AIN trigger. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

Final Handling Code 2044: Digit reception (DR) LEC AIN after an initial database query (AIQ) and retranslating digits from the database; the same exact AIN called number trigger was determined which is invalid.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The routing digits received from an SCP AIN database to an SSP (query database) call type were translated. The AIN trigger and corresponding called party number are identical to the previous stored trigger and number which caused the original database query; thus, there was no routing available for this call. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

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Final Handling Code 2045: Digit reception (DR) LEC AIN after an initial database query (AIQ) unacceptable routing Digit count received.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** The routing digits received from an SCP AIN database were translated. The number of routing digits received was unacceptable according to the corresponding call-type translations. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

Final Handling Code 2046: Digit reception (DR) LEC AIN after an initial database query (AIQ) translated the SSP information digits as Non_NSR and the call type was non-determinant.

- (a) **Ineffective Attempt Type:** Miscellaneous (MSC)
- (b) **Trunk Type:** All Domestic Trunk Types
- (c) **Description:** Translated the SSP information digits (or Carrier ID) from the SCP AIN database which specified a non-services routing (NSR) type of call. For an NSR, call the corresponding call type translations was non-determinant. The switch used ODA final handling treatment specified for AIN; otherwise, the default was reorder announcement.

Final Handling Code 2047: AIN TCAP — Non-fatal exception occurred on a call using AIN TCAP (Call-irregularity Report only).

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** ALL
- (c) **Description:** Call sent a query to the SCP, and AIN interaction was initiated. Some non-fatal exception occurred while processing the call. This exception is non-call affecting, and call processing will continue. Depending on the situation in which the call-irregularity occurs, the switch performs the appropriate actions.

Final Handling Code 2048: ATP ICT (P2) received “clear_OGT_wait” subtype facility message — the ATP incoming trunk was busy to CR.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The ICT was in the setup stage when it received clear_OGT_wait facility subtype message. The OGT was cleared and the ICT was put on hold.

Final Handling Code 2049: ATP ICT (P2) received “clear_OGT_wait” subtype facility message while P2 was on queue for CR.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The ICT was in CRQ state waiting for a CR. The ICT (P2) received “clear_OGT_wait” facility subtype message. The ICT was put on hold.

Final Handling Code 2050: ATP ICT (P2) received “clear_OGT_wait” subtype facility message while P2 was system integrity confused.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A phase 3 saved the call. An ICT (P2) received “clear_OGT_wait” facility subtype message while the call was in a SINCONFIT state. The switch cleared forward on OGT and put ICT on hold.

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Final Handling Code 2051: ATP P2 (ICT) received an unexpected "clear_OGT_wait" subtype facility message while in clearing state. (Trap only.)

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** An ICT (P2) was in clearing state. P2 received from the ATP node clear_OGT_wait message which was unexpected for the clearing substate. A trap message was printed.

Final Handling Code 2052: ATP P2 (ICT) timed out after receiving "clear_OGT_wait" subtype facility message. (Trap only.)

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** ICT (P2) received clear_OGT_wait subtype facility message. The timer that was set when receiving clear_OGT_wait message expired. A trap message was printed and a clearing message was sent to the ATP node.

Final Handling Code 2053: For a Q.931 ATP call, P1 could not pass a disconnect message to P2 while P2 (ICT) was on queue for a CR.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** This was an AT&T trigger platform (ATP) call and the ICT was a Q.931 ATP type of trunk. The setup message was put onto a CR queue. A disconnect message could not be passed to P2 (OGT). The call was released.

Final Handling Code 2054: ATP call could not pass a disconnect message from P1 to P2 while P2 was busy to a CR.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The ICT was busy to a CR and ATP P1 could not pass a disconnect to P2. The call was released.

Final Handling Code 2055: ATP call could not pass a disconnect from P1 to P2 while P2 was busy to a CR.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The call was busy to a TR when P1 could not pass disconnect to P2. The call was cleared.

Final Handling Code 2056: ATP could not pass disconnect from P1 to P2 while P2 (ICT) was connected to CDTSDI or SCS announcement.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** P2 (ICT) was connected to CDTSDI or an SCS announcement. The ATP node could not pass a disconnect message from P1 to P2. The switch cleared the call.

Final Handling Code 2057: ATP call could not pass disconnect from P1 to P2 while P2 was in ICT system integrity confused state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error
- (b) **Trunk Type:** Q.931
- (c) **Description:** A phase 3 saved the call. P1 could not pass a disconnect to P2. The switch cleared the call.

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Final Handling Code 2058: ATP call could not pass disconnect from P2 to P1 while P1 was in OGT SINT confused state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** A phase 3 saved the call. A disconnect could not be passed from P2 to P1. The switch cleared the call.

Final Handling Code 2059: An ATP Q.931 call could not pass a disconnect from P2 to P1 while P1 was in OANS or outgoing talking state.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** The call was in an outgoing state waiting for an answer or outgoing talking state. A disconnect message could not be passed to P1 from P2. The switch cleared the call.

Final Handling Code 2060: An unexpected message was received from the ATP node. Trap message printed includes message type.

- (a) **Ineffective Attempt Type:** Q.931 Protocol Error (QPE)
- (b) **Trunk Type:** Q.931
- (c) **Description:** An ATP call was set up. An unexpected message was received from the ATP node. The switch prints a trap message.

Final Handling Code 2061: The IBNS routing number, used for inbound international terminating operator assisted calls, fails to translate into a determinant call type

- (a) **Ineffective Attempt Type:** Miscellaneous Call Irregularity (MSC)
- (b) **Trunk Type:**
- (c) **Description:** This code is restricted to the inbound international terminating operator assisted calls where the IBNS feature is activated. An inbound-international-terminating-operator-assisted call is received; the original incoming called par number is successfully translated; and the call type is determined. The IBNS treatment of re-routing the call via an IBNS office data assembler (ODA) defined routing number fails. The call is final handled using the Vacant National Number Universal treatment.

Final Handling Code 2062: MAINTSK extra digit is received on the dial pulse (DP) call register queue (CRQ)

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This code applies only to a direct connected trunk with dial pulse signaling characteristics to the toll switch. A TELCO binary coded decimal zero or double zero and Permanent Signal Partial Dial treatment report is received, and an extra dial pulse digit is received. This call is not allowed to route.

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Final Handling Code 2063: Toll switch receives an operator requested call which is also identified as a data call

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This code occurs when the switch is restricted to originating AT&T switch (OAS), and the incoming trunk type is PBX (RD4_TOT_NODAL_SVC). The Universal T1.5 Access feature is activated, and the data call is sent to the operator. The incoming trunk is connected to the Vacant Code (VCA) announcement; this call is not allowed to route.

Final Handling Code 2064: Switch received a NODAL call requesting operator services or a NODAL resale/wholesale call, but could not translate BN to true BN.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** DP, MF, DTMF, ISUP, Q931
- (c) **Description:** This code occurs when the switch is restricted to originating AT&T switch (OAS), and the incoming trunk type is PBX (RD4_TOT_NODAL SVC). The Universal T1.5 Access feature is activated, and the attempt to translate the billing number (BN) to true BN fails. The incoming trunk (ICT) is connected to the Vacant Code announcement (VCA); this call is not allowed to route.

Final Handling Code 2065: Toll switch receives an operator requested voice call but can not translate true BN to operator service position system identification

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This code occurs when the switch is restricted to originating AT&T switch (OAS), and the incoming trunk type is PBX (RD4_TOT_NODAL SVC). The Universal T1.5 Access feature is activated, and the attempt to translate the billing number (BN) to operator service position system identification fails. The incoming trunk is connected to the Vacant Code (VCA) announcement; this call is not allowed to route.

Final Handling Code 2066: Easy Reach® 1+500 dialing plan — QDRS point code or sub-system number missing

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:**
- (c) **Description:** This code applies only when an **Easy Reach** 1+500 call is attempted. Direct Services Dialing (DSD), ODN, and Automatic Number Identification (ANI) are initialized; none of any QDRS point code or sub-system number is available. The caller is connected to the Vacant Code announcement, and the call is killed.

Final Handling Code 2067: Easy Reach® 1 + 500 Dialing Plan - Bad re-query information is received from database. This is a Call Irregularity report

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** DFLT
- (c) **Description:** This code is restricted to **Easy Reach** 1 + 500 calls. Transaction capabilities application part (TCAP) End message with invalid TCAP parameters is received from database. The call is routed, and the call irregularity is reported.

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Final Handling Code 2068: Easy Reach® 1+500 dialing plan — invalid incoming type of trunk (not lcc)

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:**
- (c) **Description:** This code applies only when an **Easy Reach** 1+500 call is attempted. The call type is determined but comes in on an invalid incoming trunk (not lcc). The caller is connected to the Vacant Code announcement, and the call is killed.

Final Handling Code 2069: The terminating AT&T switch or the originating AT&T switch gets operator service position system identification (OSPSID), but cannot translate OPSID to call type.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This condition occurs when the switch is either a terminating AT&T switch (TAS) or an originating AT&T switch (OAS). The switch receives OPSID but failed to translate OPSID to a call type. The incoming trunk is connected to the Vacant Code announcement (VCA); the call is not allowed to route.

Final Handling Code 2070: Integrated services digital network user part incoming trunk (ISUPICT) receives an out-of-range OPSID in the generic operation parameter. Since the OPSID is used for routing, the call is final handled. There is no outgoing trunk at this time; the OPSID is dumped into the outgoing state vector (SVOGT) field in the outgoing trunk side.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This condition occurs when there is no outgoing trunk for a call yet; the incoming trunk is received, and the out-of-range OPSID is in the generic operation parameter. An Initial Address message (IAM) contains out of range OPSID in the generic operation parameter. The ISUPICT finalizes the call.

Final Handling Code 2071: Service not allowed for non-operator feature.

- (a) **Ineffective Attempt Type:** QPE
- (b) **Trunk Type:** Q.931
- (c) **Description:** This code occurs when the ICT is Q931. The setup message is received, and the network specific facility in setup message requested a service that is not allowed for direct connect customers. The switch sends a release complete with cause 63 (service or option unavailable).

Final Handling Code 2077: Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 34, no circuit available. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.

- (a) **Ineffective Attempt Type:** Protocol Error (QPE)
- (b) **Trunk Type:** Any ICT, OGT, Q.931
- (c) **Description:** This code occurs when the outgoing trunk is Q.931. A setup message was sent. A disconnect or release complete message was received with a cause value. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2078: Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 41, temporary failure. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.

- (a) **Ineffective Attempt Type:** Protocol Error (QPE)
- (b) **Trunk Type:** Any ICT, OGT, Q.931
- (c) **Description:** This code occurs when the outgoing trunk is Q.931. A setup message was sent. A disconnect or release complete message was received with a cause value indicating temporary failure. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

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Final Handling Code 2079: Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 42, network congestion. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.

- (a) **Ineffective Attempt Type:** Protocol Error (QPE)
- (b) **Trunk Type:** Any ICT, OGT, Q.931
- (c) **Description:** This code occurs when the outgoing trunk is Q.931. A setup message was sent. A disconnect or release complete message was received with a cause value indicating network congestion. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2080: Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 63, service or option not available, unspecified. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** Protocol Error (QPE)
- (b) **Trunk Type:** Any ICT, OGT, Q.931
- (c) **Description:** This code occurs when the outgoing trunk is Q.931. A setup message was sent. A disconnect or release complete message was received with a cause value indicating service or option not available, unspecified. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2081: Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 34, no circuit available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, INUP
- (c) **Description:** This code occurs when the outgoing trunk is INUP. IAM message was sent out. The release MSG RCVD on OGT indicating no circuit is available. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2082: Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 41, temporary failure. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, INUP
- (c) **Description:** This code occurs when the outgoing trunk is INUP IAM message was sent out. The release MSG RCVD on OGT indicating temporary failure. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

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Final Handling Code 2083: Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 42, switching equipment congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, INUP
- (c) **Description:** This code occurs when the outgoing trunk is INUP. IAM message was sent. A release complete message was received with a cause value indicating switching equipment congestion. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2084: Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 44, channel not available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, INUP
- (c) **Description:** This code occurs when the outgoing trunk is INUP. IAM message was sent. A release complete message was received with a cause value indicating channel not available. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2085: Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 47, resource unavailable/unspecified. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, INUP
- (c) **Description:** This code occurs when the outgoing trunk is INUP. IAM message was sent. A release complete message was received with a cause value indicating resource unavailable/unspecified. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2086: Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 58, bearer capability not available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, INUP
- (c) **Description:** This code occurs when the outgoing trunk is INUP. IAM message was sent. A release complete message was received with a cause value indicating bearer capability not available. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

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Final Handling Code 2087: Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 63, service option available/unspecified. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, INUP
- (c) **Description:** This code occurs when the outgoing trunk is INUP. IAM message was sent. A release complete message was received with a cause value indicating service option not available/unspecified. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2088: Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 1, switching equipment congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, ITUP
- (c) **Description:** This code occurs when the outgoing trunk is ITUP. IAM message was sent. A release complete message was received with a signal value indicating switching equipment congestion. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2089: Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 2, circuit group congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, ITUP
- (c) **Description:** This code occurs when the outgoing trunk is ITUP. IAM message was sent. A release complete message was received with a signal value indicating circuit group congestion. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2090: Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 3, national network congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, ITUP
- (c) **Description:** This code occurs when the outgoing trunk is ITUP. IAM message was sent. A release complete message was received with a signal value indicating national network congestion. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

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Final Handling Code 2091: Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 5, call failure. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** OGT, ITUP
- (c) **Description:** This code occurs when the outgoing trunk is ITUP. IAM message was sent. A release complete message was received with a signal value indicating call failure. An attempt to rehunt a new outgoing trunk if the call is eligible for automatic routing.

Final Handling Code 2092: ISUP release message received with cause 34 (no circuit available) triggered route advance in setup state. This is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the release message is received on ISUP trunk. IAM message was sent out from the AT&T egress switch. The release message was received with cause value indicating call failure. Trigger the route advance if the call is eligible for automatic routing.

Final Handling Code 2093: ISUP release message received with cause 41 (temporary failure) triggered route advance in setup state. This is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the release message is received on ISUP trunk. The IAM message was sent out from the AT&T egress switch. The release message was received with cause value indicating call failure. Trigger the route advance if the call is eligible for automatic routing.

Final Handling Code 2094: ISUP release message received with cause 42 (switching equipment congestion) triggered route advance in setup state. This is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the release message is received on ISUP trunk. The IAM message was sent out from the AT&T egress switch. The release message was received with cause value indicating call failure. Trigger the route advance if the call is eligible for automatic routing.

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Final Handling Code 2095: ISUP release message received with cause 44 (requested circuit not available) triggered route advance in the setup state. This is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the release message is received on ISUP trunk. The IAM message was sent out from the AT&T egress switch. The release message was received with cause value indicating call failure. Trigger the route advance if the call is eligible for automatic routing.

Final Handling Code 2096: ISUP release message received with cause 47 (resource unavailable - unspecified) triggered route advance in setup state. This is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the release message is received on ISUP trunk. The IAM message was sent out from the AT&T egress switch. The release message was received with cause value indicating call failure. Trigger the route advance if the call is eligible for automatic routing.

Final Handling Code 2097: ISUP release message received with cause 58 (bearer capability not presently available) triggered route advance in setup state. This is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the release message is received on ISUP trunk. The IAM message was sent out from the AT&T egress switch. The release message was received with cause value indicating call failure. Trigger the route advance if the call is eligible for automatic routing.

Final Handling Code 2098: ISUP release message received with cause 63 (service/option not available - unspecified) triggered route advance in setup state. This is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DFLT
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when the release message is received on ISUP trunk. The IAM message was sent out from the AT&T egress switch. The release message was received with cause value indicating call failure. Trigger the route advance if the call is eligible for automatic routing.

Final Handling Code 2099: A service assist was requested by an NCP database on a Direct Services Dialing (DSD) call (A800,SDN,PCP,etc.). The TCAP message, forward disconnect, was not received by the switch to clear the service assist. The service assist to the assisting switch will be cleared and the call will be routed. This is a call irregularity report only, the call will not be killed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs on DSD calls in a service assist state. A query was sent to the NCP and a request to perform a service assist was received by the switch. The NCP did not send the switch a forward disconnect message to clear the service assist. The switch will clear the service assist and route the call.

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Final Handling Code 2100: A call for Universal Subscriber Data Structure (USDS) processing encountered a non-fatal error. The direct services dialing capability (DSDC) exception field indicates the specific error encountered. Call not final handled, Irregularity report only.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** DFLT
- (c) **Description:** This condition occurs when a call is determined to be eligible for USDS call processing. The call is designated eligible for USDS. While attempting USDS, an exception occurs causing the call to be routed to its destination without further USDS processing. The DSDC exception field on the trap indicates a specific exception. The call is allowed to proceed to the original called number.

Final Handling Code 2101: A Universal subscriber data structure (USDS) receives a request to deny the call from the USDS.

- (a) **Ineffective Attempt Type:** Direct Signaling Failure (DSF)
- (b) **Trunk Type:** DFLT
- (c) **Description:** This code applies when a call is applicable for Universal Subscriber Data Structure (DSDC) treatment. A query is sent to the USDS, and a response that indicates that the call is to be denied is received and successfully processed. The USDS analyzes the query and sends a message to the 4E processor indicating that the call should be final handled. The call is final handled while playing the Network Call Denial (NCD) announcement. The associated switch resource is idled.

Final Handling Code 2102: A protocol error was detected while possibly processing a check application status message. This is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs with DSDC or SDN call. A DSDC call is routed upon receiving instructions from the NCP, and the NCP message is received with a protocol error. The message is ignored by the switch.

Final Handling Code 2103: CCS7 message has illegal parameter. Drop and print the parameter. The call continues - this is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** CCS7
- (c) **Description:** This code is limited to ISUP trunks. An ISUP message is received with a parameter of illegal length. The switch drops the parameter, prints the message, and continues processing the ISUP message.

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Final Handling Code 2104: A 10 digit voice call was received in the SDNA domain.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on 10 digit 800 numbers received in the SDNA domain. The digits are successfully collected and translated but the 10 digit 800 number was received in the SDNA domain. The switch final handles the call.

Final Handling Code 2105: This is for call irregularity trap which reports the failure of the 1B to store ATP or UUI data from the ATP node.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** Q.931 ATP
- (c) **Description:** This code is restricted to an ATP subsequent call in setup stage. A request from ATP node to initiate subsequent call is received but the UUI can not be stored in the 1B. The switch drops UUI and continues the call.

Final Handling Code 2106: A call determined to be eligible for USDS/Leave-A-Message processing encountered a problem with sending a Network Routing Number query or a problem with the USDS response to the NRN Query.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** Domestic Incoming
- (c) **Description:** This code occurs on calls eligible for USDS/ Leave-A-Message(LAM) call processing. The TCAP END message is received with an Invoke component with operation "Provide Instructions- Invoke Switch Capabilities". Caller selects an Enhanced Service Provider (ESP) Identification that is not the default ESPID. Processing is in Explicit Mode - Multiple ESP LAM processing. A problem is encountered attempting to send a NRN query to USDS or with the response to the NRN query. The DSDC Exception field on trap indicates the specific USDS exception. The call is final handled and reorder announcement is played. Associated switch resources are idled.

Final Handling Code 2107: Bad call type received from digit translations for a USDS/LAM call.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** Domestic Incoming
- (c) **Description:** This code occurs on calls eligible for USDS/ Leave-A-Message(LAM) call processing. A response is received from the USDS database with routing instructions after a query is sent to the USDS database. There is no valid translations for the routing number received from the USDS database. The call is final handled and reorder announcement is played. Associated switch resources are idled.

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Final Handling Code 2110: A call eligible for Segmentation Directory (4E22R2 and later) encountered a non-fatal error. The exception code field indicates the specific error encountered. Call not final handled - this is a call irregularity report only.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** Domestic Incoming
- (c) **Description:** This code occurs on calls generating a SD query for SD eligible calls. The call is determined to be SD Mode of Operation (SMO) and the SD attempt incurred an exception causing the call to be routed and recorded without further SD processing. Specific reasons for exception are indicated on trap SD exception code fields. The call is allowed to proceed to the original called number.

Final Handling Code 2111: A Segmentation Directory (SD) call received a request to deny the call from SD (4E22R2 and later).

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:** Domestic Incoming
- (c) **Description:** This code occurs on SD Mode of Operation (SMO). A query is sent to SD and a response indicating deny call is received and successfully processed. The SD analyzes the query and sends a message to the switch to final handle. The call is final handled and the NCD announcement is played. Associated switch resources are idled.

Final Handling Code 2112: A request to disconnect and final a Segmentation Directory (SD) (4E22R2 and later) call has been received from Service Processor/NCP (SP).

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** Domestic Incoming
- (c) **Description:** This code occurs in SD Mode of Operation (SMO). A query is sent to SP and a response indicating disconnect call is received and successfully processed. The SP analyzes the query and sends a message to the switch to final handle. The call is final handled.

Final Handling Code 2113: International inbound global software defined network (GSDN) call. The call tried to default handle, but cannot route without Network Control Point (NCP) interaction.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** NA
- (c) **Description:** This code occurs when the call is a GSDN SMO call. An segmentation directory (SD) query was generated for this call. The GSDN call was determined to be in segmentation mode of operation (SMO) call. The call is to be default handled (route and record) without SD processing. As the GSDN called numbers are not national, these should be killed. The call will be killed.

Final Handling Code 2115: Translation of II or OLI versus calltype service category failed screening.

- (a) **Ineffective Attempt Type:** BNF
- (b) **Trunk Type:** MF & ISUP
- (c) **Description:** This code occurs when the switch is restricted to AT&T/Unitel and II/OLI/Service category combination. The called party number is successfully translated, and the call is denied based on II digits/Service category fraud prevention. The call is final handled, and the caller hears vacant code announcement.

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Final Handling Code 2118: Universal International Freephone access disallowed.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ALL ICT
- (c) **Description:** This code is restricted to UIFN access. Digit translation successfully completes, and the UIFN feature is not activated. The call is final handled, and the caller hears vacant code announcement.

Final Handling Code 2119: Universal International Freephone Call is blocked by Code Control.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ALL ICT
- (c) **Description:** This code is restricted to UIFN access. Digit translation successfully completes, and the UIFN call is blocked by International INWATS code control. The call is final handled, and the caller hears all circuit busy announcement.

Final Handling Code 2120: Received a request to play a terminating announcement on an Advanced Intelligent Network data call.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** Domestic Incoming
- (c) **Description:** This code occurs on data calls which have queried the AIN SCP. A response message is received indicating that a custom announcement should be played. An announcement cannot be played to a data call; so, the call is final handled. Associated resources are idled.

Final Handling Code 2121: An Advanced Intelligent Network (AIN) called number trigger was detected on the called number received from the BOC SSP 800 SCP. The call is a data call and AIN data feature is not purchased.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** Domestic Incoming
- (c) **Description:** This code occurs on data calls which have queried the SSP 800 SCP. A response message is received for which an AIN Called Number Trigger (CNT) was detected. The AIN Data Calls feature is not purchased; so, the call is cleared and associated resources are idled.

Final Handling Code 2134: Used to attempt to redirect a call to an AT&T work center when a call is in a pre-ringing state before an ACM is received. If the call cannot be redirected then the caller will hear a network call denial (NCD) database announcement. This could be a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** There are no restrictions to this code. A NAI query was sent to the 2LAC/NCP. The 2LAC/NCP has data that indicates this customer had delinquent payments for services. The call is either redirected to an AT&T work center or the call is final handled.

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Final Handling Code 2135: Used for Blocked International Call Deny Reply Code before answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:** LCC, NODAL DIRECT CONNECT
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2136: Used for Blocked International Call Deny Reply Code after answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:** LCC, NODAL DIRECT CONNECT
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2137: Used for Blocked Domestic Call Deny Reply Code before answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:** LCC, NODAL DIRECT CONNECT
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2138: Used for Blocked Domestic Call Deny Reply Code after answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2139: Used for Blocked NPA-NXX Deny Reply Code before answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2140: Used for Blocked NPA-NXX Deny Reply Code after answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

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Final Handling Code 2141: Used for Blocked Country Deny Reply Code before answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2142: Used for Blocked Country Deny Reply Code after answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2143: Used for Blocked Country+City Deny Reply Code before answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2144: Used for Blocked Country+City Deny Reply Code after answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2145: Used for Blocked World Zone Deny Reply Code before answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2146: Used for Blocked World Zone Deny Reply Code after answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

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Final Handling Code 2147: Used for Blocked Specific Destination Number Deny Reply Code before answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2148: Used for Blocked Specific Destination Number Deny Reply Code after answer received. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2149: Used for other type of deny call before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2150: Used for other type of deny call after answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received and the 2LAC/2NCP has data that indicates this customer had delinquent payments for services. The call is terminated by DSD clearing the call.

Final Handling Code 2151: Friendly reply code one before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

Final Handling Code 2152: Friendly reply code two before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

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Final Handling Code 2153: Friendly reply code three before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

Final Handling Code 2154: Friendly reply code four before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

Final Handling Code 2155: Friendly reply code five before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

Final Handling Code 2156: Friendly reply code six before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

Final Handling Code 2157: Friendly reply code seven before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

Final Handling Code 2158: Friendly reply code eight before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

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Final Handling Code 2159: Friendly reply code nine before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

Final Handling Code 2160: Friendly reply code ten before answer. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** NCD
- (b) **Trunk Type:**
- (c) **Description:** A DSD Query is received, and the 2LAC/2NCP has data that refers to the call being disconnected if "before answer". The call is disconnected when the condition is "before answer"; otherwise, the call continues.

Final Handling Code 2164: TSAA egress busy crankback.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on calls routing to a TSAA customer at a terminating switch. The IAM indicates that TSAA crankbacks are allowed but the trunk hunt could not find an outgoing trunk. An egress busy crankback message is sent to the originating switch which attempts to route on the location routing number.

Final Handling Code 2165: Invalid call type detected for location routing number. This is a Call Irregularity report.

- (a) **Ineffective Attempt Type:** VAC
- (b) **Trunk Type:** ISUP & MF
- (c) **Description:** This code occurs when the called number is ported to an alternative local service provider. The switch received a location routing number, and the attempt to translate the digits found an invalid (non-determinate) call type. The switch then attempts to route the call using the original called number.

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Final Handling Code 2166: TSAA NSN and LRN (received from either the OSPS or NCP) failed routing.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This code occurs on calls routed from a TSAA customer at an originating site. A TSAA NSN is received from either a OSPS or the NCP and could not route to the NSN or on the LRN. Attempts to route on the ported number fails translation. The call is finaled with vacant code treatment.

Final Handling Code 2167: A RELEASE message with an ANSI CAUSE code of 26 (can't complete to the ported number) was received.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on called numbers ported to an alternative Local Service Provider (LSP). The IAM is sent to the terminating LSP with Location Routing Number and ported number GAP but the LSP can't complete the call. The call is finaled, and the switch sends RELEASE with ANSI CAUSE 26 or applies reorder tone.

Final Handling Code 2168: The ported number GAP was not received from OSPS on a Local Number Portability (LPN).

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on OSPS incoming trunks. The IAM contains the NSN GOP parameter but the ported number GAP was not received. The switch sends release message with a cause value of 38 (Network out of order).

Final Handling Code 2169: The Network Switch Number (NSN) received in the NSN Generic Operation Parameter (GOP) from an OSPS was out of range.

- (a) **Ineffective Attempt Type:** VCA
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on TSAA calls with OSPS incoming trunks. The IAM contains the NSN GOP parameter but the NSN received is greater than the maximum value allowed.

Final Handling Code 2170: The Local Service Provider (LSP) did a LPN query. The incoming trunk type is LCC; the M bit of the Forward Call Indicator (FCI) parameter is set to zero, and a ported number GAP was received. This is a call irregularity.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when IAM is received from a switched access trunk (LCC). The IAM contains the M bit of the FCI set to zero and a ported number GAP but the LSP did a LNP query for a toll call. The switch ignores the LSP LNP query, and continues ISUP processing.

Final Handling Code 2171: The Local Service Provider (LSP) did a LPN query. The incoming trunk type is LCC; the M bit of the Forward Call Indicator (FCI) parameter is set to one, and a ported number GAP was received. This is a call irregularity.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when IAM is received from a switched access trunk (LCC). The IAM contains the M bit of the FCI set to one and a ported number GAP but the LSP did a LNP query for a toll call. The switch ignores the LSP LNP query, and continues ISUP processing.

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Final Handling Code 2172: An invalid combination of ISUP LPN parameters was received from OSPS. This is a call irregularity.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when IAM is received from an OSPS incoming trunk. The IAM contains the M bit of the FCI set to zero and a ported number GAP but the LSP did a LNP query for a toll call. The switch ignores the LSP LNP query and continues ISUP processing.

Final Handling Code 2173: The Local Service Provider (LSP) did a LPN query. The incoming trunk type is LCC, the M bit of the Forward Call Indicator (FCI) parameter is set to one, and the ported number GAP is not received. This is a call irregularity.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs when IAM is received from a switched access trunk (LCC). The IAM contains the M bit of the FCI set to one but the IAM did not contain a ported number GAP. The switch ignores the LSP LNP query and continues ISUP processing.

Final Handling Code 2174: The ported number GAP did not contain 10 digits. This is a call irregularity.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on calls ported to an alternative LSP. The IAM is received and contains a ported number GAP that does not contain 10 digits. The switch continues call processing without the ported number GAP.

Final Handling Code 2175: NSN received from AT&T Local Number Portability (LNP) NCP was not within a valid range.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** All Domestic Sign. Types
- (c) **Description:** This code occurs on queries to the ATT LNP NCP database that must be required for either/both ANI/Destination number. A query is received at the database and a response is sent to the switch. The NSN received by the switch from the NCP was not within the valid range of NSNs. The switch terminates the call.

Final Handling Code 2176: ACG control due to ATT LNP NCP overload encountered on destination number. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on calls with DN/ANIS open to portability. A query to the ATTLNP is required, and it encountered an ABC control on destination number. A call irregularity report is printed, and the switch attempts to route the call.

Final Handling Code 2177: ACG control due to OSS-initiated control encountered on destination number. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on calls with DN/ANIS open to portability. A query to the ATTLNP is required, and it encountered an ACG control on destination number. A call irregularity report is printed, and the switch attempts to route the call.

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Final Handling Code 2178: AT&T LNP NCP has indicated ANI/ Destination Number not portable. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on calls where a query to the ATT LNP NCP must be required on either or both ANI/Destination number. A query to the ATTLNP is received, and the ANI/ Destination number was not portable. A call irregularity report is printed, and the switch attempts to route the call.

Final Handling Code 2179: Return error component received from the AT&T LNP NCP. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on calls where a query to the ATT LNP NCP must be required on either or both ANI/Destination number. A query to the ATTLNP is received, and the return error message is received from the database. The exception code field in the call irregularity trap contains the specific reason. A call irregularity report is printed, and the switch attempts to route the call.

Final Handling Code 2180: Received reject message from AT&T LNP NCP. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on calls where a query to the ATT LNP NCP must be required on either or both ANI/Destination number. A query to the ATTLNP is received, and a reject message is received from the database. The exception code field in the call irregularity trap contains the specific reason. A call irregularity report is printed, and the switch attempts to route the call.

Final Handling Code 2181: Received abort message from AT&T LNP NCP database. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on calls where a query to the ATT LNP NCP must be required on either or both ANI/Destination number. A query to the ATTLNP is received, and an abort message is received from the database. The exception code field in the call irregularity trap contains the specific reason. A call irregularity report is printed, and the switch attempts to route the call.

Final Handling Code 2182: Message received from AT&T LNP NCP was in error. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on calls where a query to the ATT LNP NCP must be required on either or both ANI/Destination number. A query to the ATTLNP is received, and a message received from the database was found in error. The exception code field in the call irregularity trap contains the specific reason. A call irregularity report is printed, and the switch attempts to route the call.

Final Handling Code 2183: An error was found in the SCCP header of a message received from AT&T LNP NCP. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** All
- (c) **Description:** This code occurs on calls where a query to the ATT LNP NCP must be required on either or both ANI/Destination number. A query to the ATTLNP is received, and an error was found while parsing the SCCP header of the received message. The exception code field in the call irregularity trap contains the specific reason. A call irregularity report is printed, and the switch attempts to route the call.

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Final Handling Code 2184: LNP query timeout. This is a call irregularity report.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:**
- (c) **Description:** This code occurs when either the routing number or the billing number is open to portability. The switch determines that an LNP query is needed for the call successfully sends the query message but the response is not received within 2 seconds. The call is routed using the original routing number.

Final Handling Code 2185: Translations encountered unusable routing when translating the Destination Number (DN) after either having launched an LNP query and receiving this switch's called party number (LRN) in the reply or receiving an incoming call from OSPA from which the LRN belonged to this switch.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on an incoming call from OSPA or LNP Query reply received and the LRN is the switch's LRN. The Called Party Number is received via LNP reply or incoming call from OSPA and the DN fails to be translated. The call is killed with vacant code treatment.

Final Handling Code 2186: In handling case of switch receiving its own LRN at the terminating switch, retrieved and tried to translate the called party number in the Ported Number Gap and failed to get normal routing.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs only at a terminating switch. The switch receives its own LRN and a ported number GAP and the translation of the CPN in the ported number GAP fails to get normal routing. The call is killed with vacant code treatment.

Final Handling Code 2187: Translations found invalid LRN for call received on an LSP-Local incoming trunk (ISUP only). Called party number (LRN) must belong to this switch.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on calls received on LSP-Local Incoming trunks (ISUP only). The CPN is translated and it is found that the LRN received is not this switch's LRN. The call is killed and a release sent with ANSI standard cause #26 back on the ISUP ICT.

Final Handling Code 2188: Translations found invalid PNG for call received on an LSP-Local incoming trunk (ISUP only). Called party number (LRN) belongs to this switch and the PNG was retrieved and translated but resulted in a FHT calltype.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on calls received on LSP-Local Incoming trunks (ISUP only). The CPN and PNG are translated and the PNG results in a FHT calltype. The call is killed and a release sent with ANSI standard cause #26 back on the ISUP ICT.

Final Handling Code 2189: The call was received on an LSP-Local MF or ISUP incoming trunk, and for the ISUP, the FCI M-bit received was zero. Digits translations of the received called number revealed a vacant code and the number was not in the Local Exchange Routing Guide table.

- (a) **Ineffective Attempt Type:** VCA
- (b) **Trunk Type:** ISUP,MF
- (c) **Description:** This code occurs on calls received on LSP-Local Incoming trunks (ISUP only). The CPN is translated and reveals a vacant code and the number is not in the LERG table. The call is killed and a release sent with ANSI standard cause #31 back on the ISUP ICT.

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Final Handling Code 2190: The call was received on an LSP-Local MF or ISUP incoming trunk and for ISUP the FCI M-bit received was zero. Digits translations of the received called number revealed it was this switch's Local Exchange Routing Guide Assigned Number, but the reply to the LNP query indicates this number is not ported.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP,MF
- (c) **Description:** This code occurs on calls received on LSP-Local Incoming trunks (ISUP only). The CPN is successfully translated and the LNP response is received. However, the reply to the LNP query indicates this number is not ported. The call is killed with a standard vacant code treatment.

Final Handling Code 2191: The LNP query made for the Digital Link feature failed for various reasons including controls prohibit sending and timeout waiting for the reply. The condition is encoded in the DSD exception code.

- (a) **Ineffective Attempt Type:** DSF
- (b) **Trunk Type:** ISUP,MF
- (c) **Description:** This code occurs on calls eligible to query the LNP database. The switch attempts to send an LNP query but the query fails and the condition is encoded in the DSD exception code. The call is killed with a call failure.

Final Handling Code 2192: Performed an LNP query for Digital Link feature when finding the routing number was the Local Exchange Routing Guide Assigned Number. The reply from the database contained a destination number for which the routing translations failed to provide usable routing.

- (a) **Ineffective Attempt Type:** VCA
- (b) **Trunk Type:** ISUP,MF
- (c) **Description:** This code occurs on calls eligible to query the LNP database. The switch receives a reply to the LNP query that contains a DN for which the routing translation failed to provide usable routing. The call is killed with vacant code treatment.

Final Handling Code 2193: A Ported Number Generic Address Parameter that is not formatted correctly was received from a LSP trunk for a local nodal call that is terminating to a local nodal customer.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ISUP
- (c) **Description:** This code occurs on calls received on LSP incoming trunks. The ported number Generic Address Parameter is received from an LSP trunk but is not formatted correctly. The call is killed with a release message with cause of "invalid number format (address incomplete)".

Final Handling Code 2194: Suspected Fraudulent SDN NRA call being killed (Do Not play any announcement - High and Wet Treatment with No Immediate Reset [AKA Action] is called for.)

- (a) **Ineffective Attempt Type:** MAB
- (b) **Trunk Type:** None
- (c) **Description:** This code is to be used for fraudulent callers only. The call was answered. Caller was thought to be fraudulent. The switch disconnected the caller without any notification.

Final Handling Code 2195: Handling a reply from Network Routing and Numbering Database (NRNDB) for a non final route and encountered invalid DSN routing.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs when queried Network Routing and Numbering Database (NRNDB). A response was received from the NRNDB. While attempting a non final route from the NRNDB an invalid DSN routing was encountered. Additional routes from the NRNDB will be attempted.

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Final Handling Code 2196: Handling a reply from Network Routing and Numbering Database (NRNDB) for a non final route and Foreign Administration ID (FAI), received from database does not match data in MCT Table.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs when queried NRNDB. A response was received from the NRNDB. A non final route returned by the NRNDB contains a Foreign Administration ID (FAI), that does not match an entry in the MCT Table. Additional routes from the NRNDB will be attempted.

Final Handling Code 2197: Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and encountered invalid DSN routing.

- (a) **Ineffective Attempt Type:** VAC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs when queried NRNDB. A response was received from the NRNDB. While attempting the final route by the NRNDB an invalid DSN routing was encountered. The call will be final handled using the treatment returned by the NRNDB.

Final Handling Code 2198: Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and Foreign Administration ID (FAI), received from database does not match data in MCT Table.

- (a) **Ineffective Attempt Type:** VAC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs when queried NRNDB. A response was received from the NRNDB. The final route returned by the NRNDB contains a Foreign Administration ID (FAI), that does not match an entry in the MCT Table. The call will be final handled using the treatment returned by the network numbering database.

Final Handling Code 2199: Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and could not route call.

- (a) **Ineffective Attempt Type:** NCA
- (b) **Trunk Type:** ALL
- (c) **Description:** This code occurs when queried NRNDB. A response was received from the NRNDB. Exhausted routing options for all routes returned from NRNDB. The call will be final handled using the treatment returned by the network numbering database.

Final Handling Code 2208: Handling a reply from Network Routing and Numbering Database (NRNDB) for a call and received database instruction to dispose of call using no circuit condition (an override should be specified).

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Communicated with NRNDB. The NRNDB instructed the switch to terminate the call. The 4E switch will terminate the call with a No Circuit Announcement (NCAN).

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Final Handling Code 2209: Handling a reply from Network Routing and Numbering Database (NRNDB) for a domestic call and encountered terminate call condition (see Exception Code for reason).

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Communicated with NRNDB. The NRNDB instructed the switch to disconnect call with an announcement. The 4E switch will terminate the call with an announcement.

Final Handling Code 2210: Handling a reply from Network Routing and Numbering Database (NRNDB) for an International (INTL) call and encountered terminate call condition (see Exception Code for reason).

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Communicated with NRNDB. The NRNDB instructed the switch to disconnect call with an International Vacant Code Announcement (IVCA). The 4E switch will terminate the call with an IVCA.

Final Handling Code 2211: Handling a query to the Network Routing and Numbering Database (NRNDB) for a domestic call and encountered ACG control that requires the call to be terminated.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Attempted to query the NRNDB. While attempting to send a query to the NRNDB, an ACG control was encountered on the routing digits. The 4E switch will terminate the call with an announcement.

Final Handling Code 2212: Handling a query to the Network Routing and Numbering Database (NRNDB) for an International (INTL) call and encountered an ACG control that requires the call to be terminated.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Attempted to query NRNDB. While attempting to send a query to the NRNDB, an ACG control was encountered on the routing digits that required the switch to terminate the call. The 4E switch will terminate the call with an INTL announcement.

Final Handling Code 2213: Handling a reply from the Network Routing and Numbering Database (NRNDB) for a call. The database returned a return error component with an error code of missing routing record. For this case the NCP requires the call to be terminated.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Communicated with NRNDB. Received instructions from NRNDB to terminate the call due to missing routing records. The 4E switch will terminate the call with an International Vacant Code Announcement (IVCA).

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Final Handling Code 2214: Handling a query to the Network Routing and Numbering Database (NRNDB) for a domestic call and encountered ACG control that requires the call to be default routed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Attempted to query NRNDB. While attempting to send a query to the NRNDB, an ACG control was encountered on the routing digits that require the switch to default route the call. The 4E switch will route the call based on current routing digits and routing information.

Final Handling Code 2215: Trying to query a Network Routing and Numbering Database (NRNDB) for an International (INTL) call and encountered ACG control that requires the call to be default routed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Attempted to query NRNDB. While attempting to send a query to the NRNDB, an ACG control was encountered on the routing digits that require the switch to default route the call. The 4E Switch will route the call to a non World Zone 1 (WZ1) location based on current routing digits and routing information.

Final Handling Code 2216: Trying to query a Network Routing and Numbering Database (NRNDB), and failed to launch the query (see Exception Code for reason). The call will be default routed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. A TCAP Begin message is built and an attempt is made to send the message to the NRNDB. It failed to send the message to the NRNDB either due to a buffer overflow condition, or the stream was down. The 4E Switch will default route the call with current routing digits and routing information.

Final Handling Code 2217: Handling a reply from the Network Routing and Numbering Database (NRNDB) for a call. The database returned a return error component with an error code of missing routing record. For this case the NCP requires the call to be default routed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Communicated with NRNDB. Received instructions from NRNDB to default route the call due to routing records provisioned erroneously. The 4E switch will default route the call with the current routing digits and routing information.

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Final Handling Code 2218: Received one of several possible TCAP invalid/erroneous messages from Network Routing and Numbering Database (NRNDB). The call will be default routed.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Communicated with NRNDB. Switch received message from NRNDB that contained an error, an Exception Code will be included in the Call Irregularity Report identifying the specific error. The 4E Switch will default route the call with the current routing digits and routing information.

Final Handling Code 2219: No reply received from Network Routing and Numbering Database (NRNDB), OGTS0000 timed out before reply to the begin message received. Call will attempt to be routed with switch populated routing data called default routing.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Attempted to send query (TCAP Begin message) to NRNDB. Switch waited for 2 seconds for a response from the NRNDB but did not receive a response. The 4E Switch will default route the call based on current routing digits and routing information.

Final Handling Code 2220: No reply received from Network Routing and Numbering Database (NRNDB), OGTS0000 timed out before reply to a continue message received. Call will attempt to be routed with switch populated routing data called default routing.

- (a) **Ineffective Attempt Type:** MSC
- (b) **Trunk Type:** ALL
- (c) **Description:** This code applies only to International (INTL) calls interacting with NRNDB. Attempted to requery (TCAP continue message) NRNDB for additional routing information. Switch waited for 2 seconds for a response from the NRNDB but did not receive a response. The 4E Switch will default route the call based on current routing digits and routing information.

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Notes

Abbreviations

A

ABNS

Abandons

ACB

Access Barred

ACG

Automatic Code Gap

ACH

Attempts Per Circuit Hour

ACI

AT&T Communications ISDN

ACISDN

AT&T Communications Integrated Services Digital Network

ACM

Address Complete Message

ACO

Address Complete

ACR

Auxiliary Call Register

ACSI

ANI Delivery Service Index

ADC

Acceptable Digit Count

ADC

Address Complete

Abbreviations

ADCR

Alternate Destination Call Redirection

ADF

Common Channel Interoffice Signaling (CCIS) Outgoing Addressing Failure

ADI

Address Incomplete

AFA

ANI Failure Action

AIF

Automatic Number Identification Failure

AIN

Advanced Intelligent Network

AIT

Automatic Number Identification (ANI) Office Failure

ALA

Adjunct Logical Address

AMA

Automatic Message Accounting

ANF

Automatic Number Identification (ANI) Failure

ANI

Automatic Number Identification

ANID

Automatic Number Identification Delivery Service

ANM

Automatic Network Management

ANS

Answer

Abbreviations

AOF

Automatic Number Identification Office Failure

APP

Application Transport Parameter

ASSET

Advanced Switchable Signaling and Echo Canceling Terminal

AT

Access Tandem

ATNS

Access Tandem Transit Network Selection

ATO

Address Complete Time-Out

ATP

AT&T Trigger Platform

ATP

Access Transport Parameter

B

BBC

Broad Band Call

BBFP

Blue Box Failure Prevention

BC

Bearer Capability

BCD

Binary Coded Decimal

Abbreviations

BFL

Common Channel Interoffice Signaling (CCIS) Backward Failure

BLO

Blocking

BN

Billing Number

BNF

Billing Number Failure

BT

Busy Tone

BV_S

Billing Verify_System

C

CADCR

Centralized Alternate Destination Call Redirection

CAMA

Centralized Automatic Message Accounting

CAS R5

Customer Authorization System Release 5

CBK

Crankback

CCH

Connections Per Circuit Hour

CCIS

Common Channel Interoffice Signaling

Abbreviations

CCITT

International Telegraph and Telephone Consultative Committee

CCK

Continuity Check Test

CCNB

Common Channel Interoffice Signaling (CCIS) Network Blockage

CCP

Customer Call to Public Announcement System

CCPAS

Customer Call to Public Announcement System

CCR

Continuity Check Request

CCS

Common Channel Signaling

CCT

Continuity Check Transceiver

CDO

Community Dial Offices

CFD

Call Failures Detected

CFL

Call Failure

CFL

Common Channel Interoffice Signaling (CCIS) Call Failure

CGC

Circuit Group Congestion

CHI

Call Handling Instruction; Call Handling Index

Abbreviations

CIC	Controller Interface Circuit
CICR	Carrier Identifier CAMA Record
CID	Carrier Identification
CKF	Common Channel Interoffice Signaling (CCIS) Continuity Check Failure
CLF	Clear Forward
CMS	Circuit Maintenance System
CNAC	Common Channel Interoffice Signaling Network Administration Center
CNI	Common Network Interface
CNT	Called Number Trigger
COF	Confusion
COS	Class Of Service
COT	Continuity
CPA	Common Platform Adjunct
CPE	Centralized Automatic Message Accounting (CAMA) Position Error

Abbreviations

CPF	Continuity/Polarity Test Failure
CPG	Call Process Message
CPT	Centralized Automatic Message Accounting (CAMA) Position Trouble
CR	Call Register
CRA	Circuit Reservation Acknowledgement
CRB	Customer Routing Block
CRM	Circuit Reservation Message
CRO	Cancel Reroute Overflow
CRQ	Call Register Queue
CSDU	Conversant Sequence Dialing Unit
CSI	Calling Station Identity
CST	Centralized Automatic Message Accounting (CAMA) Position Seizure Time-out
CT	Call Type
CTI	Call Type Indicator

Abbreviations

CTO

Continuity Time-Out

CTR

Centralized Automatic Message Accounting (CAMA) Operator Trunk
Trouble Report

CTW

Call Type Word

CUG

Closed User Group

CVIS

Conversant Voice Information System

D

D-SDOC

DNHR Selective Dynamic Overload Control

DB

Database

DCIS6

Destination CCIS 6

DCMS

Digital Cross-Connect Multiplexing System

DDD

Direct Distance Dialing

DDSD

Delay Dial

DGTS

Digits

Abbreviations

DIF	Digital Interface
DIRE	Digit Reception
DISC	Disconnect
DISCUNKN	Disconnect Cause Unknown
DISP	Dispenser
DLC	Dynamic Load Control
DLN	Direct Link Node
DN	Destination Number
DNF	Dynamic Node Failure
DNHR	Dynamic Non-Hierarchical Routing
DNRBC	Dialed Number Rate Based Control
DNST	Destination or Dial Number Service Type
DOCTOR	Dynamic Overload Control Time-Out Release
DP	Dial Pulse

Abbreviations

DPCB

Direct Producer Call Back

DPED

Dial Pulse Early Digit

DPIS

Dial Pulse Immediate Start

DPN

Digital Path Not Provided

DSC

DNHR Selective Dynamic Overload Control Cancel

DSD

Direct Services Dialing

DSDC

Direct Services Dialing Capability

DSF

Direct Signaling Failure

DSN

Destination Switch Number

DSR

DNHR Selective Trunk Reservation

DSTR

Dynamic Selective Trunk Reservation

DTMF

Dual Tone Multifrequency

DWF

Dial Pulse Worklist Full

Abbreviations

E

EA

Emergency Announcement

EA

Equal Access

EAD

Equal Access Feature Group

EAEO

Equal Access End Office

EAID

External Announcement Identity

EAMF

Equal Access Multi-Frequency

EAR

Emergency Alternate Routing

EAS

Equal Access Signaling

EBC

Egress Busy Crankback

EBCBK

Egress Busy Crankback

EBF

Far End Busy Failure

EESP

Enhanced -Enhanced Service Provider

EIA

Equipment Ineffective Attempts

Abbreviations

ERO

Equipment Reorder

ESAC

Electronic Systems Assistance Center

ESP

Enhanced Service Provider

F

FAIL

Failure

FAXSF

FAX Store and Forward

FCBT

Force Connection to Busy Tone

FCI

Forward Call Indicator

FCNCA

Force Connection to No Circuit Announcement

FEA

Filter and Error Analyze

FEALN

Far End AT&T Local Network

FEN

Far End Network

FENN

Far End Network Number

Abbreviations

FENPA

Far End Numbering Plan Area

FGC

Feature Group C

FGD

Feature Group D

FHC

Final Handling Code

FHT

Final Handling Treatment

FOT

Forward Transfer

FS

False Start

FSA

False Start Abandon

FSO

Failure Signal

FTF

Final Trial Failure

FTST

Filter and Test

Abbreviations

G

GAP

Generic Address Parameter

GLC

Glare Control

GLR

Glare Release

GOPS

Generic Operation Parameters

GRS

Reset Circuit Group

GSC

Group Signaling Congestion

GSDN

Global Software Defined Network

GTT

Global Title Translations

H

HAW

High-and-Wet

HC

Heading Code

HICAP

High Capacity

Abbreviations

HO

A Type of Circuit (384kb/s)

HRDMP

Hourly Dumping

HTR

Hard To Reach

HWIR

High and Wet, Send Immediate Reset

HWMM

High and Wet Memory Mutilation

HWNIA

High and Wet With No Immediate Reset

HWNIR

High and Wet No Immediate Reset

I

IAD

Incomplete Address

IAID

Internal Announcement Identity

IAM

Initial Address Message

IAOFC

Ineffective Attempt Office

IC

Interexchange Carrier

Abbreviations

ICT

Incoming Trunk

ID

Identification

IDB

800 Service (INWATS) Data Base Failure

IDLE

Incoming Trunk Set to Idle

IDNG

Idle-No Guard

IDS

800 Service (INWATS) Direct Signaling Failure

IDTS

Immediate Dial Tone Start

IE

Information Element

IFF

International Failure in Foreign Country

IKF

Integrity Check Failure

IMA

Ineffective Machine Attempt

INA

Ineffective Network Attempt

INC

International Carrier, International No-Circuit, International Network
Congestion

INFO

Information

Abbreviations

INTL

International

INW

800 Service (INWATS) Out-of-Band Screening Failure

INWATS

Inward Wide Area Telephone Service (800 Service)

IPM

Interrupts Per Minute

IRO

International Reorder

IS

Incoming Seizure

ISC

International Switching Center

ISDN

Integrated Services Digital Network

ISUP

Integrated Services Digital Network User Part

ISUP

Integrated Services User Part

ISUP

ISDN User Part

IT

Intertoll

ITC

Incoming Trunk Class

ITOLL

Intertoll

Abbreviations

ITS

International Transport Service

ITST

Immediate Test

ITUP

International Telephone User Part

IUC

International Outgoing Call

IUR

Incoming Unreasonable Signal

IVC

International Vacant Code

IVCA

International Vacant Code Announcement

IWK

800 Service (INWATS) Check

K

KA

Kill With Announcement

KP

Key Pulse

KT

Keying Trunk

KW

Kill With Wink

Abbreviations

L

LAM

Leave a Message

LCC

Local Carrier Connect

LCC

Local Exchange Carrier Connection

LCI

Local Call Intercept

LEC

Local Exchange Carrier

LKO

Lock-Out

LOS

Line Out-of-Service

LNP

Local Number Portability

LRN

Location Routing Number

LSP

Local Service Provider

LSP-LOCAL

Local Service Provider-Local

Abbreviations

M

MA

Machine Attempt

MAB

Miscellaneous Abandon

MAC

Machine Administration Center

MAIN

Main Call Processing

MAS

Mass Announcement System

MAUD

Message Associated User Data

MB

Maintenance Busy

MCA

Misrouted Centralized Automatic Message Accounting (CAMA)

MCC

Master Control Console

MCT

Multiple Carrier Treatment

MEAS

Measurement

MF

Multifrequency

MFEQ

Multifrequency Equipment

Abbreviations

MLSS

Machine Load and Service Summary

MNM

Manual Network Management

MOC

Maintenance Operations Center

MPR

Machine Performance Report

MRA

Mass Recorded Announcement

MRTT

Multiple Routing Treatment Translator

MSC

Miscellaneous Call Irregularity

MSR

Machine Service Report

MTP

Message Transfer Part

MUM

Multiple Unit Message

MUVF

Mixed Use Voice/FAX

Abbreviations

N

NC

No Circuit

NCA

No Circuit Available

NCAN

No Circuit Announcement

NCAT

None Call Associated Temporary Signaling Connection

NCD

Network Call Denial

NCIT

No Circuit Intertoll

NCP

Network Control Point

NCS

Common Channel Interoffice Signaling (CCIS) National Congestion

NCTC

No Circuit Toll Connect

NDB

Number Services Data Block

NM

Network Management

NMC

Network Management Center

NMPR

Network Management Printer

Abbreviations

NNX

Central Office Code

NOCS

Network Operation Center System

NPA

Numbering Plan Area

NRA

Network Remote Access

NRNDB

Network Routing and Numbering Database

NRO

Nonequipment Reorder

NSC

National Switching Congestion

NSCX

Network Services Complex

NSD

No Start Dial

NSF

Network Specific Facilities

NSN

National Switch Number

NSPMP

Network Switching Performance Maintenance Plan

NSR

Number Services Routing

NTC

National Trunk Congestion

Abbreviations

NWC

No Wink From Carrier

O

OAS

Originating AT&T Switch

OCC

Other Carrier Connecting

ODA

Office Data Assembler

OFCI

Optional Forward Call Indicator

OFL

Overflow

OGT

Outgoing Trunk

OLI

Originating Line Identifier

OLI

Originating Line Identity

ONAC

Operations Network Administration Center

ONI

Operator Number Identification

OOA

Out of Area

Abbreviations

OOS

Out-Of-Service

OP

Outpulsing

OQA

Originating Multifrequency Queue Abandon

OSO

Originating Screening Office

OSPS

Operator Service Position System

OTS

Originating Toll Switch

OUT

Outgoing

P

PA

Position Attached

PAS

Public Announcement System

PAW

Post Address Wink

PBX

Private Branch Exchange

PCC

Per Call Control

Abbreviations

PCC	Pseudo Country Code
PCP	Positive Call Processing
PCPCCP	Capability Control Procedure
PDA	Partial Dial Abandon
PDT	Partial Dial Time-out
PER	Pulsing Error
PHF	Path Hunt Failure
PLU	Positive Look-Up
POTS	Plain Old Telephone Service
PSC	Processor Signal Congestion
PSE	Pulsing Error
PST	Permanent Signal Time-out
PTS	Proceed To Send
PVL	Pre-assigned Value List

Abbreviations

Q

Q

Queue

QPE

Q.931 Protocol Error

R

RCDG

Recording

RCDS

Records

RCVR

Receiver

RDB

Routing Data Block

REL

Release

REPT

Report

RES

Resume

RLC

Release Complete

RLG

Release Guard

Abbreviations

ROA

Reorder Announcement

RQA

Receiver Queue Abandon

RR

Route and Record

RSB

Reset Band

RSC

Reset Circuit

RST

Reset

RTE

Route Command

RTNR

Real-Time Network Routing

RTORT

Real-Time Overload Retry Treatment

S

SAB

Sub-Account Billing

SACDS

Spontaneous Access to Call Delivery Service

SADC

Special Access Data Channel

Abbreviations

SAFER

Switch Access Flexible Egress Routing

SAM

Subsequent Address Message

SAN

Sub-Account Number

SAP

Service Activation Parameter

SC

Service Code

SCAR

Stable Call Accumulating Register

SCCP

Signaling Connection Control Part

SCGA

Software Carrier Group Alarm

SCP

Service Control Point

SCS

Service Circuit System

SD

Segmentation Directory

SDN

Software Defined Network

SDU

Sequence Dialing Unit

SDVG

Switched Digital Video Gateway

Abbreviations

SEC	Switching Equipment Congestion
SF	Single Frequency
SGT	Common Channel Interoffice Signaling (CCIS) Signaling Trouble
SIAQ	Send Information Analyzed Query
SICONFIT	SINT Confused Incoming Trunk
SICONFOT	SINT Confused Outgoing Trunk
SIF	Signaling Information Failure
SII	Service Identity Index
SILC	Selective Incoming Load Control
SINT	System Integrity
SMCC	Switching Management Control Center
SMO	Segmentation Mode of Operation
SMS	Service Maintenance System
SNA	Service Not Active

Abbreviations

SNF	Signaling Network Failure
SOCC	SMS Originating Code Controls
SP	Service Processor
SPC	Signaling Point Code
SSB	Subscriber Station Busy
SSD	Second Start Dial
SSN	Subsystem Number
SSP	Service Switching Point
SST	Signaling Service Type
SSU	Subsequent Signaling Unit
ST	Start
STO	Signaling Time-Out
STP	Signal Transfer Point
SUSP	Suspended
SVICT	State Vector Incoming Trunk

Abbreviations

SVOGT

Outgoing State Vector

SZ

Seizure

T

TAS

Terminating AT&T Switch

TC

Toll Connect

TCA

Test Control Area

TCAP

Transaction Capabilities Application Part

TCC

Technical Control Center

TCE

Test Call Error

TERA

Trunk Error Analysis

TG

Translations Guide

TLIN

Test Line

TMAD

Trunk Maintenance Administration

Abbreviations

TMAINT

Trunk Maintenance

TNS

Transit Network Selection

TO

Type of Origin

TOC

Trunk Operations Center

TOLLMFD

Toll Operator Trunk—MF With Delay Dial

TOP

Task Oriented Practices

TOPT

Trunk Operational Test

TOS

Type Of Service

TOT

Type Of Trunk

TPT

Test Progress Tone

TQA

Multifrequency Transmitter Queue Abandon

TRKSTAT

Trunk Status

TRN

Trunk Rating Number

TSG

Trunk Subgroup

Abbreviations

TSI

Time Slot Interchange

TSN

Trunk Scanner Number

TSPC

Two-Stage Pulsing Call

TSPS

Traffic Service Position System

TT

Talking Trunk

TTO

Terminating Toll Office

TTS

Terminating Toll Switch

TTSI

Transmit Time Slot Interchange

TUP

Telephone User Part

TWOSTGDR

Two-stage Digit Reception

U

UBC

Unsupported Bearer Capability

UCA

Unauthorized Centralized Automatic Message Accounting (CAMA)

Abbreviations

UDS

Unit Data Service Message

UGTT

Universal Global Title Translation

ULB

Unequipped Label

UNN

Unallocated Number

URS

Unreasonable Signal

USDS

Universal Subscriber Data Structure

USI

User Service Information

UUI

User-to-User Information

UXS

Unexpected Stop

V

VAC

Vacant Code

VACANAL

Vacant Code Analysis

VAS

Via AT&T Switch

Abbreviations

VC

Vacant Code

VCNTANAL

Vacant Code Analysis Program

VMA

Vacant Mass Announcement

VNC

Via Node Congestion

VNN

Vacant National Number

VPA

Voice Path Assurance

VPN

Virtual Private Network

VSS

Voice Storage System

VSSID

Voice Storage System Identity

VTs

Via Toll Switch

W

WAC2

Wait for Second Acknowledgement

WACK

Wait for Acknowledgement

Abbreviations

WAT

Waiting Answer Time-out

WSNO

Wink Start No Out Pulse

WTSG

Worst Trunk Subgroup

X

XCVR

Transceiver

XST

Expected Stop Time-out

Abbreviations

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4E27 Generic**

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Dictionaries

3

General

1.01 This chapter contains information related to final handling codes. The information is arranged in two ways to provide ready access to final handling code information. Descriptions of the final handling code related information are also provided. This chapter also contains descriptions of incoming and outgoing state vectors, trunk register state codes, CCIS signaling message states, and final treatments for all signaling types.

Final Handling Codes

- 2.01** Final handling code information is in tabular form and consists of the following:
- (a) A list of final handling codes arranged in final handling code number order (Table 3-A)
 - (b) A list of final handling codes arranged in alphabetical order according to trap name (Table 3-B)
 - (c) A list of possible call dispositions for domestic incoming and outgoing calls are located in the "Domestic Call Final Handling Treatments" section.

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As stated in Chapter 2, final handling code descriptions are not provided for all final handling codes. Table 3-A and Table 3-B include final handling codes for which there are no corresponding descriptions in Chapter 2. The following paragraphs describe the final handling code-related information provided in Table 3-A, Table 3-B, and the Domestic Call Final Handling Treatments list.

Trap Name

2.02 The second column in Table 3-A lists the trap name as it appears in a trap output and as it is input at an input/output (I/O) channel to build a trap. Refer to Practice 234-103-018, *Call-Irregularity Raw Data Trap*, to operate the trap.

2.03 The Trap Message DSDCEXC field contains the exception code. The codes and associated descriptions can be found in Table 3-F of this chapter.

Trunk Error Analysis

2.04 The third column in Table 3-A lists the error analysis state for the final handling code. If the event does not receive error analysis, this space is blank. The following are the three types of analysis that Message trunks can receive:

FEA — Filter and Error Analyze
FTST — Filter and Test
ITST — Immediate Test.

See Practice 234-103-016, *Trunk Error Analysis* for a complete explanation of the trunk error analysis (TERA) program.

In/Out Failure

2.05 The fourth column in Table 3-A contains the incoming/outgoing failure flag. This flag is used for various purposes in the trunk maintenance system, including what trunk to trap on in the case of a TSG trap with a Call Register that contains both an incoming and an outgoing trunk.

Signaling Type and Treatment

2.06 The four signal type and treatment columns in Table 3-A show the treatment that is given to the incoming trunk when a call fails. The signaling type and treatment codes listed in these columns are described in the Domestic Call Final Handling Treatments list. If a space in these columns is empty, it means that type of failure cannot happen on that type of trunk. (Some of these faults can happen on CCIS trunks. The CCIS trunk would then get the equivalent MF treatment).

2.07 The Domestic Call Final Handling Treatments list contains all possible call dispositions for both incoming and outgoing trunks on MF, DTMF, DP, and CCIS calls. These treatments equate to the signaling type and treatment column in Table 3-A.

Vacant Code Analysis

2.08 Call-irregularity events reported to the vacant code analysis (VACANAL) program are noted in the comment column of Table 3-A.

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Incoming and Outgoing State Vectors

3.01 Tables 3-C and 3-D describe incoming and outgoing state vectors, respectively. The state vector tables list all the possible states of a call register. These states equate to the steps that the call goes through during setup. When a trap report is made, the incoming state vectors and outgoing state vectors are reported. When no call register is attached, the trunk register state codes are output instead.

Trunk Register State Codes

4.01 The trunk register state codes reflect the possible states in which a trunk can be placed either manually, automatically, or by use in a call. Each time the maintenance state of a trunk is requested, the trunk register state is included. Table 3-E lists all trunk register state codes. Note that the out-of-service- ignore state, state 113 on Table 3-E can only occur when a trunk has been manually disabled or automatically disabled due to a peripheral equipment failure.

Message Types

5.01 The Message Types section of this chapter lists Q.931 message types and ISUP message types. The three-letter message type indicates the type of message received when the final handling code occurred.

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Numerical Listing of Domestic Final Handling Codes

The following is Table 3-A.

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Notes

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Table 3-A. Numerical Listing of Domestic Final Handling Codes

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
0	N/A		In			HWNIR	DISC UNKN	Invalid Final Handling Code (FHC).
2	ANM		In	NCA	NTC			NM Dynamic Overload Control (DOC).
3	ANM		In	NCA	NTC			NM Selective Trunk Reservation (STR).
4	MNM		In	NCA	NTC			Cancel to.
5	MNM		In	NCA	NTC			Cancel from.
6	ANM		In	NCA	NTC			Network management (NM) cancel due to dynamic overload control for time-out relief (DOCTOR).
7	DSF		In			EMT	EMT	No translations exist in Global Title Translations (GTT) database for Numbering Plan Area (NPA) in signaling connection control part (SCCP) header.
8	MNM		In	NCA	NTC			NM call gap control blocked call.
9	MNM		In	NCA	NTC			Reroute in effect with allow in-chain option Set — No idled capacity on via TSG
10	MNM		In	NCA	NTC			No idle trunk at via office to offer traffic — TCM = First link out-of-chain
11	AIF		In					CAMA ANI Failure (Information digit = No digits coming) caused by local office trouble
12	AOF		In					CAMA ANI information digit time-out, MF receiver to TMAINT
13	ANF		In					CAMA ANI digit collection time-out, MF receiver to TMAINT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
14	PER	FEA	In					CAMA ANI invalid digit MF receiver to TMAINT
15	ANM		In					Call failed due to NM SILC control
16	UCA		In	VCA				CAMA unauthorized for operator number identification; reported to VCNTANAL
17	CPT		Out	ROA				CAMA position disconnect
18	MAB		In	Idle				CAMA abandon before or during position disconnect
19	MAB		In	Idle				CAMA abandon, operator keyed in seven digits
20	RQA		In	Idle				CAMA abandon while on DP-ANI MF receiver queue
21	VAC		In	VCA				CAMA invalid called area code or office code
22	MSC		In	NCA				CAMA no second receiver DP ANI, connect failure
23	MSC		In	ROA				CAMA fail to connect second MF receiver, DP ANI
24	MAB		In	Idle				CAMA ANI abandon, connect to MF receiver
25	MCA		In	VCA				CAMA misdirected ANI; reported to VCNTANAL
26	UCA		In	VCA				CAMA unauthorized ANI; reported to VCNTANAL
27	MSC		In	NCA				CAMA operator queue full
28	CPT		In	ROA				CAMA operator keyed in trouble number
30	MAB		In	Idle				CAMA ONI abandon before getting CAMA operator

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
31	CST	FEA	Out	ROA				CAMA operator failed to acknowledge seizure
32	MAB		In	Idle				CAMA abandon on CAMA operator queue
33	MCA		In	VCA				CAMA misdirected ONI; Reported to VCNTANAL
34	AIF	FEA	In					CAMA completed call AOF — TMAINT
35	ANF	FEA	In					CAMA completed call ANF — TMAINT
36	MSC		In	NCA				CAMA ONI fail to connect IGT — Talking trunk
37	CST	FEA	Out	ROA				Time-out — No TSPS operator position attached received
38	PER		In					CAMA ONI digit error, implicate receiver so that when call is finally disposed of a different receiver will be hunted
39	PER		In					CAMA ONI illegal digit, implicate receiver so that when call is finally disposed of, a different receiver will be hunted
40	MSC		In	ROA				CAMA ANI failure on CICR call
41	MSC		In	T				Multiparty line CICR call not allowed
42	VAC		In	VCA	VNN	VNN	EMT	Digit translations blocked call due to LATA-state screening (ISDN Services)

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
43	VAC		In	VCA	VNN	VNN	EMT	Digit translations failed during LATA-state screening (not enough digits to get outgoing LATA state index)
44	VAC		In	VCA	VNN	VNN	EMT	Domestic digit translations found too many manually assigned subsequent digit index call-type words for this code grouping report to VCNTANAL
45	VAC		In	VCA	VNN	VNN	EMT	Domestic digit translations found manually assigned subsequent digit index which is out of range (index size exceeds size of code grouping block) report to VCNTANAL
46	PER	FEA	In	VCA		ADI		Not enough digits for further translations; reported to VCNTANAL
47	PER	FEA	In	VCA		ADI		Too many digits for further translations; reported to VCNTANAL
48	VAC		In	VCA	VNN	VNN	EMT	Digit translations blocked call due to route selection index screening (RSI routing required but not found)
49	VAC		In	VCA	VNN	VNN	EMT	Domestic digit translations found invalid type of call-type word (SVOGT indicates where in DOM translations); reported to VCNTANAL

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
50	MRA		In					Illegal digits encountered, kill call
57	MSC		Out					CCIS outgoing trunk in special outgoing setup state; received reset after ADC received
59	MSC		Out					CCIS outgoing trunk in special outgoing setup state; received reset band signal after ADC received
60	MSC		In	VCA			VNN	Go/No-Go screening block; reported to VCNTANAL
61	MSC		In	VCA		VNN		INWATS non-routable code. Digit translation found INWATS call type and not Originating Screening Office OSO or database returned 800 code. Reported to VCNTANAL.
62	VAC		In	VCA		VNN		Vacant code digit translation. Reported to VCNTANAL.
63	NCA		In	NCA		NTC		No circuit found by trunk hunt. Reported to VCNTANAL
64	MSC							Transit call has arrived at the 4E (ISC) in an invalid domain
65	NCA	NO	In	BT	SSB	SSB	DISC	No circuit found by single B customer trunk hunt.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
66	VAC		In	VCA	VNN	VNN	EMT	Domestic digit translations detected invalid subsequent digit index sequence. Automatic SDX translate more digits) found after manual SDX. Reported to VCNTANAL.
67	MSC		In					Optional parameters UUI in ISUP message were dropped due to length limitations.
68	MSC		In					Optional parameter ATP in ISUP message was dropped due to length restrictions.
69	QPE		In	HW	HW	RLS	DISC	Call state mismatch on Q.931 incoming NKN trunk in post setup state.
70	QPE	NO	In	HW	HW	HW	DISC	Call state mismatch on Q.931 incoming NKN
71	QPE		Out	HW	PDT	RSC	HWIR	Call state mismatch on Q.931 outgoing Trunk in post setup state.
72	QPE	NO	Out	ROA	CFL	CFL	EMT	Call state mismatch on Q.931 outgoing trunk in setup state.
73	QPE		In					Invalid Facility message format received while call was in the active state. Contained both a Network specific Facilities IE and a Codeset 6 Facility IE.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
75	DWF		In	ROA				Main dispenser DP worklist full.
76	PER	FEA	In					Main dispenser MF digit error.
77	MSC	NO	In	HW	HW	HWIR	HWIR	MF origination queue is overloaded.
78	MSC		In	Idle				Main dispenser low priority abandon.
79	MSC		In	Idle				Main dispenser DP abandon.
80	MSC	FEA	In					Abandon while on MF origination queue.
81	PER	FEA	In	ROA				DP two state changes prior to completion of early digit timing on immediate start trunk.
82	FSA	FEA	In	Idle				Early abandon. DP state change prior to completion of buffer timing on immediate start or delay-dial/ start-dial trunk.
83	MSC		In	ROA				Failure to get E&M incoming trunk on Base Engineered Timing List (BETL) for second start dial timing.
84	VAC		In	IVC	VNN	VNN	EMT	International digit translations found invalid type of call-type word (SVOGT indicates where [in International translations] it was found). Reported to VCNTANAL.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
85	VAC		In	IVC	VNN	VNN	EMT	International digit translations found too many manually assigned subsequent digit index call-type words for this code grouping. Reported to VCNTANAL.
86	VAC		In	IVC	VNN	VNN	EMT	International digit translations found manually assigned Subsequent Digit Index which is out of range (index size exceeds size of code grouping block). Reported to VCNTANAL.
87	VAC		In	IVC	VNN	VNN	EMT	International digit translations blocked call due to Route Selection Index screening (RSI routing required but not found).
88	VAC		In	IVC	VNN	VNN	EMT	International digit translations detected invalid subsequent digit index sequence (automatic SDX (XLATE more digits) found after manual SDX); reported to VCNTANAL
90	PST	FEA	In					MF permanent signal time-out
91	PDT	FEA	In					MF partial dial time-out
92	MSC		In	ROA				DP report not loaded; digit buffer congested
93	PER	FEA	In	ROA				DP too many pulses
94	MSC		In	ROA		NSC		Network fail ICT-C-OGT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
95	FTF	FEA	Out	ROA		CFL		Second delay-dial/ start-dial or wink start time-out failure
96	FTF		Out	ROA		CFL		Second glare where second trunk has far-end control
97	MSC		In					Second MF receiver not found
98	MSC		In					Second MF receiver not connected
99	CPF		Out	ROA		CFL		Main task scanned one-way OGT; it was off-hook; continuity polarity failure
100	FTF		Out	ROA		CFL		Final trial failure of scanned one-way OGT continuity polarity test failure
101	FTF		Out	ROA		CFL		Second stop-go time-out, from final
102	MSC		Out	ROA		NSC		Second MF transmitter not found after network fail
103	MSC		Out	ROA		NSC		Second MF transmitter network connect failure delay dial or wink start
104	MSC		In					Delay dial or wink start time-out, TMAINT
106	MSC		In	VCA				PBX direct connect customer -dialed illegal 3-digit prefix code

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
107	QPE	NO	In					Not reported to final; time-out occurred while waiting for Q.931 clearing message
108	MSC	NO	In	HW	HW NIA	HWNIR	HW NIR	Q.931 disconnect message returned while trunk is in clearing state
110	MSC		In	ROA	NSC			Second failure to reserve ICT — MF OGT Path
111	MSC		Out	ROA	NSC			MF transmitter queue full
112	FTF		Out	ROA	CFL			Second glare OGT seizure failure
113	MSC		In	ROA	NSC			Second failure to reserve ICT — DP OGT Path
114	XST	FEA	Out					First or second stop-go time-out, TMAInT entry
115	TCE		Out	ROA	CFL			Unexpected stop and MF transmitter failure; treat as MF transmitter error only
116	TCE		Out					MF transmitter failure report, direct from maintenance
117	DWF		Out	ROA	NSC			DP out worklist full
118	UXS	FEA	Out	ROA	CFL			DP unexpected stop or continuity failure
119	UXS	FEA	Out	ROA	CFL			MF unexpected stop
120	DSF		In					An attempt was made to record and route the call when an SDN call encountered a particular failure. Call not final handled, irregularity report only.
121	FTF		Out	ROA	CFL			MF second unexpected stop received DP permanent signal or partial dial

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
122	MNM	FEA	Out	NCA	NTC	CGC	EMT	NM ECOS route cancel control canceled call at OAS or TAS.
123	MSC		In	T				Time-out, no call register, no queue
124	PDT		In	WNK				DP partial dial time-out on DP call register queue
125	MSC		In	ROA				No room in DP call register queue
126	MSC		In	ROA				Eighth digit received on DP call register queue
127	FTF		Out	ROA	CFL			DP second unexpected stop or continuity failure
128	FTF		Out	NCA	NSC			Second MF transmitter failure
129	MNM		Out	NCA	NTC	CGC	EMT	NM ECOS area cancel control at OAS or TAS
130	GLC		Out					First or second glare 4ESS switch controls TMAINT
131	GLR		Out					First or second glare, far-end controls, TMAINT
132	MSC		In	BT	SSB	SSB	EMT	EAMFCLRN Finished sending post address wink in order to connect announcement for redirection work

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
133	GLR		Out					Backdown glare due to directed scan, OGT off-hook, any trial, TMAINT
134	VAC		In	ROA	CFL	CFL	RC BC	BBC incoming slave set-up_ found illegal data associated with master trunk
135	PHF		In	ROA	CFL	CFL	RC UNKN	Failed to reserve network path for either master or slave trunk
136	MSC		In	ROA	CFL	CFL	RC CHID USE	BBC incoming slave was found busy when handling incoming setup actions
137	NCA		In	NCA	NTC	CGC	EMT	Exhausted routing options for end-to-end class of service call at TAS
138	MSC		In	ROA	CFL	CFL	EMT	Common platform adjunct (CPA) destination number was found in the destination number trigger table, but an invalid application type was encountered
140	NCA		In	ROA	CFL	CFL	EMT	CPA trunk hunt failed to find an OGT to the adjunct
141	MSC		In	ROA	CFL	CFL	EMT	Network management returned reroute on to or from hierarchical trunk subgroup controls. Reroute is not applicable to adjunct trunks

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
142	MSC		In	ROA	CFL	CFL	EMT	Transmit time slot interchange (TTSI) encountered in a common platform adjunct (CPA) routing data block (RDB)
143	NCA		Out	NCA	NTC	CGC	EMT	Exhausted routing options for end-to-end class of service call at OAS
144	NCA		In	NCA	NTC	CGC	EMT	A call incoming to the 4ESS switch on end-to-end class of service trunk was blocked due to end-to-end class of service trunk reservation
145	NCA		In	NCA	NTC	CGC	EMT	Invalid class of service or routing data for end-to-end class of service call
146	TCE		In					ATME incoming test — Network connection failure
147	TCE		In					ATME incoming test — Failure to assign a responder
148	TCE		In					ATME incoming test — Failure to go on BETL timing
149	PDA		In					Expanded FH code second stage LP abandon
150	VAC	NO	In	VCA	VNN	VNN	EMT	Handling equal access incoming call, received at least 3-digit ANI and 7-digit address, calling party NPA not in NPA table
151	MSC		In	VCA	ADI			Digit count out of range; reported to VCNTANAL

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
152	PER	FEA	In	VCA	ADI			Dire unacceptable digit count; reported to VCNTANAL
153	PER	FEA	In		COF			Illegal CCIS digit present in subsequent signaling unit; reported to VCNTANAL
154	PER	FEA	In					Dire received less than two MF digits reported to VCNTANAL
155	PDT	FEA	In	T				DP partial dial time-out, with call register linked,
156	MSC		In			EMT	EMT	Call irregularity reported due to ICT far-end network (FEN) — Call type call screening
157	MSC		In	T		EMT		Blue box fraud persisting on a call— 5-minute time-out.
158	MSC		In	T	T	EMT		Blue box fraud detected on a call; enough MF digits received.
159	MSC		In	ROA	ROA			Dire-SP reported with no digits
160	PER	FEA	In		ROA			Dire illegal MF digit
161	MSC		In				VCA	PBX direct connect customer-dialed illegal 3-digit MF prefix
162	CCP		In					Digit reception program looping through translations for all digits from multiple cut-thrus and/or 800 Service (INWATS); reported to VCNTANAL

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
163	BNF		In	VCA	VNN	VNN	EMT	Seven-digit, domestic, equal access (switched access) MF incoming SDN call did not receive at least NPA in ANI
164	VAC		In	VCA	VNN	VNN	EMT	Seven-digit, domestic, equal access (switched access) MF incoming SDN call, NPA from ANI not recognized as home or served NPA
165	MSC		In			BLO		Nonmaintenance call on lock-out trunk
166	BFL		Out					Blocking received on call in setup stage; call is retried
167	SGT		Out	ROA	CFL	ROA		Signaling link congestion; cancel initial address messages; CCIS call failure received sent on ICT
168	EBF		Out	BT	SSB	SSB	DIS	Subscriber busy received on outgoing CCIS OGT
171	ADF		Out	VCA	VNN			OGT vacant national number, received; reported to VCNTANAL
172	NCS		Out	ROA	NSC			OGT national switching congestion received
173	NCS		Out	NCA	NTC			OGT national trunk congestion received
174	CFL		Out	ROA	CFL			OGT call failure received
175	ADF		Out	VCA	ADI			OGT address incomplete received; reported to VCNTANAL

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
176	SGT	ITST	Out	ROA	CFL			OGT message refusal received
177	SGT		Out	ROA	CFL			OGT time-out
178	MAB		In		IDLE			ICT reset band, nonstable
179	MAB		In		RLG			ICT clear forward received
180	MAB		In		RLG			Reset received
181	CKF		Out					CCIS voice path assurance time-out, OGT and transceiver to maintenance
182	SGT		In		CFL			ICT time-out
183	SGT		In		CFL			Call failure received on idle trunk; no call affected
184	FTF		In	ROA	NSC			Network failure, ICT-OGT connect
185	SGT		In		CFL			Bad message on one trunk; no call affected
186	SGT		In			IDLE		No Initial address message following continuity; probably previous call
187	SGT		In			RLG		No initial address message following clear forward
188	SGT		In			HHW		No response to reset, put HAW
189	SGT		In			COF		Different initial address message received on ICT
190	SGT		In		PDT			Backward/forward signal not received, trunk register only case
191	FTF		Out	ROA	CFL			Final trial glare, to final
192	FTF		Out	ROA	CFL			Second try failure

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
193	MSC		In		CFL			Glare on incoming test line call
194	MSC		In		VNN			Certain routing categories (12-15) restricted to intra-network usages
195	SGT		Out	ROA	CFL			OGT no signal link
196	SGT		In		HHW			ICT no signal link
198	MSC		In		NSC			CCIS no call register available
199	SGT		In		COF			Heading code not equal to subsequent signaling unit, terminal hardware
200	MSC		Out	ROA	RST			CCIS OGT received reset while in waiting-for-answer state
201	MSC		In	ROA	NSC			No CCIS transceiver available
202	FTF		Out	ROA	NSC			Fail to connect CCIS transceiver, second trial
203	SGT		Out	ROA	CFL			No link available when sending initial address message
204	FTF		Out	ROA		CFL		Second try voice path assurance failure
205	BFL		Out					Reset received on nonstable call; call is retried
206	BFL		Out					Confusion received, TMAINT only
207	GLR		Out					Glare detected, 4ESS switch backs down, first or second trial, TMAINT only
208	GLC		Out					Glare detected; 4ESS switch controls first or second trial, TMAINT only
209	BFL		Out					Release guard received on nonstable OGT; will retry

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
210	FTF		In		EA/SPCL			Reenter final to apply emergency announcement
211	MSC		Out			Idle		Crankback received on CCIS OGT, TMAINT test call
212	FTF		In	ROA	CFL			Continuity time-out waiting to apply emergency announcement
213	FTF		In		RLG			Abandon before emergency announcement applied
214	MSC		In		RLG			ICT clear forward received while on call register queue
215	SGT		Out					Unequipped label response from CCIS, first or second trial, trunk removed from service directly by CCIS
216	FTF		Out	ROA	CFL			Second trial unequipped label — from final
218	MSC		In					Unit or carrier failed, CGAP found service circuit for BBFP busy to TR
219	BFL		Out					TMAINT, CCIS call with clear-back received before answer
220	MSC		In					TMAINT call not initiated; no call register
221	MSC		In					TMAINT, outgoing trunk not idle
222	MSC		In	Idle				TMAINT, incoming trunk abandoned before digit translation; no ineffective machine attempt work to do
224	PER		Out	T				Trunk maintenance operational test; invalid digit count

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
225	VAC		Out	T				TMAINT operational test; vacant code digits
226	PER		Out	T				TMAINT operational test; invalid digits, test line
227	PER		Out	T				TMAINT operational test; OGT scanner number not found in routing data block
228	CPF	FEA	Out					Seizure on one-way OGT continuity test failure
229	TCE		In					MF transmitter error report on idle transmitter
230	TCE	FTST	Out					Test circuit scan point report in error
231	TCE	FTST	Out					Test circuit involved in failing routine test
232	TCE		In					Digit error report on idle receiver
233	TCE	ITST	Out					TMAINT first routine operational test failure on E&M trunk reported by trunk operational test program
235	FSA	FEA	In					Expanded non-MF abandon with no digits
236	PDA	FEA	In					Expanded non-MF abandon with some digits present
237	FSA	FEA	In					Expanded MF abandon with no digits
238	PDA	FEA	In					Expanded MF abandon with some digits

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
240	CCP		In	ROA	CFL	CFL	EMT	Customer call to public announcement — CCPAS — Call involves use of service assist — A800, SDN, 1800, ETC.; reached announcement time-out before clear assist
241	TQA		In					Expanded MF transmitter queue abandon
242	NSD	FEA	Out					Expanded no-start dial on delay-dial/start-dial trunk
243	IKF	FTST	Out					Expanded integrity check failure on delay-dial/start-dial trunk
244	NSD	FEA	Out					Expanded no-start dial on wink start trunk
245	NSD	FTST	Out					Expanded no-start dial on one-way outgoing wink start trunk; off-hook when timed out
246	AIF	FEA	In					Expanded AIF which happened on same call as current CAMA operator failure
247	ANF	FEA	In					Expanded ANI failure which happened on same call as current CAMA operator failure
248	PST	FEA	In	T				Expanded DP permanent signal time-out; No call register
249	PDT	FEA	In	T				Expanded DP partial dial time-out, no call register
250	MAB	FEA	In	HW	EMT	EMT	EMT	Expanded miscellaneous abandon before outpulsing completed
251	CCP		In	BT	FC_BT	FC_BT	EMT	Customer's call to MAS/PAS, path hunt failure(s), all attempt(s) failed

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
252	CCP		In	NCA	NTC	CGC	EMT	No vacant MAS/PAS announcement available
253	CCP		In	NCA	NCA	NCA	EMT	Customer call to public announcement system (CCPAS) failure 2. Barge-in source trunk not connected to dedicated TSI-SPC
258	MRA		In					Treatment when DP abandon is received
259	MNM		In	ROA		CFL		PAS cut-thru call received NM failure return after announcement service
260	VAC		In	VCA		VNN		Illegal call type for PAS cut-thru service reported to VCNTANAL
284	VAC		In					Invalid access using GSDV private numbering plan option
287	INW		In	ROA	NSC			Service (INWATS) no auxiliary call register
288	IDS		In	ROA	CFL			800 Service (INWATS) signaling link congestion due to processor signal congestion or terminal threshold exceeded
289	IDB		In	ROA	CFL			Time-out while waiting for response from database
290	IDB		In	VCA	VNN			800 Service (INWATS) database failure reply, nonexistent Number Plan Area (NPA); Reported to VCNTANAL
291	IDB		In	VCA	VNN			800 Service (INWATS) Database failure reply, vacant central office code (NNX); Reported to VCNTANAL

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
292	IDB		In	VCA	VNN			800 Service (INWATS) Database failure reply, unassigned central office code (NNX) (CCIS routing error); Reported to VCNTANAL
293	INW		In	OOB	OOB			800 Service (INWATS) Database failure reply, nonpurchased Number Plan Area (NPA); Reported to VCNTANAL
294	IDB		In	VCA	VNN			800 Service (INWATS) Database failure reply, vacant line number; Reported to VCNTANAL
295	IDB		In	ROA	NSC			800 Service (INWATS) Database failure reply; Database overload
296	MSC		In	BT				800 Service (INWATS) Database failure reply; All lines busy
297	ANM		In	NCA	NTC	CGC	EMT	800 Service (INWATS), call killed by code control
298	ANM		In	NCA	NTC			800 Service (INWATS), call killed by direct signaling control
299	IDS		In	ROA	NSC			800 Service (INWATS) direct signaling failure, no translation data
300	IDS		In	ROA	NSC			800 Service (INWATS) direct signaling failure, CCIS network congestion
301	IDS		In	ROA	NSC			800 Service (INWATS) direct signaling failure, CCIS network blockage

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
302	IDS		In	ROA	CFL			800 Service (INWATS) calls blocked by signaling link failure
303	DSF		In	IVC	VNN	EMT	EMT	Government emergency telecommunication services — bad digits received with DTMF receiver
304	DSF		In	IVC	VNN	EMT	EMT	Government emergency telecommunication services — too few digits received with DTMF receiver
305	DSF		In	NCA	NTC	CGC	EMT	Government emergency telecommunication services — fail open off
310	ANM		In	BT	BT	SSB	EMT	Call blocked by 10-digit INWATS call control
312	PER	FEA	In	ROA	NSC	SEC	EMT	TWO-Stage MF 2-out-of-6 tone digit error
313	MSC		In	HW	HHW			Unit or carrier failed; outgoing trunk confused
314	SGT		In	IDNG	Idle			Unit or carrier failed; incoming trunk confused
315	MSC		In	HW	HHW			Stable call with confused trunk registers following phase
316	MSC		In					Originating outbound call arriving at ISC on domestic satellite trunk
317	MSC		In	IDNG	Idle			Unit or carrier failed, ICT busy to trunk register
318	MSC		In	IDNG	Idle			Unit or carrier failed, ICT busy to call register
319	MSC		Out	T	NSC			Unit or carrier failed, OGT busy to trunk register

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
320	MSC		Out	T	NSC			Unit or carrier failed, OGT busy to call register
321	MSC		In	T	NSC			Unit or carrier failed SCV CKT busy to call register
322	MSC		In					No trunk found for assigned automatic distribution group
328	VAC		In	VCA	VNN	VNN	EMT	Routine error reported after trunk hunt and routing data indicates delete more digits than received. Call was CRB routed.
329	VAC		In	VCA	VNN	VNN	EMT	Routine error reported after trunk hunt and routing data indicates delete more digits than received. Call was RTNR, DNHR, or RDB routed.
330	CCP		In	SNA	EMT	EMT	EMT	Called CCPAS announcement not available. Announcement handling disposition is to connect caller to new SCS service not active final handling announcement
331	CCP		In	VMA	EMT	EMT	EMT	Called CCPAS announcement not available. Announcement handling disposition is to connect caller to new SCS vacant MAS final handling announcement
332	MSC		In	HW	HHW	DISC_UNKN		Received invalid data in a Q.931 setup message from a common platform adjunct (CPA) related to the B1 (4ESS OGT to adjunct) trunk

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
333	MSC		In					Unexpected RLC message received relating to a busy HO circuit for which a REL message has not been sent
334	MSC		In					Unexpected RLC message received relating to a busy HO circuit for which a REL message has not been sent
335	MSC		In					Unexpected RLC message received relating to a busy HO circuit for which a REL message has not been sent
363	MSC		Out	HW	HHW	HW_IR	HW_IR	Remote blocking with immediate release (hardware fault) received on outgoing trunk
364	MSC		In	Idle	Idle	IDM	IDM	Remote blocking with immediate release (hardware fault) received on incoming trunk
402	DSF	No	In	VCA	VNN	VNN	EMT	Illegal attempt to use proprietary SND/P3 feature
404	NCA		Out	NCA	NTC	CGC	EMT	SDN off-net not allowed and trunk hunt found off-net TSG as overflow case
416	NCA		Out	ROA	CFL	CFL	EMT	Reach did not find a valid routine treatment at the HAS
417	NCA		Out	ROA	CFL	CFL	EMT	Reach did not find a valid routine treatment at the OAS

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
424	DSF							Vivtim switch did not receive response from NCP. This is a call irregularity report
431	IUR		In					An ANC signal received on an idle No. 6 trunk
432	IUR		In					An ANN signal received on an idle No. 6 trunk
433	IUR		In					An CLF signal received on an idle No. 6 trunk
434	IUR		In					An COT signal received on an idle No. 6 trunk
435	IUR		In					An RLG signal received on an idle No. 6 trunk
436	IUR		In					An CB1 signal received on an idle No. 6 trunk
437	IUR		In					An RA1 signal received on an idle No. 6 trunk
438	IUR		In					An CB2 signal received on an idle No. 6 trunk
439	IUR		In					An RA2 signal received on an idle No. 6 trunk
440	IUR		In					An CB3 signal received on an idle No. 6 trunk
441	IUR		In					An RA3 signal received on an idle No. 6 trunk
442	IUR		In					An ADC signal received on an idle No. 6 trunk
443	IUR		In					An ADN signal received on an idle No. 6 trunk
444	IUR		In					An ADX signal received on an idle No. 6 trunk

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
445	IUR		In					An AFC signal received on an idle No. 6 trunk
446	IUR		In					An AFN signal received on an idle No. 6 trunk
447	IUR		In					An AFX signal received on an idle No. 6 trunk
448	IUR		In					An ADI signal received on an idle No. 6 trunk
449	IUR		In					An COF signal received on an idle No. 6 trunk
450	IUR		In					An LOS signal received on an idle No. 6 trunk
451	IUR		In					An MRF signal received on an idle No. 6 trunk
452	IUR		In					An SEC signal received on an idle No. 6 trunk
453	IUR		In					An SSB signal received on an idle No. 6 trunk
454	IUR		In					An SST signal received on an idle No. 6 trunk
455	IUR		In					An VNN signal received on an idle No. 6 trunk
456	IUR		In					An CFL signal received on an idle No. 6 trunk
457	IUR		In					An CGC signal received on an idle No. 6 trunk
458	IUR		In					An NNC signal received on an idle No. 6 trunk
459	MSC		In					CR dedicated word time-out — COT 10 SEC time-out
460	PHF		In					Fail to connect loop to an incoming No. 6 trunk
461	MAB		In					A CLF received on an incoming No. 6 trunk after IAM

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
462	STO		In					Time-out waiting for release guard
463	MSC		In					Reject IAM — from TMAD
464	MSC		In					REQ final handling to release the CR from initial final call
465	URS		In					CFL received after answer
466	STO		In					Time-out waiting for CLF
467	FTF		In					Failure to reserve ICT — OGT connection
468	FTF		Out					Total signaling failure on 1st choice and failed rehunt (Final)
469	SGT		Out					Total signaling failure on chosen OGT (Rehunt)
470	FSO		Out					Fail signal OGT BLO — Not final trial
471	FSO		Out					Fail signal OGT BLO — Final trial failure
472	CKF		Out					Continuity check test failure — not final trial
473	CKF		Out					Continuity check test failure on final trial
474	PHF		Out					OGT_C_XCUR connect fail — Not final trial
475	PHF		Out					OGT_C_XCVR connect fail — Final trial
476	FSO		Out					Fail signal OGT COF — Not final trial
477	FSO		Out					Fail signal OGT COF — Final trial failure
478	GLR		Out					Glare occurred on No. 6 OGT — Not final trial

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
479	GLR		Out					Glare occurred on No. 6 OGT on final trial
480	FSO		Out					Fail signal OGT MRF — Not final trial
481	FSO		Out					Fail signal OGT MRF — Final trial failure
482	FSO		Out					Fail signal OGT RLG — Not final trial
483	FSO		Out					Fail signal OGT RLG — Final trial failure
484	FSO		Out					Fail signals OGT ADI
485	FSO		Out					Fail signals OGT CFL
486	FSO		Out					Fail signals OGT CGC
487	FSO		Out					Fail signals OGT LOS
488	FSO		Out					Fail signals OGT NNC
489	FSO		Out					Fail signals OGT SEC
490	FSO		Out					Fail signals OGT SSB
491	FSO		Out					Fail signals OGT SST
492	FSO		Out					Fail signals OGT VNN
493	FSO		Out					XCVR hunt fail
494	STO		Out					ADDR complete T/O
495	SGT		Out					Fail to send outgoing message
497	PER		In					INV digit count — not enough — IAM not sent
498	FSO		Out					Time-out waiting for answer
499	FSO		Out					CFL received on OGT while waiting for answer
500	FSO		Out					CGC received on OGT while waiting for answer

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
501	FSO		Out					NNC RECD on OGT while waiting for answer
502	MSC		In	VCA		SUN		Data call received on a Network Interconnect (NI) boundary with a User Service Information (USI) parameter that indicates 384 or 1536 kb/s restricted.
503	FSO		Out					Time-out waiting CLF from a clear back state
504	MSC		In					CR queue entry overflow
505	MSC		In					Clear forward RECD while call queued for CR
506	MSC		In					Call failure MSG while call queued for CR
507	MSC		In					Idle an ICT memory only — for directed phase, all trunk states
508	MSC		In					Idle an OGT memory only — for directed phase, all trunk states
509	MSC		In					Place OGT HAW for directed phase zero start case
515	DSF		In	NCA	NTC			Failed to receive DS message from TSPS containing real calling station identity on T/C call
516	QPE	No	In					Received illegal digit in Q.931 setup message
517	VAC	No	In					Invalid call type for Q.931 ICT
518	MSC	No	Out	VCA	VNN	VNN	EMT	Assist or direct producer callback routed on INTL trunk (in domestic RDD) during special outgoing setup
519	MSC		In	NCA	NTC	CGC	EMT	REPODISP — Real-time overload retry (rehunt and OGT setup) cancellation

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
521	VAC	No	Out	VCA	VNN	VNN	EMT	Call to INC traversed satellite; REPODISP killed call
522	MSC	No	In	VCA	VNN	VNN	EMT	Two-stage call incoming to ISC traversed satellite; REPODISP killed call
523	MSC		In	VCA	VNN			4ESS switch received signal to send second start dial to PBX ICT-not legal
524	PHF		Out	ROA	CFL	CFL	EMT	Path hunt failure while trying to reserve network path between ICT and Q.931 OGT
525	QPE		Out					Time-out after sending setup message on Q.931 OGT (First try)
526	QPE		Out	ROA	CFL	CFL	EMT	Time-out after sending setup message on Q.931 OGT — Final try
527	QPE		Out	ROA	CFL	CFL	EMT	Time-out waiting for a message after call proceeding message has been received
528	QPE		Out					Mandatory information element was missing in facility message
531	ANM		In					DSDC call blocked due to overload conditions at NCP
533	ANM		In					SDN calls blocked due to NOCS-initiated controls
534	ANM		In					DSDC calls blocked due to NOCS-initiated controls
535	ANM		In					SDN calls blocked due to direct signaling message failures

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
536	ANM		In					DSDC calls blocked due to direct signaling message failures
537	MSC		Out	ROA	CFL	CFL	EMT	Tried to send message on Q.931 OGT but CNI ring is down; final call
538	MSC		Out	ROA	CFL	CFL	EMT	Tried to send message on Q.931 OGT but output buffer is full; final call
539	MSC		Out					Tried to send Q.931 message on OGT but CNI ring was dead; call not finaled
540	MSC		Out					Tried to send Q.931 message on OGT but output buffer was full; call not finaled
541	GLR		Out					Setup message was received on Q.931 OGT before it was seized
542	QPE		Out					Invalid message was received on Q.931 OGT before it was seized
543	QPE		Out					Invalid message received on Q.931 OGT while in setup state
544	QPE		Out					Invalid clearing message received while busy to CR; rehunt new OGT
545	QPE		Out					Invalid restart ACK message received on Q.931 OGT while busy to CR
546	QPE		Out					Invalid message received on Q.931 OGT while waiting for answer

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
547	QPE		Out					Invalid message received on Q.931 OGT while in talking state
548	QPE		Out	HW	HW	RLS	DIS UNKN	Disconnect message received while trying to set up call on Q.931 OGT
549	QPE		Out	ROA	CFL	CFL	EMT	Disconnect received in setup state with cause indicating reorder
551	PER		In					DP digit error — invalid DP pulse length
552	PER		In					DP digit error — invalid interdigit time
553	VAC		In	VCA	VNN	EMT	EMT	A disconnect message was received in the setup state on a Q.931 outgoing trunk with an indicated cause of user busy
554	NCA		In	ROA	CFL	CFL	EMT	Reach did not find a valid routing treatment at the terminating AT&T Switch (TAS)
555	NCA		In	ROA	CFL	CFL	EMT	The adjunct is off
556	MSC		In	ROA	CFL	CFL	EMT	CR occupancy exceeded
560	EBF		Out	BT	SSB	SSB	DISC UB	Disconnect received in setup state with cause that indicates user busy
561	VAC		Out	VCA	VNN	VNN	EMT	Disconnect received in setup state with cause which indicates vacant code

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
562	QPE		Out	ROA	CFL	CFL	EMT	Disconnect received in setup state with cause indicating PBX network congestion or another anomaly
563	QPE		Out	ROA	CFL	CFL	EMT	Release message received while trying to set up call on Q.931
564	QPE		Out	ROA	CFL	CFL	EMT	Release complete received while trying to set up call on Q.931 OGT
565	DSF		In		CFL			Timed out waiting for DSDC commands from network control point
566	DSF		In		CFL			DSDC direct signaling message could not be sent due to link failure or congestion
567	DSF		In		CFL			DSDC direct signaling message blocked in network and returned to 4ESS switch
568	PER		In		CFL			Calling station identity could not be collected for DSDC call
569	DSF		In		VNN			Routing number specified in DSDC command from NCP is invalid
570	DSF		In		CFL			DSDC command to terminate call received from NCP
572 573	DSF DSF		In In					SOM or EOM MSG time-out DSDDSCTL non-fatal exception report
574	MSC		In	T	CFL			DSDC queueing on busy limit reached

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
575	DSF		In	ROA	CFL			Bureaucracy block needed for DSDC call is unavailable
576	QPE	No	In					Q.931 disconnect message received while trunk is in idle state
577	QPE	No	In		RLG	RLC	REL COM	Q.931 release message received while trunk is in idle state
578	QPE	No	In					Q.931 restart message received while trunk is in idle state
579	QPE	No	In	RLG	RLC	REL COM	RLG	Q.931 release message received while trunk is in incoming stable state
580	QPE	No	Out	HW	HW	RLS	DISC UNKN	Q.931 release message received while trunk is in outgoing stable state
581	QPE	No	In					Q.931 release complete received while trunk is in incoming stable state
582	QPE	No	Out	HW	HW	RLS	DISC UNKN	Q.931 release complete received while trunk is in outgoing stable state
583	MSC	No	In					Q.931 disconnect message received while trunk is in clearing state
584	MSC	No	In		RLG	RLC	REL COM	Q.931 disconnect message received while incoming trunk is in SINT confused (SICONFIT) state
585	MSC	No	In		RLG	RLC	REL COM	Q.931 release message received while incoming trunk is in SINT confused (SICONFIT) state

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
586	MSC	No	In	IDNG	Idle	IDM	IDM	Q.931 release complete message received while incoming trunk is in SINT confused (SICONFIT) state
587	MSC		In	IDNG	Idle	IDM	IDM	Q.931 restart message received while incoming trunk is in SINT confused (SICONFIT) state
588	MSC	No	In	IDNG	Idle	IDM	IDM	Q.931 restart acknowledge message received while incoming trunk is in SINT confused (SICONFIT) state
589	MSC	No	In	HW	HW	RLS	DISC UNKN	Q.931 disconnect message received while outgoing trunk is in SINT confused (SICONFOT) state
590	MSC	No	In	HW	HW	RLS	DISC UNKN	Q.931 release message received while outgoing trunk is in SINT confused (SICONFOT) state
591	MSC	No	In	HW	HW	RLS	DISC UNKN	Q.931 release complete message received while outgoing trunk is in SINT confused (SICONFOT) state
592	MSC	No	In	HW	HW	RLS	DISC UNKN	Q.931 restart message received while outgoing trunk is in SINT confused (SICONFOT) state
593	MSC	No	In	HW	HW	RLS	DISC UNKN	Q.931 restart acknowledge message received while outgoing trunk is in SINT confused (SICONFOT) state

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
594	QPE	No	In		CLFI	RLS	IDM	Mandatory information element missing in Q.931 disconnect message
595	QPE	No	Out	HW	HW	RLS	DIS UNKN	Mandatory information element missing in Q.931 disconnect message
596	QPE		In	VCA	ADI	ADI	EMT	The Billing Number (BN) Information Element (IE) was missing from a Q.931 Setup Message for a service that requires the BN IE.
597	MSC		In	ROA	CFL	CFL	RC BC	B-Channel call not allowed on a Q.931 incoming trunk
598	MSC		In				RC CALLBAR	Setup message received but incoming signaling characteristics indicated a one-way out trunk
599	QPE		In	ROA	CFL	CFL	RC_IIEC	An invalid TNS parameter was received on a Q.931 ICT at an access
600	QPE		Out	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no adjunct logical address
601	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 0
602	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 1

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
603	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 2
604	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 3
605	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 4
606	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 5
607	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 6
608	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 7
609	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 8
610	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 9
611	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 10

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
612	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 11
613	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no Adjunct Logical Address 12
614	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd Timeout after sending a setup message on a CPA outgoing trunk with no adjunct logical address 13
615	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no adjunct logical address 14
616	QPE		In	ROA	CFL	CFL	RC_IIEC	2nd timeout after sending a setup message on a CPA outgoing trunk with no adjunct logical address 15
617	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (called number restriction), and the call is blocked before answer supervision is received.
618	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (fraud restricted), and the call is blocked before answer supervision is received.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
619	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (credit restricted), and the call is blocked before answer supervision is received.
620	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (nonpayment-calling party), and the call is blocked before answer supervision is received.
621	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (nonpayment-called party), and the call is blocked before answer supervision is received.
622	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (nonpayment-other party), and the call is blocked before answer supervision is received.
623	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (called number restrictions), and the call is blocked after answer supervision is received.
624	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (fraud restricted), and the call is blocked after answer supervision is received.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
625	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (credit restricted), and the call is blocked after answer supervision is received.
626	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (nonpayment-calling party), and the call is blocked after answer supervision is received.
627	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (nonpayment-called party), and the call is blocked after answer supervision is received.
628	NCD		In	NCD	EMT	EMT	EMT	NAI/NCP response indicates deny the call (nonpayment-other party), and the call is blocked after answer supervision is received.
629	DSF		In	ROA	CFL	CFL	EMT	This data call handled in SD mode of operation has reached a situation for which SD default handling would normally be invoked. Call is final handled.
630	MNM		In	ROA	CFL	CFL	EMT	This call has encountered a pre-SD query control for which the action indicated (kill call) calls are in the present mode of operation, and SMO may be killed by these controls.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
631	MNM	MSC	In	T	EMT	EMT	EMT	This call has encountered a 10 digit dialed number rate based control (DNRBC), for which the action indicated (kill call), calls segmentation directory (SD), mode of operation (SMO), may be killed by these controls.
638	EBF		Out	NCA	VNN	Pass_Cause	DISC_UB	A Q.931 disconnect message was received while waiting for answer with a cause indicating busy tone
639	VAC		Out	VCA	VNN	Pass_Cause	Pass_Cause	A Q.931 disconnect message was received while waiting for answer with a cause indicating busy tone
640	QPE		Out	ROA	CFL	Pass_Cause	Pass_Cause	A Q.931 disconnect message was received while waiting for answer with a cause indicating reorder announcement
642	PST		In	ROA	CFL	CFL	EMT	DP ICT time-out on digit error timing
643	MSC		In	BT	SSB	EMT	DISC_UB	When SCS final handling got the bad answer ID report, the call was finaled

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
644	NCA		Out	NCA	NTC	CGC	EMT	When the SCS CCPAS call got the bad announcement set report the call was finaled
645	CCP		Out	NCA	NTC	CGC	EMT	When the SCS CCPAS call got the bad announcement ID report the call was finaled
646	CCP		In	BT	FC_BT	FC_BT	EMT	When new trunk hunt returned fail for an SCS CCPAS call, the call was finaled
647	NCA		Out	BT	SSB	EMT	DISC_UB	When SCS final handling got the bad announcement set report the call was finaled
648	PHF		Out	BT	FC_BT	FC_BT	EMT	When network_connect returned fail for SCS CCPAS call, the call was finaled
649	NCA		Out	NCA	NTC	CGC	EMT	When the CCPAS announcement showed the MAS announcement was not available, the call was finaled
650	MSC		In	VCA	VNN	EMT	EMT	When handling an incoming call from a LSP incoming trunk (for Local Nodal Phase 2), the call was determined to be requesting operator assistance - not valid.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
651	MSC		In	VCA		SUN		When handling an incoming call from a LSP incoming trunk (for Local Nodal Phase 2), the call was determined to be a data call - not valid.
652	MSC		In					A TNS parameter received from a LSP trunk for a Local Nodal call that is terminating to a Local Nodal customer.
655	MSC		Out					The Master LRN that is used to populate the JIP in calls from local nodal customers is not provisioned. This is a call irregularity reported only once for a call duration.
670	MSC		In	IDNG	DLE	IDM	IDM	The Codeset 6 facility IE in setup message has an improperly formatted or invalid request
671	QPE		In				RC MIEM	Setup message received but mandatory bearer capability information element missing on Q.931 ICT
672	MSC		In	ROA	CFL	CFL	RC UNKN	Q.931 CR queue was found full when trying to queue for CR on Q.931 ICT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
673	MSC		In		BLO	BLO	SERV	Received setup message — non-test call — on maintenance busy Q.931 ICT
674	QPE		In			RC IIEC		Bearer capability invalid for data call on Q.931 ICT
675	QPE		In			RC IIEC		One of bearer capability information elements field in setup message is invalid for Q.931 ICT.
676	QPE		In			RC MIEM		At end of message but mandatory destination address information element not found on Q.931 ICT
677	QPE		In					Non-subscribed network specific facility found on Q.931 ICT
678	QPE		In			RC IDEST		Destination address type invalid on Q.931 ICT
679	PER		In			RC IDEST		Invalid digit found in destination address on Q.931 ICT
680	QPE		In			RC IDV		Invalid digit found in destination address on Q.931 ICT
681	QPE		In			MNC	RC	Invalid message received in idle state on Q.931 ICT
682	QPE	No	In					Invalid message received while in CR queue state on Q.931 ICT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
683	QPE		In		CLFI	RLS	REL	Disconnect message received while in CR queue state on Q.931 ICT
684	QPE		In				RC MNC	Release message received in CR queue state on Q.931 ICT
685	MSC		In	IDNG	Idle	IDM	IDM	Release Complete message received while in CR queue state on Q.931 ICT
686	MSC		In	IDNG	Idle	IDM	IDM	Single Circuit Restart message received in CR queue state on Q.931 ICT
687	QPE		In					Invalid message was received while in incoming busy to CR state for Q.931 ICT
688	QPE		In		CLF	RLS	REL	Disconnect message received in incoming busy to CR state on Q.931 ICT
689	QPE		In			RC MNC		Release message received while in incoming busy to CR state on Q.931 ICT
690	QPE		In	IDNG	Idle	IDM	IDM	Release Complete message was received while in incoming busy to CR state on Q.931 ICT
691	QPE		In	IDNG	Idle	IDM	IDM	Single Circuit Restart message received in incoming busy to CR state on Q.931 ICT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
692	QPE		In					Invalid message received while in incoming busy to TR state on Q.931 ICT
693	QPE		In				RC MNC	Invalid message received on Q.931 ICT while in trunk connected to dedicated TSI state
694	QPE		In					Invalid message received on Q.931 ICT while in customer call to PAS state
695	MSC		In	HW	HW NIA	HW NIR	HW HW	Tried to send message for Q.931 ICT but CNI buffer is full
696	MSC		In	HW	HW NIA	HW NIR	HW NIR	Tried to send message for Q.931 ICT but CNI ring is down
697	MSC		In					Tried to send message for Q.931 ICT but CNI buffer is full; call not finaled
698	MSC		In					Tried to send message for Q.931 ICT but CNI ring is down; call not finaled

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
699	QPE		In				RC_IIEC	Received a setup message with a parameterized NSF IE with the SDVG value in the parameterized field but did not also receive a calling party IE with a 10 digit Calling Party Number (CPN) or the TSG subscription bit for this feature was not set to Y.
700	QPE		In	HW	EMT	EMT	RC_MNC_CALLST	Invalid message is received on a Q.931 ICT while in the ICTCSFPP state and connected to a final announcement
701	QPE		In	HW	EMT	EMT	EMT	Invalid message is received on a Q.931 ICT while in the ICTCSFPP state and connected to a CCPAS announcement
702	QPE	MSC	In				RC MIEM	Mandatory Q.931 codeset 6 IES were not found in a setup message which requires codeset 6.
703	QPE	MSC	In				RC MIEM	A mandatory user entered code IE was missing from a Q.931 setup message.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
704	MSC		In	Idle	Idle	IDM	IDM	Setup message includes an invalid NSF test call service
710	MSC		In	VCA	VNN	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Failure release while waiting for an answer in a domestic call
711	MSC		In	VCA	VNN	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Failure release while waiting for an answer in a domestic call
712	MSC		In	T	CFL	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Failure release while waiting for an answer in a domestic call
713	MSC		In	BT	SSB	Pass_Cause	DISC-UB	ISUPOGT handler received a Backward Failure release while waiting for an answer in a domestic call

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
714	MSC		In	NCA	NTC	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Failure release while waiting for an answer in a domestic call
715	MSC		In	ROA	CFL	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Failure release while waiting for an answer in a domestic call
716	MSC		In	ROA	CFL	CFL	EMT	ISUPOGT handler received a Backward Failure release while waiting for an answer in a domestic call
727	BNF		In			CFL		Translation of the OLI found a Local NODAL (SDN or MEGACOM) or a Local NODAL Phase 5 (SDN or MEGACOM) OLI value and have received either a primary mode SAP or an APP with one or more of the following GOPS - ACCESS ID, TRN, FENPA, or ACCESS DOMAIN ID. The requirement is to final handle such a call when received on an LCC trunk with FEALN set.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
728	BNF		In			CFL		ISUPICT received in the IAM from an LCC ICT with FEALN set. A primary mode SAP and an APP using ACCESS DOMAIN ID, in its GOP.
729	DSF		In	VCA	VNN	VNN	EMT	Intelligent Network Call Processing encountered either a revert to PMO request from the SD or an error while communicating with an SD on a call with a non-routeable number.
737	MSC		Out			EMT	EMT	Call not final handled-timeout after sending an FAC message on a Q.931 OGT.
738	MSC		Out			EMT	EMT	4ESS switch has received an invalid ANCR request from the ATP node due to improper formatting, or the node has failed and sent an ANCR fail indication to the switch.
739	NCA		Out			EMT	EMT	Trunk hunt failed to seize an ANCR provisioned trunk to the adjunct.
740	PHF		In			EMT	EMT	Network path hunt failure while trying to reserve a path between AN incoming trunk and the P1 SCS port.
741	MSC		Out			EMT	EMT	Failed to send an FAC message from the 1A/B to the ATP node (ring down or buffer full).

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
742	QPE		Out			EMT	EMT	Received a Release Complete or Disconnect message with an improperly formatted Codeset 6 facility IE with operation value = invoke ATP on a Q.931 OGT (CPA) B1 while busy to a CR.
743	PHF		Out			EMT	EMT	ATP/ANCR partition operation failed.
744	PHF		Out			EMT	EMT	The ATP/ANCR redirection operation failed.
746	MSC		Out			EMT	EMT	Timed out in WAIT_ATP state while waiting for a response from the adjunct.
747	MSC		In		CLF	RLC	RELCOM	A DISC message was received from the adjunct while in a WAIT_ATP (waiting for response from the adjunct)
748	MSC		In				RC_MNC_CS	While waiting for a response from the adjunct for an ANCR port of redirect request, a REL message was received

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
749	MSC		In	IDNG	HW_IDLE	IDM	IDM	An REL COM message was received while waiting for a response from the adjunct for a partition or redirect request.
750	MSC		In	Idle	Idle	IDM	IDM	A rest message was received while waiting for a positive response from the adjunct.
752	MSC		In			EMT	EMT	An ATP-ANCR merge operation failed.
753	QPE		Out			EMT	EMT	4ESS switch connection to ATP node requested to be final handled.
754	MSC		Out			EMT	EMT	4ESS switch connection to ATP node requested to be final handled.
755	MSC		Out	ROA	CFL	CFL	EMT	Release Complete received in setup state with cause that indicates reorder
756	EBF		Out	BT	SSB	SSB	DISC UB	Release Complete received in setup state with cause which indicates user busy
757	VAC		Out	VCA	VNN	VNN	EMT	Release Complete received in setup state with cause that indicates vacant code
758	MSC		Out	ROA	CFL	CFL	EMT	Release Complete received in setup state with cause which indicates PBX NTWK congestion or another anomaly

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
759	QPE		Out	ROA	PDT	RSC	EMT	Restart message received while trying to set up call on Q.931 OGT
760	WAT		Out	ROA	CFL	Pass_Cause	Pass_Cause	Q.931 OGT timed-out while waiting for answer on data call.
761	FTF		Out	ROA	CFL	CFL	EMT	Final trial failure on BBC call for Q.931 OGT
762	MSC		Out	ROA	CFL	CFL	EMT	Have reached limit on number of Q.931 OGT to be attempted on a given call
763	MSC		Out					Not finaled; Setup message returned on Q.931 OGT
764	BFL		Out					Not final handled; service message received on Q.931 OGT in setup state, report call irregularity
765	BFL		Out	ROA	CFL	CFL	EMT	Service message received on Q.931 OGT in setup state, final trial failure
766	QPE		Out	HW	HHW	RLS	DISC UNKN	Disconnect message with invalid CS6 facility IE and operation equals "REDIRECT" or "BILLING" received while trying to setup a call

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
767	QPE		In					Not final handled; more than 64 octets of MAUD was received in message from PBX
768	QPE		In					Not final handled; invalid network specific facility received in setup message
769	MSC		In	HW	HW NIA	HW NIR	HW NIR	Not final handled; invalid network specific facility received in setup message
770	ADF		Out	IVC	ADI			CCIS or ISUP OGT INTL call RCVD ADI reported to VCNTANAL
771	CFL		Out	IFF	CFL			CCIS or ISUP OGT INTL call RCVD CFL
772	NCS		Out	IFF	NSC			CCIS or ISUP OGT INTL call RCVD NSC
773	NCS		Out	INC	NTC			CCIS or ISUP OGT INTL call RCVD NTC
774	EBF		Out	BT	SSB	SSB	DIS	CCIS or ISUP OGT INTL call RCVD SSB
775	ADF		Out	IVC	VNN			CCIS or ISUP OGT INTL call RCVD VNN reported to VCNTANAL
776	MSC		Out	IRO	EMT		CCIS	OGT INTL call RCVD RST — waiting for ANS
777	MSC		In	ROA	NSC	SEC	EMT	No CRS available for ISUP continuity check request
778	MSC		In	HW	HW	HW	HWIR	Test call timed out while waiting for release message

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
779	PER		In	VCA	VNN	VNN	EMT	A Q.931 incoming SDN DSD call, delete Digit 1 also Store 10, received with the first digit not equal to a one
780	BNF		In					Only KP+ST received on EAS call; FEN data says kill call
781	BNF		In					Only KP+ST received on EAS call; FEN data says route and record
782	BNF		In					Only KP+ST received on EAS international outbound call; FEN data says kill call
783	BNF		In					Only KP+ST received on EAS international outbound call; FEN data says route and record
784	VAC		In	VCA	VNN	VNN	EMT	Illegal call type for redirected number
785	BNF		In					INFO digits translator says kill EAS call
786	BNF		In					INFO digits translator says ANI bad; FEN data says kill EAS incoming call
787	BNF		In					INFO digits translator says ANI bad; FEN data SYS route and record EAS call
788	MAB	FEA	In					Incoming EAS call abandoned

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
789	PER	FEA	In					EAS international call received MF digit report while sending second start dial wink
790	PER	FEA	In					EAS international call received mutilated MF digit while sending second start-dial wink
791	MSC		In					ANI received on EAS incoming call not required — complete call
792	WAT	No	In	T		Out		ANCICPEC timed-out call waiting for MRD ANS
793	PER		In					EAS call illegally addressed to code-line number
794	PDT		In					EAS address not completely received before address time-out on EAS call
795	MAB		In		RLG	RLC	REL COM	Reset MSG received on ISUP call that was on queue for CR
796	MAB		In		RLG	RLC	REL COM	Reset MSG, received on ISUP call that was busy to CR
797	WAT		In	ROA	CFL	CFL	EMT	While call in wait for answer state and still busy to CR, the wait-for-answer timer expired
798	NCD		In	NCD	EMT	EMT	EMT	Network call denial/NCP indicates this EAS or CAMA call is delinquent call; call is blocked after answer supervision received
799	NCD		In	NCD	EMT	EMT	EMT	Network call denial/NCP indicates this EAS or CAMA call is delinquent call; call is blocked before answer supervision received
800	VAC		In	VCA	VNN	EMT	EMT	Translation failure for CPA terminating routing number

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
820	VAC		In	VCA				PBX illegal call type received on DP or MF ICT; reported to VCNTANAL
821	VAC		In	VCA				Illegal call type received on DP or MF ICT; reported to VCNTANAL
822	VAC		In	VCA				Illegal call type received on CAMA ICT. Reported to VCNTANAL.
823	VAC		In	VCA				Illegal call type for number returned from Direct Service Dialing (DSD) or Software Defined Network (SDN) database Network Control Point (NCP). Reported to VCNTANAL.
824	VAC		In		VNN			Illegal call type for Common Channel Interoffice Signaling (CCIS) ICT. Reported to VCNTANAL.
825	VAC	No	In	VCA	VNN	VNN	EMT	Illegal call type for International ICT at ISC.
826	VAC		In	VCA	VNN			Illegal call type for direct connect ICT when retranslating digits in POTS domain. Reported to VCNTANAL.
827	VAC		In	VCA	VNN			Illegal call type for INWATS call. Reported to VCNTANAL.
828	VAC		In	VCA	VNN			Illegal call type for second stage digits on two-stage call. Reported to VCNTANAL.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
829	VAC		In	VCA	VNN	VNN	EMT	Translations returned IRA subtype of D3RDOM.
830	RQA		In	Idle				Abandon received on IDTS queue for DTMF receiver.
831	MSC		In	ROA				Network path hunt failure when trying to connect DTMF receiver to IDTS ICT.
832	FSA	FEA	In	Idle				False start abandon on IDTS ICT.
833	PDA	FEA	In	Idle				Partial dial abandon on IDTS ICT while on queue for Call Register.
834	PDA	FEA	In	Idle				Partial dial abandon on IDTS ICT while while collecting digits in Trunk Register.
835	PDA	FEA	In	Idle				Partial dial abandon on IDTS ICT while while collecting digits in Call Register.
836	ADF	No	Out	IVC	ADI	ADI	EMT	CCIS or ISUP OGT International call received ADI.
837	CFL	No	Out	ROA	CFL	CFL	EMT	CCIS or ISUP OGT call International received CFL.
838	NCS	No	Out	ROA	CFL	CFL	EMT	CCIS or ISUP OGT call International received NSC.
839	NCS	No	Out	INC	NTC	CGC	EMT	CCIS or ISUP OGT call International received NTC.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
840	MSC	No	Out	BT	SSB	SSB	DISC UB	CCIS or ISUP OGT call International received SSB.
841	ADF	No	Out	IVC	VNN	VNN	EMT	CCIS or ISUP OGT International call received VNN.
845	VAC		Out	VCA	VNN	VNN	EMT	CCIS or ISUP OGT in handling an 0/1X CHI found conflicting prefix digits in the RDB.
846	VAC		Out	VCA	VNN	VNN	EMT	CCIS or ISUP OGT in handling an 0/1X CHI found problem in trying to use International out routing category.
850	MAB	In	In					Abandon on DTMF wink start ICT while on DTMF wink start origination queue for Call Register and DTMF receiver.
851	MSC		In					Network path hunt failure while trying to connect DTMF receiver to DTMF wink start ICT.
852	FSA	FEA	In					Abandon received on DTMF wink start ICT while sending wink.
853	PER	FEA	In					DTMF digit report received for DTMF wink start ICT before wink was sent.
854	NSD	FEA	In					Abandon received on DTMF wink start ICT is no-start dial from previous glare condition.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
855	FSA	FEA	In					False start abandon on DTMF wink start ICT.
856	PDA	FEA	In					Partial dial abandon on DTMF wink start ICT.
858	SGT		Out					A Continuity Check message could not be sent by the outgoing trunk handler because the CNI ring was down.
859	SGT		Out					A Continuity Check message could not be sent by the outgoing trunk handler because there were no buffers available.
860	SGT		Out					A call was retried when an IAM was returned to the outgoing trunk handler.
861	GLC		Out					A glare condition was reached on a trunk continuity check test.
862	SGT		Out					Not final handled. UCIC message was received on ISUP OGT. Will retry.
863	SGT		Out					Not final handled—ISUP OGT handler could not send out IAM due to CNI problem. Will retry.
864	URS		Out					Not final handled—ISUP OGT handler received Out-of-Order or Irregular message. Will retry.
865	GLR		Out					Not final handled. ISUP OGT handler received IAM on OGT glare. Near end backs down and retries.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
866	SGT		Out	ROA	NSC	SEC	EMT	ISUP OGT handler could not send IAM because no buffers left.
867	MSC		Out	ROA	NSC	SEC	EMT	ISUP OGT handler failed to find transceiver.
868	MSC		Out	ROA	ROA	NSC	ROA	ISUP OGT handler failed to reserve network path on final attempt.
869	MSC		Out	ROA	NSC	SEC	EMT	ISUP OGT handler failed to connect transceiver to OGT on final try.
870	CKF		Out	ROA	CFL	CFL	EMT	ISUP OGT VPA test timed-out.
871	MSC		In	HW	HW	HW	HW	Busy to CR.
872	CKF		Out					Not finaled handled. ISUP OGT first trial VPA failure. Normal call or test call.
873	MSC		In	HW	HW NIA	HW NIR	HW NIR	ADC message was returned on ISUP call in stable state.
874	MSC		In					Not final handled. Unequipped Circuit Identification Code message received on ISUP trunk that sent reset. Waiting for RLC.
875	SGT		Out	ROA	CFL	CFL	EMT	ISUP OGT handler could not send COT message because all message buffers are in use.
876	MSC		Out	ROA	CFL	CFL	EMT	ISUP OGT handler could not send COT message because CNI ring is down.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
877	MSC		Out	ROA	CFL	CFL	EMT	CFL ISUP OGT handler did not receive ADC before its timer expired.
878	URS		Out	ROA	CFL	CFL	EMT	ISUP OGT handler received unreasonable message during setup.
879	BFL		Out					Not final handled—ISUP OGT handler received blocking message during setup. Will retry.
880	NCA		In	NCA	NTC			Rehunt not allowed on subsequent legs for meet-me teleconferencing call.
881	MSC		Out	ROA	CFL			Subsequent call awaiting out complete. Not allowed when hunting for NSC for meet-me teleconferencing call.
882	MSC		Out	ROA	NSC	SEC	EMT	ISUP OGT handler had IAM returned to it and decided not to retry.
883	GLC		Out					Not final handled. ISUP OGT handler received IAM on trunk that is busy to CR—glare. Near end controls and far end should back down.
884	GLR		Out	ROA	CFL	CFL	EMT	ISUP OGT handler received IAM on OGT—glare. Far end 4ESS switch has control.
885	SGT		Out	ROA	CFL	CFL	EMT	COT message returned to OGT handler for call on second try.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
886	MSC		Out	ROA	CFL	CFL	EMT	CCR message returned to ISUP OGT handler.
887	BFL		Out	ROA	CFL	CFL	EMT	Reset circuit message received while ISUP OGT is in special setup state.
888	BFL		Out	ROA	CFL	CFL	EMT	ISUP OGT handler received blocking message during setup on final try.
889	SGT		Out					Not final handled—CIT message.
890	BFL		Out	ROA	CFL			Group reset message received while ISUP OGT is in special setup state.
891	CKF		Out	ROA	CFL			ISUP OGT doing CCR failed to receive LPA Message LPA.
892	VAC		In	OOB	EMT			Direct connect or switched access OutWATS customer attempted call to non-purchased NPA. Reported to VCNTANAL.
894	VAC		In	OOB	EMT			OutWATS customer attempted non-subscribed intra-state call. Reported to VCNTANAL.
895	MSC		In					EAS OutWATS call for which all SCARs were busy.
896	VAC		In					EAS ANI failure on EAS OutWATS call.
897	PER	No	In	VCA	ADI	ADI	EMT	Illegal digit found in ISUP IAM.
898	VAC	No	In	VCA	VNN	VNN	EMT	Invalid call type for CCS7 ICT.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
899	GLR		Out					ISUP OGT handler received an IAM—glare. CCR test stopped and IAM processed.
900	MSC		In	ROA	CFL			Call denied due to incoming FEN-call type call denial screening. Reported to VCNTANAL.
901	NSD		Out					4ESS switch office doing AT function signaling to INC. Waiting post addressing acknowledgment wink. Failed to receive wink in prescribed time.
902	MSC		Out					AT office signaling to INC—CCIST OGT only. Received invalid signal while waiting Post-Addressing Acknowledgment Wink.
903	NSD		Out					AT office signaling to INC. Received steady off-hook while waiting Post-addressing Acknowledgment Wink.
904	MSC		In	NWC	EMT			AT office timed out after 4 seconds of completing outpulsing to Inter-exchange Carrier.
905	MSC		Out	ROA	CFL	CFL	EMT	ISUP OGT handler could not send IAM because CNI ring is down.
906	PHF		Out					ISUP OGT handler failed to connect transceiver to OGT on first try.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
907	PHF		Out					ISUP OGT handler failed to reserve network path on first attempt.
908	SGT		Out	ROA	CFL	CFL	EMT	UCIC message was received on ISUP OGT. No retry.
909	IKF		Out	ROA	CFL	CFL	EMT	ISUP OGT received restricted routing category—FEN class prohibits reception.
910	PST	FEA	In	T				Permanent signal time-out on IDTS ICT.
911	PDT		In	T				Partial dial time-out on IDTS ICT while on queue for call register.
912	PDT	FEA	In	T				Partial dial time-out on IDTS ICT while collecting digits in trunk register.
913	MSC		In	ROA				More than ten digits received on IDTS ICT while on queue for call register.
914	MSC		In	ROA				More than ten digits received on IDTS ICT while collecting digits in trunk register.
915	PER		In					DTMF digit received on IDTS ICT while on call register queue.
916	PER		In					Illegal DTMF digit received; not on call register queue.
917	PER		In					Illegal digit found during PBX prefix screening. Reported to VCNTANAL.
918	PER		In					Illegal DTMF digit received after third digit while on call register queue.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
919	PSF		In	IVC	VNN	EMT	EMT	Illegal DTMF digit (star or pound) received after third digit. Not on IDTS CR queue.
920	MSC		In	ROA				IDTS call register queue found full when trying to queue for call register.
921	PDT	FEA	In	T				Partial dial time-out on IDTS or DTMF wink start ICT while collecting digits in CR.
922	PST	FEA	In					Permanent signal time-out on DTMF wink start ICT.
923	PER		In					Illegal DTMF digit in call register.
924	PER		In					Illegal DTMF star digit received after third digit.
925	PER		In					Pound digit (end of dialing) received bu not enough digits for translation. Reported to VCNTANAL.
926	MSC		In					More than 18 DTMF digits received on IDTS or DTMF wink start ICT.
927	PER		In					Illegal DTMF digit found in call register during PBX prefix screening. Reported to VCNTANAL.
930	PER	FEA	In	VCA				Invalid digit count for codeline call type on IDTS or DTMF wink start ICT.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
931	PER	FEA	In					DTMF pound digit received for end of dialing. Translations indicate more digits required. Reported to VCNTANAL.
932	PER	FEA	In	VCA				Invalid digit count received for routing data block call type on IDTS or DTMF wink start ICT. Reported to VCNTANAL.
933	VAC		In	VCA				Invalid call type for DTMF ICT. Reported to VCNTANAL.
934	MSC		In	HW		HW NIR		ISUP ICT could not send SSD message because CNI ring was down.
935	MSC		In	HW		HW NIR		ISUP ICT could not send SSD message because CNI buffers were full.
937	MSC		In	HW		HW NIR		ADC could not be sent on ISUP ICT because CNI buffers are full.
939	MSC		In	HW		HW NIRNIA		ADC could not be sent on ISUP ICT because CNI ring was down.
940	BNF		In					Call irregularity for a non-EAS call on an EAS only TSG where AI was not received and the ANI failure action is routed and recorded.
941	MSC		In	HW		HW NIR		ANS could not be sent on MAS call on ISUP ICT because CNI ring was down.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
942	BNF		In	ROA	CFL	CFL	EMT	Final handle the non-EAS call placed on an EAS only TSG where ANI was required but not received. The ANI failure action was not routed and recorded.
943	MSC		In	HW		HW NIR		ANS could not be sent on MAS call on ISUP ICT because CNI buffers were full.
944	MAB		In	HW	RLG	RLC	RECOM	ISUP incoming handler received Release message without a cause parameter.
945	MSC		In	HW		HW		ADC could not be sent on PAS or MAS call on ISUP ICT because CNI ring was down.
946	DSF		In	ROA	CFL	CFL	EMT	On an SDN Call with SDN Call Forwarding feature routing digits in the form 8YY not received from NCP.
947	MSC		In					ADC could not be sent on a PAS or MAS call on an ISUP ICT because the CNI message buffers were full.
949	MSC		In	ROA	CFL	CFL	EMT	Call is denied because another carrier is trying to use routing category reserved for AT&T Network.
950	CPF	FEA	Out					Found incoming seizure on one-way DTMF OGT; first trial.
951	CPF	FEA	Out	ROA	CFL			Found incoming seizure on one-way DTMF OGT; final trial.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
952	GLR		Out					Found incoming seizure on two-way DTMF trunk; first trial glare.
953	GLR		Out	ROA	CFL			Found incoming seizure on two-way DTMF trunk; final trial glare.
954	MSC		Out	ROA	NSC			DTMF transmitter queue full during DTMF outgoing call setup.
955	MSC		Out	ROA	NSC			Network path hunt failed to connect ICT to OGT during DTMF outgoing call setup.
956	NSD	FEA	Out					First trial wink start time-out on DTMF OGT.
957	NSD	FEA	Out	ROA	CFL			Final trial wink start time-out on DTMF OGT.
958	NSD	FEA	Out					First trial failure to get on-hook of wink start signal on one-way DTMF OGT.
959	NSD	FEA	Out	ROA	CFL			Final trial failure to get on-hook of wink start signal on one-way DTMF OGT.
960	GLR		Out					First trial glare detected on two-way DTMF OGT. Far-end controls.
961	GLR		Out	ROA	CFL	CFL	EMT	Final trial glare on a two-way DTMF OGT—we (near end) back down.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
962	GLC		Out			EMT	EMT	Glare on a two-way DTMF trunk. The controlling (near) end, persists, expecting the far end to back down.
963	NSD		Out	ROA	CFL	CFL	EMT	No start dial (on hook of wink start) signal after determining this is the glare control office for this trunk.
964	MSC		Out	ROA	NSC	SEC	EMT	In trying to connect an outgoing DTMF outgoing DTMF trunk to a transmitter, the network path hunt failed.
965	UXS		Out			EMT	EMT	First trial unexpected stop (off-hook) from DTMF OGT while outputting digits.
966	UXS		Out	ROA	CFL	CFL	EMT	Final trial unexpected stop (off-hook) from DTMF OGT while outputting digits.
967	MSC		In	VCA		UBC		ISUP IAM contains an invalid bearer capability parameter.
969	PER		In	VCA	ADI	ADI	EMT	ISUP IAM contained an invalid called address.
970	MSC		In	IVC	VNN	EMT	EMT	The call has visited too many switches; probably shuttle routing.
971	PHF		In	ROA	CFL	CFL	EMT	Transceiver could not be connected for the COT check for an ISUP ICT.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
973	MSC		In	ROA		SEC		No transceivers are available for COT check for ISUP ICT.
975	MSC		In	ROA		CFL		VPA loop could not be set up for ISUP 4-wire trunk.
977	MSC		In			BLO		Maintenance busy checks indicate that trunk is locked out.
979	MSC		In	ROA		SEC		No ISUP CR queue slots available for this call.
985	MSC		In	HW		HW		ISUP trunk timed out while waiting for Release Complete message.
986	MAB		In	IDNG		IDM		Group Reset message was received on ISUP call that was on queue for CR.
987	MAB		In	IDNG		IDM		Group Reset message was received on ISUP call that was busy to CR.
988	MSC		In	EA1		EA SPCL		COT received on ISUP call that is waiting to play announcement.
989	MSC		In	Idle	Idle	IDM	IDM	No GOP received for reach handoff— call continues.
990	MSC		In	ROA	CFL	CFL	EMT	No GOP in ISUP IAM for reach handoff call— the call is killed.
991	MAB		In					ISUP ICT was on queue for CR when Release message was received.
993	MAB		In			RLC		ISUP ICT was on queue for CR when Release message was received.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
995	MAB		In		RLG	RLC	RELCOM	ISUP ICT was busy to CR when Release message was received.
997	CKF		In	ROA		CFL		ISUP ICT timed out while waiting for COT.
999	CKF		In	HW		HW NIR		COT failure occurred on ISUP ICT that was on queue for CR.
1000	DSF		In	BT	SSB	EMT	Disc_Ub	The capabilities required to complete a service assist or handoff are not available at the AAS/HAS.
1001	CKF		In	HW NIA		HW NIR		COT failed on ISUP ICT that was waiting for COT.
1002	MSC		In	ROA		RSC		Unexpected message received on ISUP ICT attached to CR.
1003	IUR		In					A Release message was received on idle ISUP trunk.
1004	IUR		In	ROA		RSC		Unexpected message received on idle ISUP trunk or ISUP trunk queue for CR.
1005	IUR		In	ROA		RSC		Unexpected COT message received on ISUP ICT.
1006	MNM		Out	NCA	NTC			4ESS switch doing OTS function. DNHR cancel control was found applicable.
1007	MNM		Out	NCA	NTC			4ESS switch doing OTS function. No reroute trunk found and replace regular RDB mode was in effect.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1008	DNF		In	VCA	VNN			4ESS switch functioning as DNHR OTS via, or TTS detected invalid condition in routing translation data during OGT hunt. Reported to VCNTANAL.
1009	DNF		In		CBK			Illegal number subscription call type found. Reported to VCNTANAL.
1010	NCA							The call is final handled when it exhausts the carrier in the OCTCP table (originating carrier and terminating country pair)
1011	ANM		Out		NTC			DNHR S-DOC in effect on OGT group (4ESS switch DNHR OTS).
1014	MSC		In			EMT	EMT	TC of RPI derived by CIRC.SELEC.CAPAB.ROUTING trunk hunt does not match TC derived by class of service.
1015	MSC		In			EMT	EMT	An invalid CSCI was derived or received. Error was detected during CIRC.SELEC.CAPAB.ROUTING trunk hunt.
1016	DNF		In		VNN			Routing error found at DNHR TTS. Reported to VCNTANAL.
1017	DNF		In		CBK			Failed to find RDB for direct route to OTS with LSP = 0. Reported to VCNTANAL.
1018	DNF		In		CBK			Failed to find required DNHR route in hierarchical RDB. Reported to VCNTANAL.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1019	VNC		In		CBK			All engineered direct routes busy or failed trunk reservation test.
1020	DNF		Out		DSR			DSR received on OGT.
1021	DNF		Out	NCA	NTC			DSC received on OGT (4ESS switch OTS or TTS).
1022	DNF		Out		DSC			DSC received on OGT (4ESS switch VTS).
1023	DNF		Out		CBK			OGT crankback received at 4ESS switch VTS.
1024	NCA		Out	INC	INC	CGC	EMT	Asset (per-call control) had DLC control active at data level (not total traffic level). No idle OTG could be found.
1025	VAC		Out	VCA	VNN	VNN	EMT	An invalid call type was produced by digit translations for an interim SAFER/ADCR alternate number.
1026	QPE		In					Mandatory IE missing in Facility message.
1027	VAC		In	VCA	VNN	VNN	EMT	The 4ESS switch acting as the RTNR OAS failed to find a TSG list for DSN in the call type word.
1028	NCA		In	NCA	NTC	CGC	EMT	The 4ESS switch using RTNR routing failed to find an OGT.
1029	VAC		In	VCA	VNN	VNN	EMT	When the 4ESS switch was doing RTNR routing, it found invalid/inconsistent ODA routing data. OGT state vector indicates fail point—see pident TRANRTNR.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1030	VAC		In	VCA	VNN	VNN	EMT	The 4ESS switch acting as RTNR VAS failed to find TSG list for NSN.
1031	VAC		In	VCA	VNN	VNN	EMT	Invalid call type detected for routing an RTNR call via SAFER control.
1032	MSC		In	ROA	PDT	EBC	EMT	Egress busy crankback. RTNR SAFER controlled call.
1033	NCA		In	NCA	NTC	CGC	EMT	All circuits busy for SAFER routing via MRTT translations.
1034	IKF		In					Invalid Service Identity Index (SII) on an RTNR call.
1035	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a call Proceeding message has been received on a CPA B1 OGT.
1036	QPE		Out	HW	EMT	EMT	EMT	Invalid clearing message received on a Q.931 OGT (CPA B1) while busy to a CR.
1037	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a Q.931 OGT with no Adjunct Logical Address (for both 1st and 2nd timeout).
1038	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 15 (for both 1st and 2nd timeout).

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1039	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 14 (for both 1st and 2nd timeout).
1040	NCA		In	NCA	NTC	CGC	EMT	OGT found by trunk hunt for an ISUP required call is not ISUP, InUP, or Q.931.
1041	VAC		Out	NCC	EMT	EMT	EMT	Error reported by OGT on a cut-through call at an access tandem. A non-ISUP OGT was selected.
1042	PDTO		In					ICT timed out waiting for subsequent digits from a SAM message.
1043	PDTO		In					ICT timed out waiting for a SAM/SAD message.
1044	PER		In					Subsequent Address message arrived which made total digit count greater than 18.
1045	PER		In					Subsequent Address message arrived which made total digit count greater than 18.
1046	MSC		In					Subsequent Address message arrived while call was on queue for a CR.
1047	MSC		In					Subsequent Address message arrived while call was on queue for a CR.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1048	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 13 (for both 1st and 2nd timeout).
1049	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 12 (for both 1st and 2nd timeout).
1050	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 11 (for both first and second timeout).
1051	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on A CPA Q.931 OGT with Adjunct Logical Address 10 (for both first and second timeout).
1052	QPE		In				RC_ INVI- ECON	Q.931 Setup message requested too many nonallowed facilities in NSF IE.
1053	QPE		In				RC_ INVI- ECON	Q.931 Setup message contained too many NSF IEs.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1054	QPE		In				RCIIEC	Setup message received on a Q.931 trunk from a CONVERSANT® interactive voice information system with information in the Facility IE.
1055	QPE		In				RCMIEM	Setup message received on a Q.931 trunk from a CONVERSANT interactive voice information system was missing the mandatory Facility IE.
1056	QPE		In			EMT	EMT	The mandatory Facility IC is missing when a Facility message is received in the setup state on a CONVERSANT interactive voice information system trunk.
1057	QPE		In			EMT	EMT	Improperly formatted Facility IE in the Facility message received in the setup state on a CONVERSANT interactive voice information system trunk.
1058	QPE		In				RC_IIEC	Field in the Billing Number IE in the Setup message was found to be invalid on a Q.931 ICT.
1059	QPE		In				RC_IIEC	Field in the Facility IE In the Setup message was found to be invalid on a Q.931 ICT.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1060	MSC		Out					Received channel negotiation request on trunk not in the same RDB as original trunk.
1061	MSC		Out					Received channel negotiation request for channel ID whose TSN is invalid in the 4ESS switch.
1062	MSC		Out					Received channel negotiation request for trunk that is not traffic idle.
1063	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 9 (for both 1st and 2nd timeout).
1064	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 8 (for both 1st and 2nd timeout).
1065	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 7 (for both 1st and 2nd timeout).
1066	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 6 (for both 1st and 2nd timeout).

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1067	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 5 (for both 1st and 2nd timeout).
1068	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 4 (for both 1st and 2nd timeout).
1069	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 3 (for both 1st and 2nd timeout).
1070	QPE		In				RCM-IEM	Setup message on Q.931 call by call trunk was missing mandatory network specific Facilities IE.
1071	QPE		In				RC_SE RV_NA VAIL	Invalid service was requested in Setup message on Q.931 ICT.
1072	QPE		In				RC_FA CNSUB	Setup message was received on Q.931 trunk with requested service that is not subscribed.
1073	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 2 (for both 1st and 2nd timeout).

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1074	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 1 (for both 1st and 2nd timeout).
1075	QPE		Out	HW	EMT	EMT	EMT	Timeout after sending a Setup message on a CPA Q.931 OGT with Adjunct Logical Address 0 (for both 1st and 2nd timeout).
1076	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address.
1077	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 15.
1078	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 14.
1079	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 13.
1080	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 12.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1081	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 11.
1082	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 10.
1083	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 9.
1084	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 8.
1085	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 7.
1086	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 6.
1087	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 5.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1088	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 4.
1089	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 3.
1090	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 2.
1091	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 1.
1092	QPE		Out	HW	EMT	EMT	EMT	Timeout waiting for a message after a Progress message has been received on a CPA Q.931 OGT (B1) with Adjunct Logical Address 0.
1094	MNM		In					BOC SSP calls blocked due to NM carrier—digits call gap control.
1095	ANM		In	NCA	NTC	CGC	EMT	BOC SSP calls blocked due to SCP overload.
1096	ANM		In	BT	SSB	EMT	DISC_UB	BOC SSP calls blocked due to SMS initiated controls.
1097	ANM	NO	In	BT	FIC BT	FIC BT	EMT	BOC SSP call blocked due to mass calling controls.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1098	ANM	NO	In	VCA	VNN	VNN	EMT	BOC SSP call blocked due to vacant code controls.
1099	ANM	NO	In	OOB	EMT	EMT	EMT	BOC SSP call blocked due to nonpurchased NPA controls.
1100	VAC		In	VCA	VNN	VNN	EMT	Illegal call type or data on POTS retranslation of SSP call returned by SCP. Reported to VCNTANAL.
1101	MSC		In	ROA	CFL	CFL	EMT	Too many translations performed on SSP call returned by SCP database.
1102	PER		In	ROA	CFL	CFL	EMT	Unacceptable digit count found on POTS retranslation on SSP call returned by SCP database. Reported to VCNTANAL.
1103	VAC		In	VCA	VNN	VNN	EMT	Illegal call type on NSR translation of SSP call returned by SCP database. Reported to VCNTANAL.
1104	QPE		Out	HW	EMT	EMT	EMT	Received a Disconnect or a Release Complete message with an improperly formatted Codeset 6 Facility IE and with operation value = Bill on a Q.931 OGT (OPA) B1 while busy to ACR.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1105	QPE		Out	HW	EMT	EMT	EMT	Received a Disconnect or a Release Complete message with an improperly formatted Codeset 6 Facility IE and with operation value = redirect on a Q.931 OGT (OPA) B1 while busy to ACR.
1106	DSF		In	ROA	CFL	CFL	EMT	Failed to send BOC SSP initial query because CNI stream down.
1107	DSF		In	ROA	CFL	CFL	EMT	Failed to send BOC SSP initial query because of CNI send buffer overflow.
1108	DSF		In	ROA	CFL	CFL	EMT	Timed out waiting for response from SCP database.
1109	DSF		In	ROA	CFL	CFL	EMT	Received Reject message from SCP in response to initial query.
1110	DSF		In	ROA	CFL	CFL	EMT	Received return error message from SCP in response to initial query.
1111	DSF		In	ROA	CFL	CFL	EMT	Message received from SCP in response to initial query contained fatal protocol errors.
1112	DSF		In	ROA	CFL	CFL	EMT	Received Play Announcement message from SCP in response to initial query.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1113	DSF		In	ROA	CFL	CFL	EMT	BOC SSP initial query returned as Unit Data Service message because it encountered transport problems.
1114	DSF		In	ROA	CFL	CFL	EMT	BOC SSP initial query returned by CNI.
1115	DSF		In	ROA	CFL	CFL	EMT	BOC SSP initial query returned by DLN.
1116	DSF		In					BOC SSP nonfatal exception report; for trunk maintenance report only.
1118	UXS		Out			EMT	EMT	Unexpected stop on first EA outgoing call attempt direct to INC.
1119	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC.
1120	UXS		Out			EMT	EMT	Unexpected stop on first EA outgoing call attempt direct to INC.
1121	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on first EA outgoing call attempt direct to INC.
1122	UXS		Out			EMT	EMT	Unexpected stop on first EA outgoing call attempt to INC via AT.
1123	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT.
1124	UXS		Out			EMT	EMT	Unexpected stop on first EA outgoing call attempt to INC via AT.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1125	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on first EA outgoing call attempt to INC via AT.
1126	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on first EA outgoing call attempt to an Interexchange Carrier via AT.
1127	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to an Interexchange Carrier via AT.
1128	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on first EA outgoing call attempt to an Interexchange Carrier via AT.
1129	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to an Interexchange Carrier via AT.
1130	NCD		In	NCD	EMT	EMT	EMT	Positive Call Processing Capability Control Procedure (PCPCCP) is killing this call as the switch's BN (ANI) database (Release 2 OR 3 indicates this caller is delinquent).
1131	PHF		In					In service Positive Call Processing (PCP) DTMF receiver queue, obtained receiver but failed to connect receiver to the ICT— path hunt failed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1132	MSC		In					In servicing PCP DTMF receiver queue, detected queue, overload.
1133	PER		In					In attempting to collect Subaccount Number (SAN) for Subaccount Billing (SAB), collected at least one DTMF digit that is not valid for a SAN— call irregularity.
1134	PER		In					In attempting to collect SAN for SAB, collected at least one DTMF digit that is not valid for a SAN—final trial.
1135	PST		In					In attempting to collect SAN for SAB, timed out having collected no digits—call irregularity.
1136	PST		In					In attempting to collect sub-account number (SAN) for sub-account billing (SAB), timed out having collected no digits — Final trial
1137	PDT		In					In attempting to collect sub-account number (SAN) for sub-account billing (SAB), timed out without having collected enough digits — Call irregularity

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1138	PDT		In					In attempting to collect sub-account number (SAN) for sub-account billing (SAB), timed out without having collected enough digits — Final trial
1140	MSC		In	HW	TIME Out After ANN	RLS	DISC_UNKN	PCPCCP reentering final handling at end of tone or announcement to have CR released
1141	PER		In			EMT	EMT	PCPCCP In attempting to collect call type indicator for mixed use voice/fax, received a bad digit
1142	PER		In			EMT	EMT	PCPCCP in attempting to collect service code for 1 + spontaneous access to call delivery service received an illegal digit or bad service code
1143	PER		In			EMT	EMT	PCPCCP in attempting to collect service code for fax store and forward received an illegal digit or bad service code
1144	PER		In	NWC	EMT	EMT	EMT	PCPCCP in attempting to collect CTI for an MUVF call received a bad digit — Final trial

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1145	PER		In	NWC	EMT	EMT	EMT	PCPCCP in attempting to collect SC for SACDS received an illegal digit or bad SC — Final trial
1146	PER		In	NWC	EMT	EMT	EMT	PCPCCP in attempting to collect SC for a fax S&F received an illegal digit or bad SC Final trial
1147	PST		In			EMT	EMT	PCPCCP in attempting to collect SC for SACDS received no more digits after the initial pound (#) — Call irregularity
1148	PST		In			EMT	EMT	PCPCCP in attempting to collect SC for fax S&F received no digits after the initial pound (#) — Call irregularity
1149	PST		In	NWC	EMT	EMT	EMT	PCPCCP in attempting to collect SC for SACDS received no digits after the initial pound (#) — Final trial
1150	PST		In	NWC	EMT	EMT	EMT	PCPCCP in attempting to collect SC for fax S&F received no digits after the initial pound (#) — Final trial
1151	PDT		In			EMT	EMT	PCPCCP in attempting to collect SC for SACDS did not receive a complete SC — Call irregularity

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1152	PDT		In			EMT	EMT	PCPCCP in attempting to collect SC for fax S&F did not receive a complete SC — Call irregularity
1153	PDT		In	NWC	EMT	EMT	EMT	PCPCCP in attempting to collect SC for SACDS did not receive a complete SC — Final trial
1154	PDT		In	NWC	EMT	EMT	EMT	PCPCCP in attempting to collect SC for fax S&F did not receive a complete SC — Final trial
1155	PHF		In	NCA	NTC	CGC	EMT	PCPCCP in trying to convert a one-way intra-buffer connection between an ICT and DTMF receiver to a two-way connection (after 1 + SACDS or fax S&F customer entered pound), encountered network path hung failure
1156	MSC		In	NWC	EMT	EMT	EMT	PCPCCP in handling subaccount billing account code validation encountered failure to send a query
1157	MSC		In	NWC	EMT	EMT	EMT	PCPCCP in handling subaccount billing account code validation failed to receive a reply to the query

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1158	MSC		In	NWC	EMT	EMT	EMT	PCPCCP in handling subaccount billing account code validation received a reply to the query, but the DLN reply contained no data or inconsistent data
1159	PER		In	NWC	EMT	EMT	EMT	PCPCCP in handling subaccount billing account-code validation, final trial fails call as received SAN digits did not match any set in customer preassigned value list (PVL)
1160	PER		In	SIF	EMT	EMT	EMT	Equal access MF SSP incoming call; invalid ANI sequence received
1161	VAC		In	VCA	VNN	VNN	EMT	Equal access MF SSP incoming call, invalid call type on third (address) sequence; reported to VCNTANAL
1162	VAC		In	VCA	VNN	VNN	EMT	Retranslate digits in NSR domain on SSP call type without SCP data base query; reported to VCNTANAL
1163	PER		In	SIF		EMT		Equal access MF SSP incoming call; no ANI sequence received

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1164	MSC		In	ROA	CFL	CFL	EMT	Equal access MF outpulsing program in handling an AT&T MEGACOM® 800 Telecommunications Service to another IXC found there was no dialed number in the call register
1165	DSF		In					The UGT database failed to find a customer record for a resell featured call. This is a call irregularity report only.
1167	PHF		In	NCA	NTC	CGC	EMT	When servicing government emergency telecommunications, the DTMF receiver queue got a receiver but failed to connect it to the ICT (path hunt failed).
1168	MSC		In	NCA	NTC	CGC	EMT	When servicing government emergency telecommunications, the DTMF receiver queue got a receiver but failed to obtain a DTMF receiver (queue overload).
1169	DSF		In			EMT	EMT	Government emergency telecommunication services — NSC pre-query error.
1170	DSF		In			EMT	EMT	Government emergency telecommunication services — SCS pre-query error.
1171	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1172	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1173	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1174	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1175	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1176	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1177	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1178	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1179	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1180	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1181	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1182	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on first EA outgoing call attempt direct to INC
1183	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1184	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1185	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1186	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1187	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1188	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1189	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1190	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1191	UXS		Out					Unexpected stop on first EA outgoing call attempt direct to INC
1192	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt direct to INC
1193	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1194	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1195	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1196	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1197	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1198	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1199	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1200	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1201	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1202	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1203	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1204	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1205	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1206	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1207	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1208	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1209	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1210	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1211	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1212	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1213	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1214	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1215	UXS		Out					Unexpected stop on first EA outgoing call attempt on IC CALL VIA AT
1216	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to IC via AT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1217	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC via AT
1218	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to IC via AT
1219	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC via AT
1220	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to IC via AT
1221	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC via AT
1222	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to IC via AT
1223	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1224	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1225	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1226	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1227	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1228	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1229	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1230	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1231	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1232	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1233	UXS		Out					Unexpected stop on first EA outgoing call attempt to INC via AT
1234	UXS		Out	ROA	CFL	CFL	EMT	Unexpected stop on second EA outgoing call attempt to INC via AT
1235	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC direct
1236	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt to IC direct
1237	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC direct
1238	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt to IC direct

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1239	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC direct
1240	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt to IC direct
1241	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC direct
1242	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt to IC direct
1243	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC direct
1244	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt to IC direct
1245	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC direct
1246	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt to IC direct
1247	UXS		Out					unexpected stop on first EA outgoing call attempt to IC direct
1248	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt to IC direct
1249	UXS		Out					Unexpected stop on first EA outgoing call attempt to IC direct

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1250	UXS		Out	NWC	EMT	EMT	EMT	Unexpected stop on second EA outgoing call attempt to IC direct
1251	MSC		Out					MF transmitter error on second EA outgoing call attempt to INC
1252	FTF		Out	ROA	CFL	CFL	EMT	MF transmitter error on second EA outgoing call attempt to INC
1253	MSC		Out					MF transmitter error on first EA outgoing call attempt to INC via AT
1254	FTF		Out	ROA	CFL	CFL	EMT	MF transmitter error on second EA outgoing attempt to INC via AT
1255	MSC		Out					MF transmitter error on first EA outgoing call attempt to IC via AT
1256	FTF		Out	ROA	CFL	CFL	EMT	MF transmitter error on second EA outgoing attempt to IC via AT
1257	MSC		Out					MF transmitter error on first ea outgoing call attempt to IC direct
1258	FTF		Out	ROA	CFLI	CFL	EMT	MF transmitter error on second EA outgoing attempt to IC direct
1259	NSD		Out					Wink pulse (wink, SSD, PAW) too long detected on first EA outgoing call attempt direct to INC
1260	NSD		Out	NWC	EMT	EMT	EMT	Wink pulse (wink, SSD, PAW) too long detected on second EA outgoing call attempt direct to INC

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1261	NSD		Out					Wink pulse (Wink, SSD, PAW) too long detected on first EA outgoing call attempt direct to INC
1262	NSD		Out	NWC	EMT	EMT	EMT	Wink pulse (Wink, SSD, PAW) too long detected on second EA outgoing call attempt direct to INC
1263	NSD		Out					Wink pulse (Wink, SSD, PAW) too long detected on first EA outgoing call attempt to INC via AT
1264	NSD		Out					Wink pulse (Wink, SSD, PAW) too long detected on second EA outgoing call attempt to INC via AT
1265	NSD		Out					Wink pulse (Wink, SSD, PAW) too long detected on first EA outgoing call attempt to INC via AT
1266	NSD		Out					Wink pulse (Wink, SSD, PAW) too long detected on EA outgoing call attempt to IC via AT
1267	NSD		Out					Wink pulse (Wink, SSD, PAW) too long detected on EA outgoing call attempt to IC via AT
1268	NSD		Out					Wink pulse (Wink, SSD, PAW) too long detected on first EA outgoing call attempt direct to IC

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1269	NSD		Out	NWC	EMT	EMT	EMT	Wink pulse (Wink, SSD, PAW) too long detected on second EA outgoing call attempt direct to IC
1270	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call direct to INC. No short winks were detected.
1271	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call direct to INC. Short winks were detected.
1272	NSD		Out	NWC	NWC	EMT	NWC	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call direct to INC. No short winks were detected.
1273	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call direct to INC. Short winks were detected.
1274	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call direct to INC. No short winks were detected.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1275	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call direct to INC. Short winks were detected.
1276	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call direct to INC. No short winks were detected.
1277	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call direct to INC. Short winks were detected.
1278	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. No short winks were detected.
1279	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1280	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. No short winks were detected.
1281	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
1282	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. No short winks were detected.
1283	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
1284	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
1285	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1286	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
1287	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
1288	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
1289	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
1290	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1291	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1292	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1293	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1294	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1295	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1296	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1297	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1298	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1299	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (Wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1300	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1301	NSD		Out	NWC	EMT	EMT	EMT	Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
1302	VAC		In	VCA	VNN	VNN	EMT	Load CCC digits subroutine encountered invalid HT4CCONV table entry. Reported to VCNTANAL.
1303	MSC		Out			EMT	EMT	An outgoing call to an OSPS position failed to receive an ANI send off-hook signal on the first attempt.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1304	MSC		Out	ROA	CFL	CFL	EMT	An outgoing call to an OSPS position failed to receive an ANI-send off-hook signal on the second attempt.
1305	MSC		Out			EMT	EMT	An MF transmitter error on first EA outgoing call attempt to an OSPS.
1306	MSC		Out	ROA	CFL	CFL	EMT	An MF transmitter error on second EA outgoing call attempt to an OSPS.
1307	MSC		Out	ROA	CFL	CFL	EMT	An outgoing call to OSPS position received an abandon from the position during call setup
1308	MSC		Out	T	CFL	CFL	EMT	ISUPOGT handler received a Backward Release message with illegal announcement ID of none
1309	MSC		Out	AR	SSB	Pass Cause	Pass Cause	ISUPOGT handler received a Backward Release message with announcement ID of audible ring
1310	CFL		Out	T	CFL	Pass Cause	Pass Cause	ISUPOGT handler received a Backward Release message with announcement ID of reorder tone
1311	MSC		Out	BT	SSB	Pass Cause	Pass Cause	ISUPOGT handler received a Backward Release message with announcement ID of busy tone

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1312	MSC		Out	T	CFL	CFL	EMT	ISUPOGT handler received a Backward Release message with announcement ID of test progress tone
1313	MSC		Out	T	CFL	CFL	EMT	ISUPOGT handler received a Backward Release message with announcement ID of milliwatt tone
1314	CFL		Out	NCA	NTC	Pass Cause	Pass Cause	ISUPOGT handler received a Backward Release message with announcement ID of no circuit available
1315	ADF		Out	VCA	VNN	Pass Cause	Pass Cause	ISUPOGT handler received a Backward Release message with announcement ID of vacant code announcement
1316	CFL		Out	ROA	CFL	Pass Cause	Pass Cause	ISUPOGT handler received a Backward Release message with announcement ID of reorder announcement
1317	MSC		Out	EA1	EMT	Pass Cause	Pass Cause	ISUP OGT handler received a Backward Release message with announcement ID of Emergency Announcement 1.
1318	MSC		Out	EA2	EMT	Pass Cause	Pass Cause	ISUP OGT handler received a Backward Release message with announcement ID of Emergency Announcement 2.
1319	MSC		Out	SP1	EMT	Pass Cause	Pass Cause	ISUP OGT handler received a Backward Release message with announcement ID of Special Announcement 1.
1320	MSC		Out	SP2	EMT	Pass Cause	Pass Cause	ISUP OGT handler received a Backward Release message with announcement ID of Special Announcement 2.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1321	MSC		Out	T	CFL	CFL	EMT	ISUP OGT handler received a Backward Release message with announcement ID of Idle Guard Timing.
1322	MSC		Out	T	CFL	CFL	EMT	ISUP OGT handler received a Backward Release message with announcement ID of High and Wet.
1323	MSC		Out	T	CFL	CFL	EMT	ISUP OGT handler received a Backward Release message with announcement ID of Idle No Guard Timing.
1324	MSC		Out	T	CFL	CFL	EMT	ISUP OGT handler received a Backward Release message with announcement ID of 10 DB Tone.
1325	MSC		Out	MCA	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Misrouted CAMA.
1326	MSC		Out	NCC	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of SDN Egress Busy.
1327	MSC		Out	NWC	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of PCP Call Failure.
1328	MSC		Out	OOB	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Out of Band.
1329	MSC		Out	EA3	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Emergency Announcement 3.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1330	MSC		Out	EA4	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Emergency Announcement 4.
1331	MSC		Out	EA5	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Emergency Announcement 5.
1332	MSC		Out	EA6	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Emergency Announcement 6.
1333	MSC		Out	EA7	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Emergency Announcement 7.
1334	MSC		Out	NCD	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Network Call Denial.
1335	MSC		Out	INC	NTC	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of International No Circuit.
1336	ADF		Out	IVC	VNN	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of International Vacant Code.
1337	CFL		Out	IFF	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of International Foreign Failure.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1338	MSC		Out	SNA	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of Service Not Active.
1339	MSC		Out	VMA	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of Vacant MAS Announcement.
1340	MSC		Out	OTS	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of HICAP out of time slot.
1341	MSC		Out	STO	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of Sun Transit Outage.
1342	MSC		Out	NWN	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of Vacant 800 Number.
1343	MSC		Out	DNN	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of Disc. 800 Number.
1344	MSC		Out	TDN	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of Temp. Disc. 800 Number.
1345	MSC		Out	INF	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of Info 1 ANI Failure.
1346	MSC		Out	NCB	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of LEC Egress. Busy.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1347	MSC		Out	WAT	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Waiting for Answer Timeout.
1348	MSC		Out	LSA	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Intra-LATA Call Screening.
1349	MSC		Out	OOA	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Out of Area.
1350	CCP		In	VCA	VNN	VNN	EMT	Barge-in was not allowed for CCPAS-ANI delivery service call.
1351	CCP		In	ROA	CFL	CFL	EMT	Either an ANI was not available, a TSI port was PESTed, or a duplex failure was encountered after the ANI had been retrieved on CCPAS-ANI delivery service call.
1352	CCP		In	ROA	CFL	CFL	EMT	Either an ANI was not available, a TSI port was PESTed, or a duplex failure was encountered after ACK from vendor was received on CCPAS-ANI delivery service call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1353	CCP		In	ROA	CFL	CFL	EMT	DTCR timed-out while waiting for ACK from vendor that ANI was received on CCPAS-ANI delivery service call.
1354	CCP		In	VCA	VNN	VNN	EMT	Failed to obtain cut-thru number on CCPAS-ANI delivery service call. Reported to VCNTANAL.
1355	MNM					EMT	EMT	Network management carrier and/or code call gap blocked service switching point (SSP) call. Prints ported number gap digits.
1359	CCP	No	In					ANI delivery SADC message has been returned.
1360	CCP	No	In					ANI delivery SCCP message has been returned.
1361	CCP	No	In					Excessive number of register messages were sent to vendor in 1 second.
1362	CCP	No	In					Excessive number of time-outs waiting for vendor acknowledgment for a specific vendor were seen in 1 minute.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1363	CCP	No	In					Sent ANI and dialed digits to vendor for ANI delivery service. Feature encountered rejection of received ANI and digits from vendor.
1364	CCP	No	In					Request to send ANI and dialed digits for ANI delivery service. Feature encountered invalid CL-SCCP message.
1366	CCP	No	Out					Request to send ANI and dialed digits for ANI delivery service. Feature encountered link to vendor outage.
1367	CCP	No	In					Request to send ANI and dialed digits for ANI delivery service. Feature encountered CNI ring outage.
1368	CCP	No	In					Request to send ANI and dialed digits for ANI delivery service. Feature encountered translation error in vendor data translator.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1369	CCP	No	In					Request to send ANI and dialed digits for ANI delivery service. Feature encountered invalid ANI delivery service index.
1370	CCP		In					Timed out waiting for vendor acknowledgement that ANI was delivered or a vendor reject message was received.
1371	MSC		Out	LDV	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of AT&T Dial 1.
1372	MSC		Out	LOB	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Logging on Busy.
1373	MSC		Out	UNN	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Unallocated Number.
1374	MSC		Out	S19	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Spare.
1375	MSC		Out	DOO	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of Destination Out of Order.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1376	MSC		Out	ISB	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of International Subscriber Busy.
1377	MSC		Out	E01	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of E01— Emergency Situation.
1378	MSC		Out	E02	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of E02— Severe Weather.
1379	MSC		Out	E03	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of E03— Facility Trouble.
1380	MSC		Out	E04	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of E04— Local Company Trouble.
1381	MSC		Out	E05	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of E05— Airplane Crash.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1382	MSC		Out	E06	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of E06—Hurricane.
1383	MSC		Out	E07	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of E07—Flood.
1384	MSC		Out	E08	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of E08—Tornado.
1385	MSC		Out	E09	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of E09—Forest Fire.
1386	MSC		Out	E10	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of E10—Earthquake.
1387	MSC		Out	E11	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of E11—Mudslide.
1388	MSC		Out	E12	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of E12—Major Network Outage.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1389	MSC		Out	E13	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of E13—Reserved DOM NM.
1390	VAC		In	VCA	VNN	VNN	EMT	Bellcore Service Switching Point (SSP) translations found INWATS call-type word but this 4ESS switch is not an INWATS OSO.
1391	VAC		In	VCA	VNN	VNN	EMT	Bellcore SSP translations found invalid data in SSP Number Services Data Block (NDB).
1392	NCA		In	NCA	NTC	CGC	EMT	Outgoing trunk hunt for Bellcore SSP call failed to find idle outgoing trunk.
1393	VAC		In	VCA	VNN	VNN	EMT	Outgoing trunk hunt for Bellcore SSP call loaded CR with RDB from a TTSI block (indicates invalid attempt to route using DNHR). Reported to VCNTANAL.
1394	MSC		In	VCA	VNN	EMT	EMT	Digit reception and analysis pidents when translating the carrier ID have the problem that the carrier ID translator can only point to an SSP "check subscribed footprint area" calltype for non-international calls.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1395	MSC		In	VCA	VNN	EMT	EMT	The called number was not in the subscribed footprint area, so that the attempt was made to retranslate the carrier ID (along with DRTC and circuit code) to get routing to the carrier, but that failed.
1396	DSF		In	VCA	VNN	EMT	EMT	Digit reception LEC AIN after an initial query, the called number was not in the subscribed footprint area, so that the attempt was made to retranslate the carrier ID (along with DRTC and circuit code) to get routing to the carrier, but that failed.
1397	DSF		In	VCA	VNN	EMT	EMT	Digit reception BOC SSP response, the called number was not in the subscribed footprint area, so that the attempt was made to retranslate the carrier ID (along with DRTC and circuit code) to get routing to the carrier, but that failed.
1398	DSF		In	VCA	VNN	EMT	EMT	Digit reception attempting to translate carrier ID in NSR on SSP call type without SCP data base query and was told to check footprint.
1399	DSF		In	ROA	CFL	CFL	EMT	8YY call blocked due to payphone restrictions.
1400	MSC		In					No CRS available for ITUP continuity check request.
1401	MAB		In					Reset message received on an ITUP call that was in queue for a CR.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1402	MAB		In					Reset MSG. Received on an ITUP call that was busy to a CR
1403	MSC		In					An ADC MSG. was returned to the 1A while an ITUP call was busy to a CR
1404	MSC		In					An ADC MSG was returned on an ITUP call in a stable state
1405	MSC		In					ADC could not be sent on an ITUP ICT because the CNI buffers are full
1406	MSC		In					ADC could not be sent on an ITUP ICT because the CNI ring was down
1407	MSC		In					ADC could not be sent on a PAS call on an ITUP ICT because the CNI ring was down
1408	MSC		In					ADC could not be sent on a PAS call on an ITUP ICT because the CNI MSG buffers were full
1409	PER		In					ITUP IAM contained an invalid called address
1410	MSC		In					Unexpected MSG received on an ITUP ICT attached to a CR
1411	IUR		In					Unexpected MSG received on an idle ITUP trunk or an ITUP TRK on queue for a CR
1413	MSC		In					ICT cannot have an echo canceller present on a 64 clear call

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1414	MSC		In					VPA loop could not be set up for an ITUP trunk
1415	MSC		In					Maintenance busy checks indicate that the trunk is locked out
1416	MSC		In					No ITUP CR queue slots available for this call
1417	MSC		In					ITUP IAM was too large to fit in the ITUP CR queue slot
1418	MAB		In					A group reset MSG was received on an ITUP call that was on queue for a CR
1419	MAB		In					A group reset MSG was received on an ITUP call that was busy to a CR
1420	MSC		In					COT received on an final handling ITUP call that is waiting to play an announcement
1421	CKF		In					ITUP ICT timed out while waiting for COT
1422	CKF		In	HW	HW NIA	HW NIA	HW NIA	COT failed MSG received during call setup
1423	CKF		In					COT failed MSG received on an ITUP ICT that was on queue for a CR
1424	IUR		In					Unexpected COT MSG received on an ITUP ICT
1425	MSC		In					ITUP trunk test timed out while waiting for a clear forward MSG

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1426	IUR		In					A clear-forward message was received on an idle ITUP trunk
1427	MAB		In					ITUP ICT was on queue for a CR when a clear-forward MSG was received
1428	MAB		In					ITUP ICT was busy to a CR when a clear-forward MSGs was received
1429	MSC		Out	E14	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of E14 — Reserved DOM NM
1430	MSC		Out	E15	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of E15 — Reserved DOM NM
1431	MSC		Out	E16	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of E16 — Reserved DOM NM
1432	MSC		Out	E17	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of E17 — Reserved DOM NM
1433	MSC		Out	E18	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of E18 — Reserved DOM NM
1434	MSC		Out	E19	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of E19 — Reserved DOM NM

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1435	MSC		Out	E20	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of E20 — Reserved DOM NM
1436	MSC		Out	R01	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R01 — Dialing plan change—DOM
1437	MSC		Out	R02	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R02 — Dialing plan change—DOM
1438	MSC		Out	R03	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R03 — Dialing plan change—DOM
1439	MSC		Out	R04	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R04 — Dialing plan change—DOM
1440	MSC		Out	R05	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R05 — Dialing plan change—DOM
1441	MSC		Out	R06	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R06 — Dialing plan change—DOM
1442	MSC		Out	R07	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R07 — Dialing plan change—DOM

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1443	MSC		Out	R08	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R08 — Dialing plan change — DOM
1444	MSC		Out	R09	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R09 — Dialing plan change — DOM
1445	MSC		Out	R10	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of R10 — Dialing plan change — DOM
1446	MSC		Out	I01	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I01 — INTL Emergency situation
1447	MSC		Out	I02	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I02 — INTL Severe weather
1448	MSC		Out	I03	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I03 — INTL Telephone company
1449	MSC		Out	I04	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I04 — INTL Airplane crash
1450	MSC		Out	I05	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I05 — INTL Earthquake
1451	MSC		Out	I06	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I06 — INTL Mudslide

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1452	MSC		Out	I07	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I07 — INTL Fire
1453	MSC		Out	I08	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I08 — Reserved INTL NM
1454	MSC		Out	I09	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I09 — INTL Direct dialing SUSP
1455	MSC		Out	I10	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I10 — INTL Direct dialing test
1456	MSC		Out	I11	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I11 — Dialing plan
1457	MSC		Out	I12	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I12 — Dialing plan
1458	MSC		Out	I13	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I13 — Dialing plan
1459	MSC		Out	I14	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I14 — Dialing plan
1460	MSC		Out	I15	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I15 — Dialing plan

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1461	MSC		Out	I16	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I16 — Dialing plan
1462	MSC		Out	I17	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I17 — Dialing plan
1463	MSC		Out	I18	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I18 — Dialing plan
1464	MSC		Out	I19	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I19 — Dialing plan
1465	MSC		Out	I20	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I20 — Dialing plan
1466	MSC		Out	I21	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I21 — Dialing plan
1467	MSC		Out	I22	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I22 — Dialing plan
1468	MSC		Out	I23	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I23 — Dialing plan
1469	MSC		Out	I24	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of I24 — Reserved INTL NM

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1470	MSC		Out	I25	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I25 — Reserved INTL NM
1471	MSC		Out	I26	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID — Reserved INTL NM
1472	MSC		Out	I27	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I27 — Reserved INTL NM
1473	MSC		Out	I28	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I28 — Reserved INTL NM
1474	MSC		Out	I29	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I29 — Reserved INTL NM
1475	MSC		Out	I30	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of I30 — Reserved INTL NM
1476	MSC		Out	S01	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of S01 — Spare
1477	MSC		Out	S02	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of S02 — Spare
1478	MSC		Out	S03	EMT	Pass_Cause	Pass_Cause	ISUPOGT handler received a Backward Release message with announcement ID of S03 — Spare

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1479	MSC		Out	S04	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of S04 — Spare
1480	MSC		Out	S05	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of S05 — Spare
1481	MSC		Out	S06	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of S06 — Spare
1482	MSC		Out	S07	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of S07 — Spare
1483	MSC		Out	S08	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of S08 — Spare
1484	MSC		Out	S09	EMT	Pass_ Cause	Pass_ Cause	ISUPOGT handler received a Backward Release message with announcement ID of S09 — Spare
1485	MSC		Out	S10	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with Announcement ID of S10—Spare.
1486	MSC		Out	S11	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of S11—Spare.
1487	MSC		Out	S12	EMT	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Release message with announcement ID of S12—Spare.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1488	MSC		Out	S13	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of S13—Spare.
1489	MSC		Out	S14	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of S14—Spare.
1490	MSC		Out	S15	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of S15—Spare.
1491	MSC		Out	S16	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of S16—Spare.
1492	MSC		Out	S17	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of S17—Spare.
1493	MSC		Out	S18	EMT	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with announcement ID of S18—Spare.
1494	MSC		Out	ROA	CFL	CFL	EMT	ISUP OGT handler received a Backward Release message with an announcement ID value greater than 127.
1495	MSC		Out	T	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with an announcement ID of 17—Unassigned.
1496	MSC		Out	T	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Release message with an announcement ID of 31—Unassigned.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1497	CKF		Out	ROA	CFL	CFL	EMT	Call Progress message received on ISUP outgoing trunk but COT message not sent.
1498	MSC		Out	ROA	CFL	CFL	EMT	ISUP OGT handler did not receive answer message before its timer expired.
1500	VAC		In					Illegal call type for CCS7 transit call.
1501	PER		In					Illegal digit on CCS7 transit call.
1502	PER		In					Number of digits received outside legal range for CCS7 transit call.
1503	PER		In					Unacceptable digit count on a CCS7 transit call.
1504	VAC		In					Pseudo Country Code received on a CCS7 transit trunk.
1505	PER		In					Too few digits to determine call type on a CCS7 transit call.
1506	VAC		In					Bad data was input to the digit reception routine for a ITUP call.
1507	VAC		In					Illegal call type for a ITUP inbound call.
1508	PER		In					Illegal digit on a ITUP inbound call.
1509	PER		In					Digit count outside the acceptable range for a ITUP inbound call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1510	PER		In					Unacceptable digit count on a ITUP inbound call.
1511	VAC		In					Invalid inbound test call on a ITUP trunk.
1512	MSC		Out	ROA	CFL	CFL	EMT	Outgoing trunk cannot send 3-digit CID because first digit of 4-digit ID is not a LEC BCD zero.
1513	MSC		In	VCA	VNN	EMT	EMT	Switch received its LRN via ISUP signaling, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 6 digit level without finding PLU entry, checked the 7 digit translator for reserved and found the DN was reserved.
1514	MSC		In			AS_MCPN		Switch received its LRN via ISUP signaling, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 6 digit level without finding PLU entry, checked the 7 digit translator for reserved and found the DN was not reserved.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1515	MSC		In	VCA	VNN	EMT	EMT	Switch received its LRN via ISUP signaling, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 10 digit level upon finding PLU entry, on the FHT PLU CALLTYPE found DN was reserved and not ported out.
1516	MSC		In			AS_MCPN		Switch received its LRN via ISUP signaling, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 10 digit level upon finding PLU entry, on the FHT PLU CALLTYPE found DN was ported out.
1517	MSC		In	VCA	VNN	EMT	EMT	Switch received its LRN via ISUP signaling, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 10 digit level upon finding PLU entry, on the FHT PLU CALLTYPE found DN was not reserved and not ported out, checked the 7 digit translator for reserved and found the DN was reserved.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1518	MSC		In			AS_MCPN		Switch received its LRN via ISUP signaling, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 10 digit level upon finding PLU entry, on the FHT PLU CALLTYPE found DN was not reserved and not ported out, checked the 7 digit translator for reserved and found the DN was not reserved.
1519	MSC		In	VCA	VNN	EMT	EMT	Switch received its LRN via ISUP signaling, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Tried to translate the DN at the 10 digit level, in the PLU but no entry - was using 6 digits default PLU routing, checked the 7 digit translator for reserved and found the DN was reserved.
1520	MSC		In			AS_MCPN		Switch received its LRN via ISUP signaling, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Tried to translate the DN at the 10 digit level, in the PLU but no entry - was using 6 digits default PLU routing, checked the 7 digit translator for reserved and found the DN was not reserved.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1521	MSC		In	VCA	VNN	EMT	EMT	Switch received its LRN from the LNP NCP, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 6 digit level without finding PLU entry, checked the 7 digit translator for reserved and found the DN was reserved.
1522	MSC		In	T	CFL	PASS_CAUSE	PASS_CAUSE	Switch received its LRN from the LNP NCP, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 6 digit level without finding PLU entry, checked the 7 digit translator for reserved and found the DN was not reserved.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1523	MSC		In	VCA	VNN	EMT	EMT	Switch received its LRN from the LNP NCP, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 10 digit level upon finding PLU entry, on the FHT PLU CALLTYPE found DN was FHT PLU CALLTYPE found DN was reserved and not ported out.
1524	MSC		In	T	CFL	PASS_CAUSE	PASS_CAUSE	Switch received its LRN from the LNP NCP, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 10 digit level upon finding PLU entry, on the FHT PLU CALLTYPE found DN was ported out.
1525	MSC		In	VCA	VNN	EMT	EMT	Switch received its LRN from the LNP NCP, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 10 digit level upon finding PLU entry, on the FHT PLU CALLTYPE found DN was not reserved and not ported out, checked the 7 digit translator for reserved and found the DN was reserved.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1526	MSC		In	T	CFL	PASS_CAUSE	PASS_CAUSE	Switch received its LRN from the LNP NCP, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Translated the DN at the 10 digit level upon finding PLU entry, on the FHT PLU CALLTYPE found DN was not reserved and not ported out, checked the 7 digit translator for reserved and found the DN was not reserved.
1527	MSC		In	VCA	VNN	EMT	EMT	Switch received its LRN from the LNP NCP, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Tried to translate the DN at the 10 digit level in the PLU but no entry - was using 6 digit default PLU routing. Checked the 7 digit translator for reserved and found the DN was reserved.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1528	MSC		In	T	CFL	PASS_CAUSE	PASS_CAUSE	Switch received its LRN from the LNP NCP, and found the Destination Number (DN) (retrieved from the Ported Number GAP) resulted in vacant code upon translation. Tried to translate the DN at the 10 digit level in the PLU but no entry - was using 6 digit default PLU routing. Checked the 7 digit translator for reserved and found the DN was not reserved.
1529	MSC		In	ROA	CFL	CFL	EMT	A LRN was received as the called party number on an LSP-LOCAL type of (ISUP) trunk and upon checking this LRN found that it does not belong to this switch.
1530	MSC		Out					A CCR message was returned to the ITUP OGT handler.
1531	SGT		In					ITUP OGT handler could not send a CCR because the CNI buffers are full.
1532	SGT		Out					ITUP OGT handler could not send a CCR because the CNI ring is down.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1533	GLR		In					ITUP OGT handler received a CCR on an OGT—Glare. Do not retry.
1534	GLR		Out					ITUP OGT handler received an IAM on an OGT—Glare. CCR test stopped, but 4ESS switch IAM processed.
1535	SGT		Out					ITUP OGT handler could not send out an IAM due to CNI problem—Retry.
1536	MSC		Out					ITUP OGT handler had an IAM returned to it—retry.
1537	MSC		Out					ITUP OGT handler had an IAM returned to it and decided not to retry.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1538	SGT		Out					ITUP OGT handler could not send an IAM because the CNI buffers are full.
1539	SGT		Out					ITUP OGT handler could not send an IAM because the CNI ring is down.
1540	URS		Out					ITUP OGT handler received an out of order or irregular message—retry.
1541	URS		Out	ROA	CFL	CFL	EMT	ITUP OGT handler received an invalid or out-of-sequence message during setup.
1542	GLR		Out					ITUP OGT handler received an IAM on a trunk that is busy to a CR— Glare. Near end controls and far end should back down.
1543	GLR		Out					ITUP OGT handler received an IAM on an OGT—Glare. Near end backs down and retries.
1544	GLR		Out					ITUP OGT handler received an IAM on an OGT—Glare. Far end 4ESS switch has control.
1545	PHF		Out					ITUP OGT handler failed to connect a transceiver to the OGT on the first try.
1546	MSC		Out					ITUP OGT handler failed connect a transceiver to the OGT on the final try.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1547	MSC		Out					ITUP OGT handler failed to find a transceiver.
1548	MSC		Out					ITUP OGT handler failed to reserve a network path on the first attempt.
1549	MSC		Out					ITUP OGT handler failed to reserve a network path to ICT—final try.
1550	CKF		Out					An ITUP OGT VPA test failed on first attempt.
1551	CKF		Out					ITUP OGT VPA test failed final try.
1552	SGT		Out					COT message returned to OGT handler. Retry.
1553	SGT		Out					COT message returned to OGT handler for a call on second try.
1554	SGT		Out					ITUP OGT handler could not send COT message because the CNI buffers are full.
1555	SGT		Out					ITUP OGT handler could not send a COT message because the CNI ring is down.
1556	MSC		Out					ITUP OGT handler did not receive ADC before its timer expired.
1557	BFL		Out					ITUP OGT handler received a blocking message during setup—will retry.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1558	SGT		Out					ITUP OGT handler received a blocking message during setup on final try.
1559	MSC		Out					ITUP OTG received a SEC message during call setup.
1560	MSC		Out					OGT received a CGC message during call setup.
1561	NCS		Out					ITUP OGT received an NNC message during call setup.
1562	ADF		Out					ITUP OGT received an ADI message during call setup.
1563	CFL		Out					ITUP OGT received a CFL message during call setup.
1564	EBF		Out					ITUP OGT received an SSB message during call setup.
1565	VAC		Out					ITUP OGT received a UNN message during call setup.
1566	MSC		Out					ITUP OGT received an LOS message during call setup.
1567	MSC		Out					ITUP OGT received an SST message during call setup.
1568	MSC		Out					ITUP OGT received an ACB message during call setup.
1569	MSC		Out					ITUP OGT received a DPN message during call setup.
1570	VAC		Out					ITUP OGT received an MPR message during call setup.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1575	MSC		Out	IVC	ADI	ADI	EMT	OGT could not send IAM because called number contained more than 14 digits.
1576	QPE							Q.931 Release Complete message with CS=81 is received while in incoming setup state
1577	QPE							Q.931 Release Complete message with CS=81 is received while in incoming stable state
1578	QPE		Out					Q.931 Release Complete message with CS=81 is received while in the outgoing setup state
1579	QPE		Out					Q.931 Release Complete message with CS=81 is received while in the outgoing stable state
1580	QPE		Out					Q.931 Release Complete message with CS=81 is received while in the clearing state
1581	QPE							A setup message was received on the incoming setup state
1582	QPE							A setup message was received on a Q.931 ICT that is in the stable state
1583	QPE		Out					A setup message is received on a Q.931 OGT in the outgoing stable state

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1584	QPE		Out					An outgoing call fails the second rehunt when a release complete with Cause 44 is received
1585	QPE		Out					A setup message is received on a Q.931 outgoing trunk in the outgoing setup state
1589	DSF		In	ROA	CFL	CFL	EMT	On a 1+500 EasyReach call with CALIPER feature enabled, bill-to-indicator digits not received from 2DSA/NCP.
1590	DSF		In	HW	EMT	EMT	EMT	Redirection information received from the NCP was invalid—call irregularity report only.
1591	DSF		In	ROA	CFL	CFL	EMT	A digit was lost by the SCS frame.
1592	DSF		In	ROA	CFL	CFL	EMT	A bad announcement number was received from the NCP.
1593	DSF		In	ROA	CFL	CFL	EMT	A bad announcement number was reported from ODA data.
1594	DSF		In	ROA	CFL	CFL	EMT	A bad SCU state report was received from SCS.
1595	DSF		In	ROA	CFL	CFL	EMT	A bad list order was received from SCS.
1596	DSF		In	ROA	CFL	CFL	EMT	A bad announcement set order was received from SCS.
1597	DSF		In	ROA	CFL	CFL	EMT	An unexpected NCP command was received.
1598	DSF		In	ROA	CFL	CFL	EMT	Caller interaction commands could not be stored in the CR.
1599	DSF		In	ROA	CFL	CF	EMT	Caller interaction requested by the NCP could not be executed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1600	STO		In					ITUP trunk timed out while waiting for a Release Guard message.
1601	STO		In					ITUP trunk timed out waiting for a Clear Forward message.
1602	MSC		In	HW	EMT	EMT	EMT	4ESS switch TCAP detects errors while processing a Response message from the CAS R5 NCP.
1603	MSC		In	HW	EMT	EMT	EMT	Abort message or Reject message returned from CAS R5 database.
1604	MSC		In	HW	EMT	EMT	EMT	Query to CAS R5 is blocked by the 4ESS switch due to ACG in effect.
1605	MSC		In	HW	EMT	EMT	EMT	Returned query—Unit Data Service message.
1606	MSC		In	HW	EMT	EMT	EMT	Response from the CAS R5 database—TCAP error code.
1607	DSF		In	ROA	CFL	CFL	EMT	An error occurred when processing a DSD-TCAP call that required CVIS services.
1608	DSF		In			EMT	EMT	SDN-RNA sequence dialing call via CVIS—Report only.
1609	DSF		In	ROA	CFL	CFL	EMT	The acceptable digit count for an SDN call using the DCIS6 protocol is incorrect in the call type word.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1610	DSF		In	ROA	CFL	CFL	EMT	The acceptable digit count for a dialed number based call using the DCIS6 protocol in the call type word is incorrect.
1611	DSF		In	ROA	CFL	CFL	EMT	TCAP protocol Abort message was sent or received on a DSD call.
1612	DSF		In	ROA	CFL	CFL	EMT	TCAP user Abort message was sent or received on DSD call.
1613	DSF		In	ROA	CFL	CFL	EMT	Time-out has occurred while processing DSD call using TCAP protocol.
1614	DSF		In	NCA	NTC	CGC	EMT	TCAP message was returned by DLN.
1615	DSF		In	NCA	NTC	CGC	EMT	TCAP message was returned by CNI.
1616	DSF		In	NCA	NTC	CGC	EMT	Unit Data Service message was received.
1617	DSF		In	ROA	CFL	CFL	EMT	Request to disconnect. Final DSD call has been received.
1618	DSF		In	VCA	VNN	VNN	EMT	Routing data received from NCP was incorrect.
1619	DSF		In	ROA	CFL	CFL	EMT	Request for NCP transfer was denied.
1620	DSF		In	ROA	CFL	CFL	EMT	Request was received from NCP that is not recognized by the 4ESS switch.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1621	DSF		In	ROA	CFL	CFL	EMT	While attempting to send TCAP message to database, a buffer overflow condition occurred.
1622	DSF		In	ROA	CFL	CFL	EMT	While attempting to send TCAP message to the database, the stream went down.
1623	DSF		In	ROA	CFL	CFL	EMT	Unexpected parameter was encountered while processing message from database.
1624	ANM		In	NCA	NTC	CGC	EMT	SDN call was controlled by SDN-NOCS initiated ACG.
1625	ANM		In	NCA	NTC	CGC	EMT	SDN call was controlled by database initiated ACG.
1626	ANM		In	NCA	NTC	CGC	EMT	Dialed no service call was controlled by receipt of ACG from database.
1627	ANM		In	NCA	NTC	CGC	EMT	Dialed no service call was controlled due to mass calling.
1628	ANM		In	NCA	NTC	CGC	EMT	Dialed no service call was controlled by NOCS initiated ACG.
1629	DSF		In	ROA	CFL	CFL	EMT	While processing response from database, data was found in error.
1630	DSF		In	ROA	CFL	CFL	EMT	QA protocol error was found while validating TCAP message.
1631	DSF	No	In	ROA	CFL	CFL	EMT	Error occurred when processing DSD-TCAP call that required NSC services.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1632	DSF	No	In	ROA	CFL	CFL	EMT	Maximum number of assists at this switch has been exceeded.
1633	DSF	No	In	ROA	CFL	CFL	EMT	An entry in the IDB Cache Table caused an invalid translation—Call irregularity report only.
1634	DSF	No	In	ROA	CFL	CFL	EMT	AM4SENBUFF was full when processing a DSD call with termination data.
1635	DSF	No	In	ROA	CFL	CFL	EMT	A feature requiring the TCAP protocol was attempted using the DCIS6/CCIS6 protocol.
1636	DSF	No	In	T	CFL	CFL	EMT	Customer not allowed to dial International numbers.
1637	DSF		In	ROA	CFL	CFL	EMT	The acceptable digit count for an SDN call using the TCAP protocol is incorrect in the call type word.
1638	DSF		In	ROA	CFL	CFL	EMT	The acceptable digit count for a dialed number based call using the TCAP protocol is incorrect in the call type word.
1639	DSF		In	ROA	CFL	CFL	EMT	While using CADCR secondary routing number, the call was final handled.
1640	PER		In	T	CFL	CFL	EMT	MAINTSK received MF digits early while in process of sending one or two winks.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1641	PER	FEA	In	T	CFL	CFL	EMT	MAINTSK received mutilated MF digit(s) report for MF receiver.
1642	MAB		In	Idle	CFL	IDM	IDM	MAINTSK received incoming trunk disconnect (abandon) while two STGDR collecting digits.
1643	PHF		In	ROA	NSC	SEC	EMT	DSD or teleconferencing collect calling station ID call failed second attempt to connect MF receiver.
1644	PHF		In	ROA	NSC	SEC	EMT	International originating call hunted a second MF receiver but failed to connect receiver.
1645	PHF		In	ROA	NSC	SEC	EMT	International outbound transport call hunted a second MF receiver but failed to connect receiver.
1646	MSC		In	VCA	VNN	VNN	EMT	International originating call from a non-ISC switch.
1647	PER	FEA	In	ROA	CFL	CFL	EMT	DSD or teleconferencing collect calling station detected mutilated MF digits.
1648	PER	FEA	In	ROA	CFL	CFL	EMT	International outbound transport call detected mutilated MF digits.
1649	PER	FEA	In	ROA	CFL	CFL	EMT	International originating call detected mutilated MF digits.
1650	PST	FEA	In	T	CFL	CFL	EMT	International originating call and two-stage received permanent signal time-out.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1651	PST	FEA	In	T	CFL	CFL	EMT	DSD or teleconferencing collect calling station ID call received a PST.
1652	PST	FEA	In	T	CFL	CFL	EMT	International outbound transport call and two-stage received PST.
1653	PER	FEA	In	ROA	CFL	CFL	EMT	DSD or teleconferencing collect calling station ID call failed to receive a KP digit.
1654	PER	FEA	In	ROA	CFL	CFL	EMT	International outbound transport call failed to receive a KP digit.
1655	PER	FEA	In	ROA	CFL	CFL	EMT	International originating call failed to receive a KP digit.
1656	PDT	FEA	In	T	CFL	CFL	EMT	International originating call two-stage received PDT.
1657	PDT	FEA	In	T	CFL	CFL	EMT	International outbound transport call two-stage received a PDT.
1658	PDT	FEA	In	T	CFL	CFL	EMT	DSD or teleconferencing collect calling station ID call two-stage received a PDT.
1659	PER	FEA	In	IVC	VNN	VNN	EMT	International originating call two-stage received too many digits.
1660	PER	FEA	In	IVC	VNN	VNN	EMT	International outbound transport call two-stage received too many digits.
1661	PER	FEA	In	ROA	CFL	CFL	EMT	DSD or teleconferencing collect calling station ID call two-stage received too many digits.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1662	PER	FEA	In	ROA	CFL	CFL	EMT	International originating call two-stage received a report of illegal digit.
1663	PER	FEA	In	ROA	CFL	CFL	EMT	International outbound transport call two-stage received report of illegal digit.
1664	PER	FEA	In	ROA	CFL	CFL	EMT	DSD or teleconferencing collect calling station ID call two-stage received illegal digits.
1665	PER	FEA	In	ROA	CFL	CFL	EMT	International originating call two-stage received illegal KP+ST report on non-EA call.
1666	PER	FEA	In	ROA				International outbound transport call two-stage received illegal KP+ST report on non-EA call.
1667	PER	FEA	In	ROA	CFL	CFL	EMT	DSD or teleconferencing collect calling station ID call two-stage received an illegal KP+ST report on a non-EA call.
1668	PER	FEA	In	ROA	CFL	CFL	EMT	DSD or teleconferencing collect calling station ID call two-stage did not collect 10 digits for CSI.
1669	PER	FEA	In	ROA				Two-stage EA call at an Access Tandem detected a mutilated digit.
1670	PER	FEA	In	T				Two-stage EA call at an Access Tandem received permanent signal time-out during ANI digits.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1671	PDT	FEA	In	T				Two-stage EA call at an Access Tandem received partial dial time-out while receiving II + ANI digits.
1672	PER	FEA	In	ROA				Two-stage EA call at an Access Tandem received no KP digit in either ANI sequence or address digits.
1673	PER	FEA	In	ROA				Two-stage EA call at an Access Tandem and II + ANI or address digits exceeded maximum number.
1674	PER	FEA	In	ROA				Two-stage EA call at an Access Tandem detected illegal MF digit.
1675	PER	FEA	In	ROA				Two-stage EA call at an Access Tandem detected KP+ST address digits.
1676	PER	FEA	In	ROA				Two-stage EA call at Access Tandem detected address digits exceeding 18 digits.
1677	PHF		In	ROA				Two-stage EA call at an Access Tandem hunted an MF receiver but failed to connect.
1678	PER	FEA	In	ROA				Two-stage EA call received and the number of II + ANI digits was not 5 or 12.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1679	PST	FEA	In	T				Two-stage EA call at an Access Tandem received permanent signal time-out during address digits.
1680	PDT	FEA	In	T				Two-stage EA call at an Access Tandem received partial dial time-out while receiving address digits.
1681	PHF		In	ROA				Traditional two-stage call at an Access Tandem hunted an MF receiver but failed to connect.
1682	PER	FEA	In	ROA				Traditional two-stage call at an Access Tandem received no KP digit with the address digits.
1683	PER	FEA	In	ROA				Traditional two-stage call at an Access Tandem received too many address digits.
1684	PER	FEA	In	ROA				Traditional two-stage call at an Access Tandem detected on illegal MF digit.
1685	PER	FEA	In	ROA				Traditional two-stage call at an Access Tandem detected illegal KP+ST address digits.
1686	VAC		In	VCA				Traditional two-stage call at an Access Tandem detected unassigned Country Code or Psuedo Country Code.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1687	PER	FEA	In	ROA				Traditional two-stage call at an Access Tandem detected an invalid digit count of less than 3 digits.
1688	PER	FEA	In	ROA				Traditional two-stage call at an Access Tandem detected a mutilated MF digit.
1689	PST	FEA	In	T				Traditional two-stage call at an Access Tandem received a permanent signal time-out.
1690	PDT	FEA	In	T				Traditional two-stage call at an Access Tandem received a partial dial time-out.
1697	DSF		In	NCA	NTC	CGC	EMT	The second query to the Universal Global Title Translations (UGTT) Database (DB) has failed due to Subsystem Number (SSN) or Signaling Point Code (SPC) congestion.
1698	DSF		In	NCA	NTC	CGC	EMT	The second attempt to query the Software Defined Network (SDN) database using information from the UGTT has failed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1699	ANM		In	NCA	NTC	CGC	EMT	The second attempt to query the UGTT DB has been controlled by an ACG control.
1700	DSF		In	T	CFL	CFL	EMT	UGTT DB contains no valid data for this ANI/NPT.
1701	DSF		In	T	CFL	EMT	EMT	The first attempt to query the UGTT DB was controlled by an ACG control—call irregularity only.
1702	DSF		In	T	CFL	EMT	EMT	No GTT data was found in either the DLN or the cache table. Query the UGTT DB for information — call irregularity only.
1703	VAC		In	VCA	VNN	EMT	EMT	ISUP direct connect (PBX) phase zero illegal call.
1704	BNF		In	ROA		CFL		For incoming CCS7 ISUP SSP call, ISUP DIRE checks ANI digit count and found it was neither 3 nor 10—4E12 requirements have SSP switch kill such calls.
1705	VAC		In	VCA		VNN		Seven digit domestic switched access (EA) ISUP incoming SDN call did not receive at least NPA ANI.
1706	MSC		In	VCA		UBC		ISUP EA INTL Call, bearer capability of 64R is illegal.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1707	BNF		In	ROA		CFL		Incoming ISUP EA call—translations found unexpected OLI.
1708	BNF		In	ROA		CFL		On an incoming EA ISUP call, OLI translations found incomplete ANI. Use ANI fail action from ICT FEN block.
1709	BNF		In					On an incoming EA ISUP call, OLI translations found an incomplete ANI. ANI fail action from ICT FEN block is routed and recorded.
1710	VAC		In	VCA		VNN		An illegal SSP subtype for Equal Access (EA) SSP call on ISDN User Part (ISUP) Incoming Trunk (ICT).
1711	PER		In	VCA		VNN		Digit count is out of range on an EA SSP ISUP call.
1712	PER		In	VCA		VNN		The digit count is out of service at Access Tandem on ISUP ICT.
1713	MSC		In	VCA		UCA		Translations determined the Carrier ID (CID) is illegal for this switch to receive.
1715	MSC		In	VCA		ICD		An illegal TNS on ISUP ICT dedicated to SDN was received.

Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1716	MSC		In	VCA		ICD		The trunk is dedicated to SDN. OLI is required but not received.
1717	VAC		Out	VCA	VNN	VNN	EMT	EAMF or traditional International two-stage, where OGT is ISUP. The second state that was collected failed one of several cross checks.
1718	VAC		In	VCA		VNN		Handling an ISUP EA incoming call— a 3-digit ANI and a 7-digit address were received but the NPA of the calling party was not in the NPA table.
1719	VAC		In	VCA	VNN	VNN	EMT	A 7-digit domestic switched access (EA) incoming SDN call that has an NPA from ANI which is not recognized as a home or a served NPA.
1720	VAC		In	VCA		VNN		ISUP network interconnect found invalid Number Services Data Block (NDB) information while translating CID and TNS info in the ATNS(*) domain.
1721	VAC		In	VCA		VNN		The ISUP network interconnect found an invalid type of call type word while translating CID and TNS info in the ATNS domain.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1722	VAC		In	VCA		VNN		The ISUP interconnect found an invalid subtype in an SSP call type while translating CID and TNS info in the ATNS domain.
1723	VAC		In	VCA		VNN		The ISUP network interconnect has found a vacant code call type word while translating CID and TNS info in the ATNS domain.
1724	MSC		In					Two-state ANI digit collection requested on an LCC, OCC or ETC trunk.
1725	FTF		Out	ROA	CFL	CFL	EMT	The final attempt to communicate with the adjunct has failed. The Common Platform Adjunct data table said to final handle the call.
1726	MSC		In	ROA	CFL	CFL	EMT	An invalid controller was encountered when a Disconnect or Release Complete message was received from the Common Platform Adjunct B1 trunk.
1727	MSC		In	ROA	CFL	CFL	EMT	A logical address from the adjunct Billing Number Trigger Table was found but an invalid application type was encountered.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1728	DSF		In	NCA	NTC	CGC	EMT	A bad Universal Global Title Translation (UGTT) state was discovered in the CHECK_UGTT_CACHE routine.
1729	MSC		In				DISC	Q.931 LEC switched digital service—RTE transit network.
1730	MSC		In	NCC	EMT	EMT	EMT	Q.931 LEC switched digital service—specified (Setup message) CID has no route to transit network.
1731	MSC		In	NCC	EMT	EMT	EMT	Q.931 LEC switched digital service—prescribed (TSG) CID has no route to transit network.
1732	VAC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID. Called number type was unassigned or invalid.
1733	VAC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID. Called number type was unassigned or invalid.
1734	MSC		In	NCC	EMT	EMT	EMT	Q.931 LEC switched digital service—the specified (Setup message) CID was either unassigned or invalid.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1735	MSC		In	NCC	EMT	EMT	EMT	Q.931 LEC switched digital service—the presubscribed (TSG) CID was either unassigned or invalid.
1736	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for intra-LATA calls and the called number type was for an inter-LATA call.
1737	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for intra-LATA calls and the called number type was for an inter-LATA call.
1738	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for intra-LATA calls and called number type was for an international call.
1739	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for intra-LATA calls and the called number type is for an international call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1740	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for inter-LATA calls and the called number type is for an intra-LATA call.
1741	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for inter-LATA calls and the called number type is for an intra-LATA call.
1742	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for inter-LATA calls and the called number type was for an international call.
1743	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for inter-LATA calls and the called number type is for an international call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1744	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for combined intra-LATA or inter-LATA calls, and the called number type was for an international call.
1745	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for combined intra-LATA or inter-LATA calls, and the called number type was for an international call.
1746	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for international calls, and the called number type was for an intra-LATA call.
1747	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for international calls, and the called number type was for an intra-LATA call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1748	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for international calls, and the called number type was for an inter-LATA call.
1749	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for international calls, and the called number type was for an inter-LATA call.
1750	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for combined inter-LATA or INTL calls, and the called number type was for an intra-LATA call.
1751	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for combined inter-LATA or INTL calls, and the called number type was for an intra-LATA call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1752	MSC		In				DISC NRTE	Q.931 LEC switched digital service—specified CID was designated for SSP LEC calls, and the called number type was for a nonintra-LATA or non-LEC call.
1753	MSC		In				DISC NRTE	Q.931 LEC switched digital service—presubscribed CID was designated for SSP LEC calls, and the called number type was for a nonintra-LATA or non-LEC call.
1758	VAC		In				DISC NRTE	Q.931 LEC switched digital service—translated the called number type no route to destination (non-RDB call type).
1759	VAC		In				DISC NRTE	Q.931 LEC switched digital service—called number type translation failure (unable to obtain the CDNT from the Vacant Code call type word when translating the called number digits in the DAVAT domain).

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1760	MSC		In				DISC NRTE	Q.931 LEC switched digital service—illegal number plan type specified (something other than North America or International).
1761	MSC		In					No CR queue slots available.
1762	MSC		In					ICT cannot be used since it is maintenance busy.
1763	MSC		In					The IAM contained an invalid address.
1764	MSC		In					The IAM contained an invalid transmission medium requirement parameter.
1765	MSC		In					An echo suppressor was used on a data call.
1766	MSC		In					CUG required on a nontransit call.
1767	MSC		In					Invalid USI parameter.
1768	MSC		In					ICT could not set up a 4-wire VPA loop.
1769	CKF		In					COT failure message received while call on queue for a CR.
1770	CKF		In	HW	HW NIA	HW NIA	HW NIR	COT failure message received during call setup.
1771	IUR		In					Unexpected COT message received.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1772	MSC		In					ICT has received a COT message and can complete final handling.
1773	CKF		In					ICT timed out waiting for a COT message.
1774	MSC		In					No CRS available for a continuity check request (CCR).
1775	MSC		In					ICT could not send the ADC message because the transfer buffer was full.
1776	MSC		In					ICT could not send the ADC message because the CNI ring was down.
1777	MSC		In					ADC message returned while the call was being set up.
1778	MSC		In					ADC message returned on a stable call.
1779	MSC		In					Continuity Check Request (CCR) test timed out waiting for a Release message.
1780	IUR		In					Release message received on an idle trunk.
1781	MAB		In					Release message received while call on queue for a CR.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1782	MAB		In					Release message received during call setup.
1783	MSC		In					ICT timed out waiting for a Release or Reanswer message.
1784	MAB		In					Reset message received while call on queue for a CR.
1785	MAB		In					Reset message received while the call is being setup.
1786	MAB		In					Group Reset message received while call on queue for a CR.
1787	MAB		In					Reset message received while the call is being setup.
1788	IUR		In					Invalid or Out of Sequence message received on an idle trunk or while a call is on queue for a CR.
1789	MSC		In					Invalid or Out of Sequence message received during call setup.
1790	MSC		In					A VPN service parameter was not received on a GSDN call.
1791	MAB		In	HW	RLG	RLC	RELCOM	A Release message was received during setup, without cause parameter.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1792	MSC		In	VCA	VNN	EMT	EMT	Call identified as being from a Resale Carrier, received II or OLI that is not valid for resale.
1793	MSC		In	VCA	VNN	EMT	EMT	Call identified as being for a Resale Carrier, also requires operator assistance - not allowed.
1794	MSC		In	VCA			SUN	Call identified as being for a Resale Carrier and data call - not allowed.
1795	MSC		In	VCA	VNN	EMT	EMT	Call identified as being for a Resale Carrier has bad NPA, bad Country Code (4E23 and Later) or is denied as a Directory Assistance call.
1796	MSC		In	BT	FC_BT	FC_BT	EMT	Translating the stored routing number for a CIC based resale call which was to a directory assistance number and failed to provide the normal routing when translated the stored routing number.
1797	MSC	COP	Out					First trial failure - No offhook (ANI request) was received from an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk. This OGT and transmitter will be idled and the call attempted on another OGT.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1798	MSC	PSE	Out			EMT	EMT	First trial failure - received MF transmitter error report while trying to transmit the ANI on an MF Wink-Start CAMA-ANI Outgoing (4XLTOTCMA) kind of trunk. This OGT and MF Transmitter will be idled and the call attempted on another OGT.
1799	MSC	COP	Out					First trial failure - received unexpected on-hook from OGT while trying to transmit the ANI on an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk. This OGT and MF Transmitter will be idled and call attempted on another OGT.
1800	MSC		Out					Received a 911 call on a PBX Trunk, but either the LANI was not provisioned on the FEOFC (Far End Office Code) was not provisioned, or neither was provisioned -- Call Irregularity Report only, call not finaled.
1801	MSC		Out	VCA	VNN	EMT	EMT	Received a 911 call on a PBX TSG and constructed the routing number (911+FENPA+FEOFC+0 or 911+FENPA+0000 if FEOFC blank). Tried to translate in POTS domain but no good.
1802	MSC		Out	VCA	VNN	EMT	EMT	Received a 911 data call on a PBX TSG.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1803	MSC	COP	Out	ROA	CFL	CFL	EMT	Second trial failure (final trial) - no offhook (ANI request) was received from an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk.
1804	FTF	PSE	Out	ROA	CFL	CFL	EMT	Second trial failure (final trial) received MF Transmitter error report while trying to transmit the ANI on an MF-Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk.
1805	MSC	COP	Out	ROA	CFL	CFL	EMT	Second trial failure (final trial) - Received unexpected on-hook from OGT while trying to transmit the ANI on an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk.
1806	MSC		Out	VCA	VNN	EMT	EMT	In Receiving digits on a local NODAL PBX TSG, a dial-around (carrier ID) was received followed by 0+/0-/01+ (for 0+, 911 was not received) or the DAC was received and a North American INWATT (8YY) number was detected.
1807	MSC		Out	ROA	CFL	CFL	EMT	Received a dial around code but failed to query either the SD or 2DSA.
1808	DSF		Out	ROA	CFL	CFL	EMT	Received a dial-around-code but failed to receive a reply from the SD or 2DSA.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1809	DSF		Out	ROA	CFL	CFL	EMT	An error occurred on a dial-around (carrier ID, 101XXXX) SDN/PCP call that resulted in an attempt to default route and record the call. Dial-around calls are not allowed to be default routed and recorded. The call will be killed.
1810	PSE		In			EMT	EMT	MAINDSPN found report from CCITT #5 ICT with KP digit arriving too soon.
1811	MSC		In	VCA	VNN	EMT	EMT	Feature 7285 specifies that certain resell calls be subjected to a new screening via the II/OLI translation process. This call was subjected to that extra screening and blocked (final handled) because of it.
1812	MSC		In			EMT	EMT	Default ERPI used on an incoming ECOS voice call and the SII is non-zero. Report only call irregularity.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1813	MSC		In			EMT	EMT	Default ERPI used on an outgoing ECOS voice call and the SII is non-zero. Report only call irregularity.
1814	MSC		In	VCA	VNN	EMT	EMT	For an AT&T Digital link phase five call on an LCC type of ISUP trunk for which FEALN is true, received a called party number nature of address set to APN but did not receive an SDN phase 5 OLI. Call will be killed.
1815	VAC		In					Bad data input to digit reception routine for an INUP call
1816	VAC		In					Illegal call type for an inbound call on INUP trunk.
1817	PER		In					Illegal digit received on an INUP trunk for an inbound call.
1818	PER		In					Digit count not in acceptable range for an inbound INUP call.
1819	PER		In					Unacceptable digit count for call type returned from translations on INUP inbound call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1820	VAC		In					Invalid inbound test call on an INUP trunk.
1821	MSC		In	T			REJ	Incoming call from another Interexchange Carrier is rejected as it's a data call.
1822	MSC		In	T			REJ	Incoming call from another Interexchange Carrier is rejected as it's an operator call.
1823	MSC		In	T			REJ	Incoming call from another Interexchange Carrier is rejected as call will not be allowed for this area/ABC digit (3-digit type is set.)
1824	MSC		In	T			REJ	Incoming call from another Interexchange Carrier is rejected as c-bit is not set and ascit question is no.
1825	MSC		In	T			REJ	Carrier Interconnect call is killed because th result of an LNP query only received an LRN (required to receive TSAA NSN) for the Carrier Interconnections feature 5569.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1828	MSC		Out					The ATP node passes facility Disable message to the Q931. The messages might come with validation key and user entered code information.
1829	MAQ		Out	ROA	CFL	CFL	EMT	INUP outgoing trunk received a Release message before Address Complete message with no cause parameter specified.
1830	MSC		Out					OGT fails to reserve a network path to the ICT—rehunts another OGT.
1831	MSC		Out					OGT fails to reserve a network path to the ICT—final try.
1832	SGT		Out					OGT can not send an IAM message—rehunts another OGT.
1833	SGT		Out					OGT can not send an IAM message because the transfer buffer is full.
1834	SGT		Out					OGT can not send an IAM message because the CNI ring is down.
1835	GLR		Out					OGT receives an IAM message. Far end controls—rehunts another OGT.
1836	GLR		Out					OGT receives an IAM message. Far end controls—second try.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1837	GLC		Out					OGT receives an IAM message. We control.
1838	MSC		Out					IAM message is returned—rehunts another OGT.
1839	MSC		Out					IAM message is returned—final try.
1840	MSC		Out					OGT fails to find a transceiver.
1841	PHF		Out					OGT fails to connect to its transceiver —rehunts another OGT.
1842	PHF		Out					OGT fails to connect to its transceiver—second try.
1843	CKF		Out					OGT VPA test fails—rehunts another OGT.
1844	CKF		Out	ROA	CFL	CFL	EMT	Outgoing trunk VPA test fails on second try.
1845	SGT		Out					Can not send the COT message because the transfer buffer is full.
1846	SGT		Out					Can not send the COT message because the CNI ring is down.
1847	SGT		Out					COT message returns during setup—rehunts another OGT.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1848	SGT		Out					COT message returns during setup—second try.
1851	GLR		Out					OGT receives an IAM. CCR test backs down.
1852	GLR		Out					OGT receives a CCR while running a CCR test.
1853	MSC		Out					CCR message returns.
1854	MSC		Out					Timeout waiting for an ADC message.
1855	BFL		Out					OGT receives a BLO message during setup —rehunts another OGT.
1856	SGT		Out					OGT receives a BLO message during setup—second try.
1857	URS		Out					OGT receives an invalid or Out of Sequence message—rehunts another OGT.
1858	URS		Out					OGT receives an invalid or Out of Sequence message —second try.
1859	VAC		Out					OGT receives a REL message during call setup with the cause indicating unallocated number.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1860	MSC		Out					OGT receives a REL message during call setup with the cause indicating no route to destination.
1861	EBF		Out					OGT receives a REL message during call setup with the cause indicating user busy.
1862	MSC		Out					OGT receives a REL message during call setup with the cause indicating no user responding.
1863	MSC		Out					OGT receives a REL message during call setup with the cause indicating no answer from user.
1864	MSC		Out					OGT receives a REL message during call setup with the cause indicating call rejected.
1865	MSC		Out					OGT receives a REL message during call setup with the cause indicating number changed.
1866	MSC		Out					OGT receives a REL message during call setup with the cause indicating destination out of order.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1867	ADF		Out					OGT receives a REL message during call setup with the cause indicating address incomplete.
1868	NCS		Out					OGT receives a REL message during call setup with the cause indicating no circuit available.
1869	MSC		Out					OGT receives a REL message during call setup with the cause indicating network out of order.
1870	CFL		Out					OGT receives a REL message during call setup with the cause indicating temporary failure.
1871	MSC		Out					OGT receives a REL message during call setup with the cause indicating switching equipment congestion.
1872	MSC		Out					OGT receives a REL message during call setup with the cause indicating requested channel not available.
1873	MSC		Out					OGT receives a REL message during call setup with the cause indicating USI not authorized.

Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1874	MSC		Out					OGT receives a REL message during call setup with the cause indicating USI not available.
1875	MSC		Out					OGT receives a REL message during call setup with the cause indicating USI not implemented.
1876	MSC		Out					OGT receives a REL message during call setup with the cause indicating incompatible destination.
1877	MSC		Out					OGT receives a REL message during call setup with the cause indicating normal (unspecified).
1878	MSC		Out					OGT receives a REL message during call setup with the cause indicating resources unavailable (unspecified).
1879	MSC		Out					OGT receives a REL message during call setup with the cause indicating service option not available (unspecified).

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1880	MSC		Out					OGT receives a REL message during call setup with the cause indicating service option not implemented (unspecified).
1881	MSC		Out					OGT receives a REL message during call setup with the cause indicating invalid message (unspecified).
1882	MSC		Out					OGT receives a REL message during call setup with the cause indicating protocol error (unspecified).
1883	MSC		Out					OGT receives a REL message during call setup indicating interworking (unspecified).
1886	MSC		Out	Idle	CLF	RLC	RELCOM	OGT receives a REL message after call setup with the cause indicating switching equipment congestion.
1887	FSO		Out					OGT times out waiting for a Release or Reanswer message.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1888	MSC		Out	VCA	EMT	ICD	EMT	In a transit call. The CUG parameter cannot be stored due to CUG not available.
1889	MSC		Out	IVC	ADI	ADI	EMT	Outgoing trunk can not send IAM because called number contains more than 17 digits.
1891	VAC		In					INUP OGT detects an unsupported 1536 kb/s broadband call.
1892	MSC		Out					INUP OGT receives an RLC message during setup of a broadband call.
1893	MSC		Out					INUP OGT receives an unexpected message during setup of a broadband call.
1894	MSC		Out					INUP OGT receives an RLC during talking (stable) state of a broadband call.
1895	MSC		Out					INUP OGT waits for ANS; timer expires during setup of a broadband call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1896	MSC		Out					INUP OGT receives a REL message during setup of a broadband call.
1897	GLR		Out					OGT receives a broadband IAM message—far end controls.
1902	VAC		In	VCA		NORM_UNSPEC		The call was received on an LSP-LOCAL MF or ISUP incoming trunk, and for ISUP, the FCI M-BIT received was set, digits translations of the received called number revealed a vacant code and the number was not in the Local Exchange Routing Guide (LERG) table.
1903	MSC		Out	VCA	VNN	EMT	EMT	An AT&T Network Connections (ANC - formerly called RESELL) call was detected to have received a carrier selection indicator showing the caller dialed the carrier code translator contains data causing the switch to block the call.
1904	MSC		Out	VCA	VNN	EMT	EMT	A call identified as an ANC (AT&T Network Connections) NANP data structures involved call tried to create the PSEUDO-TRUE-BN as per FSD 7323 and the subsequent translate to TRUE-BN and OSPSID failed. As this call is to the 700 NPA, it is being killed with vacant code treatment.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1913	DSF		In	IVC	VNN	EMT	EMT	AIN — Call attempts to serial trigger to AIN SCP more than the allowed number of allowed number of times causing the call to be killed
1914	DSF		In	IVC	VNN	EMT	EMT	AIN — the database requested the switch redirect the call and the redirection would cause the 4ESS switch to exceed the redirection limit.
1915	DSF		In			EMT	EMT	AIN — the AIN SCP indicated a carrier which had all circuits busy. The SSP attempts another carrier route. This is a call irregularity report only.
1916	MSC		In	VCA	ADI	ADI	EMT	PNG should be outpulsed as called number, but ISUP determined PNG was incorrectly formatted.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1917	MSC		In	VCA	ADI	ADI	EMT	Invalid digit count on a LEC LNP non-pots call should be 10.
1918	MSC		In	VCA	VNN	EMT	EMT	Received Integrated Services User Part (ISUP) or Message Forwarder (MF) Controller Interface Circuit (CIC) calls are blocked per translation.
1922	MSC		In	HW		NIR		Circuit Reservation Acknowledgement message could not be sent on an ISUP Incoming Trunk ICT) because the Common Network Interface (CNI) buffers are full.
1923	MSC		In	HW		UNA		Circuit Reservation Acknowledgement message could not be sent on an ISUP ICT because the CNI ring was down.
1924	PER		In	VCA		UNA		ISUP Initial Address Message (IAM) contained an invalid called party number nature of address.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1925	MSC		In	ROA		RSC		ISUP Incoming Trunk (ICT) was on queue for a Call Register (CR) when a Circuit Reservation message was received.
1926	IUR		In	Idle		RLS		Unexpected Continuity (COT) message received while processing CRM.
1927	PER		In	Idle		RLS		ISUP IAM contained an invalid numbering plan for test call in called party number.
1928	IUR		In	Idle		RLS		Circuit Reservation message received on an idle ISUP ICT but type of trunk is invalid.
1929	MSC		In	Idle		RLS		ISUP ICT timed out while waiting for IAM when CRM already received and processed.
1930	MSC		In	Idle		RLS		Circuit Reservation Msg. received on ISUP ICT and IAM contains BC indicating a BBC call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1931	MSC		In	HW		NIR		A Circuit Reservation Acknowledgement message was received while an ISUP ICT call was busy to a CR.
1932	MSC		In	VCA		UCK		An SSD message could not be sent on an ISUP ICT because at network interconnect boundary and TOT is invalid.
1933	CKF		In	HW		HW_NIA		COT failed on an ISUP ICT at an Access Tandem; was waiting for COT.
1934	CKF		In	ROA		CLF		ISUP ICT at an Access Tandem timed out while waiting for COT.
1935	PER		In					ISUP IAM contained an invalid called party number nature of address.
1938	MSC		In	ROA		PARM		Invalid network ID received in Transit Network Selection (TNS) parameter.
1939	MSC		In			INV		The received number of CID digits does not match the allowed number of CID digits in the TSG.
1940	MSC		In	ROA		PARM		Received invalid number of carrier ID digits defined by Network Identification Plan.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1941	MSC		In	VCA		SERV NAVAIL		A transit network selection (TNS) parameter was received for a call from an IXC
1942	VAC		In	IVC	VNN	EMT	EMT	The DIRESUBS in retranslating for the TNR call failed to obtain routing.
1943	MSC		Out	ROA	SEC	SEC	EMT	ISUP OGT had a CRM returned to it and decided not to retry.
1944	SGT		Out					ISUP OGT had a CRM returned to it and decided not to retry.
1947	MSC		Out					The ISUP OGT handler times out waiting for CRA.
1948	URS		Out					ISUP OGT handler received an Out-of-Order or Irregular message after sending CRM; will retry.
1949	URS		Out	IFF	CFL	CFL	EMT	GRS was received by ISUP OGT handler while in CRM setup for retry.
1950	URS		Out	IFF	CFL	CFL	EMT	GRS received by ISUP OGT handler while waiting for two-stage digit acceptance.
1951	MSC		Out	IFF	CFL	CFL	EMT	ISUP OGT has been selected to send CRM on a trunk that does not have OCC type of trunk.
1953	MSC		Out	ROA	CFL	CFL	EMT	A REL or RSC message was received at the ISUP OGT during CRM handling in a retry.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1954	URS		Out	ROA	CFL	CFL	EMT	An RSC was received by ISUP OGT while waiting for digit reception.
1955	GLR		Out	ROA	SEC	SEC	EMT	CRM was received at ISUP OGT. CCR test will stop to process the CRM.
1956	GLC		Out					ISUP OGT handler received IAM after sending CRM and this switch has control.
1957	GLR		Out	ROA	CFL	CFL	EMT	ISUP OGT handler received IAM after sending CRM in a retry—the other switch controls.
1958	GLR		Out					ISUP OGT handler received IAM after sending CRM—the other switch controls so we retry.
1959	GLR		Out	ROA	CFL	CFL	EMT	ISUP OGT handler received CRM after sending IAM in a retry. The other switch controls.
1960	GLC		Out					ISUP OGT handler received CRM after sending IAM, and this switch has control.
1961	GLR		Out					ISUP OGT handler received CRM after sending IAM. The other switch has control so we retry.
1962	BNF		Out	ROA	CFL	RUN	EMT	ISUP OGT timed out while waiting for ANI.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1963	GLR		Out	ROA	CFL	CFL	EMT	An IAM message was received by ISUP OGT while waiting for ANI.
1964	GLR		Out	ROA	CFL	CFL	EMT	A CRM message was received by ISUP OGT while waiting for ANI.
1967	BNF		Out	ROA	CFL	RUN	EMT	ISUP OGT could not get ANI for a call that needs it.
1968	BFL		Out	ROA	CFL	CFL	EMT	Blocking message received while waiting for ANI.
1969	MSC		Out	ROA	CFL	CFL	EMT	The ISUP OGT handler times out waiting for CRA; this was a retry.
1970	URS		Out	ROA	CFL	CFL	EMT	ISUP OGT handler received an Out-of-Order or Irregular message after sending CRM on a retry.
1971	MSC		Out			IDM	IDM	ISUP OGT handler was invoked to send CRM for a BBC call.
1972	MSC		Out	VCA		ICD		The CUG parameter in the IAM message cannot be stored.
1973	MSC		Out	VCA		NCUG		Transit call with CUG indication which cannot be passed via TUP.
1974	MSC		Out					ATP Disable message is received from ATP node while busy to CR

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1975	DSF		In	H&W	H&W	RLS	Disc_ Unkn	A request to disconnect and final a SDN-NRA subsequent call has been received.
1976	MSC		In	VCA	VNN	EMT	EMT	The call has been default handled during SD processing and the only call type available indicates query an NCP. Switch is not allowed to do so, call is killed.
1977	CKF							ISUP OGT requested a no-loopback continuity check test (CCK) which has failed, without a test requested loopback at the far end, a tone has been received indicating the presence of the pre-test loopback plug. A rehunt will not be performed and the call will be final handled.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1978	CKF							Integrated Services User Part (ISUP) Outgoing Trunk (OGT) requested a no-loopback continuity check (CCK) which has failed. Without a test requested loopback at the far end, a tone has been received indicating the presence of the pre-test loopback plug. An advanced route rehunt will be performed to select another circuit.
1979	MSC		Out	AR	SSB	Pass_Cause	Pass_Cause	The ISUP OGT handler received a Backward Failure Release in a LEC call indicating that audible ringing should be played.
1980	ADF		Out	VCA	VNN	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in a domestic call. VCA treatment.
1981	CFL		Out	T	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in a domestic call. Reorder tone treatment.
1982	EBF		Out	BT	SSB	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in a domestic call. Busy tone treatment.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1983	CFL		Out	ROA	CFL	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Failure Release in a domestic call. ROA treatment.
1984	MSC		Out	NCA	NTC	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Failure Release in a domestic call. NCAT treatment.
1985	ADF		Out	IVC	VNN	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Failure Release in a transit call. VCA treatment.
1987	MSC		Out	BT	SSB	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Failure Release in a transit call. Busy tone treatment.
1988	CFL		Out	ROA	CFL	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Failure Release in a transit call. ROA treatment.
1989	NCS		Out	INC	NTC	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Failure Release in a transit call. NCA treatment.
1990	ADF		Out	IVC	VNN	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Failure Release in an INTL outgoing call. IUC treatment.
1991	CFL		Out	ROA	CFL	Pass_ Cause	Pass_ Cause	ISUP OGT handler received a Backward Failure Release in an INTL call. ROA treatment.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1992	EBF		Out	BT	SSB	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in an INTL call. Busy tone treatment.
1993	CFL		Out	IFF	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in an INTL call. IFF treatment.
1994	MSC		Out	INC	NTC	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in an INTL call. INC treatment.
1995	ADF		Out	IVC	VNN	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in an INTL outbound overflow call. INC treatment.
1996	CFL		Out	ROA	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in an INTL outbound overflow call. ORA treatment.
1997	MSC		Out	BT	SSB	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in an INTL outbound overflow call. Busy tone treatment.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
1998	CFL		Out	IFF	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in an INTL outbound overflow call. IFF treatment.
1999	MSC		Out	INC	NTC	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure Release in an INTL outbound overflow call. INC treatment.
2000	CFL		Out	ROA	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure release in a domestic call — ROA treatment.
2001	CFL		Out	ROA	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure release in a domestic call — ROA treatment.
2002	CFL		Out	ROA	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure release in an INTL call — ROA treatment.
2003	CFL		Out	ROA	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure release in an INTL outbound overflow call — ROA treatment.
2004	CFL		Out	IFF	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure release in an INTL call — IFF treatment.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2005	CFL		Out	IFF	CFL	Pass_Cause	Pass_Cause	ISUP OGT handler received a Backward Failure release in an INTL outbound overflow call — IFF treatment.
2006	MSC		Out	ROA	PDT	EBC	EMT	An egress busy crankback (EBCBK) was received at a via switch. Send an EBCBK to originating toll switch
2007	MSC		Out			EMT	EMT	A Call Progress message with excessive delay was received by ISUPOGT
2008	MSC		Out			EMT	EMT	An Address Complete message with excessive delay was received by ISUPOGT
2009	MAB		Out	ROA	CFL	CFL	EMT	ISUP OGT handler received a Backward Release message without a cause parameter.
2010	BNF		In			EMT	EMT	An invalid NPA detected in EA ANI digits.
2011	CFL		Out	T	CFL	Pass_Cause	Pass_Cause	The ISUP OGT handler received a Backward Failure Release message in a domestic call, and the coding standard was invalid; reorder tone treatment.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2013	IKF		In	IVC	VNN	EMT	EMT	AIN—invalid office data detected in AIN CNT structure. Detected by translation when the CTW in an AIN trigger is not SSP with subtype SIAQ on an incoming AIN call.
2014	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—a User-Abort message was received or sent on an AIN call using TCAP signaling.
2015	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—Protocol Abort message sent or received on a call using the TCAP protocol.
2016	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—an application error occurred on an AIN call using TCAP to communicate with the SCP.
2017	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—initial query was returned as Unit Data Service (UDS) message due to transport problems.
2018	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—initial query returned by the DLN.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2019	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—initial query returned by CNI.
2020	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—timed out while waiting for a response from the Service Control Point (SCP) database.
2021	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—a request was received from the SCP database to final handle this AIN call.
2022	DSF		In	IVC	VNN	EMT	EMT	AIN TCAP—the SCP sent a request to the 4ESS switch (SSP) to play an announcement which is not equipped on the AIN SCS frame.
2023	VAC		In	IVC	VNN	EMT	EMT	AIN TCAP—while attempting to route an AIN call using NSR, an invalid call type was detected.
2024	DSF		In	ROA	CFL	CFL	EMT	AIN TCAP—while processing a TCAP response from the SCP, an invalid operation was detected.
2025	DSF		In	ROA	CFL	CFL	EMT	AIN TCAP—failed to send an AIN TCAP initial query due to CNI send buffer overflow.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2026	DSF		In	ROA	CFL	CFL	EMT	AIN TCAP—stream down condition detected while attempting to send message to SCP database.
2027	MNM		In	NCA	NTC	CGC	EMT	AIN TCAP—call encountered AIN SOCC controls prior to sending a query to the SCP database.
2028	ANM		In	NCA	NTC	CGC	EMT	AIN TCAP—AIN call killed prior to SCP query due to NM controls with cause SCP overload.
2029	DSF		In	ROA	CFL	CFL	EMT	AIN TCAP—while processing a TCAP message from the SCP, a protocol error is detected.
2030	DSF		In	ROA	CFL	CFL	EMT	AIN TCAP—bad data is detected in TCAP parameter received from the SCP.
2031	VAC		In	IVC	VNN	EMT	EMT	AIN—AIN call attempted at switch that has not purchased the AIN feature.
2032	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN Before an Initial Database Query (BIQ) Data Call (DAC)—an illegal condition no CID information available).

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2033	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN Before an Initial Database Query (BIQ)—illegal SSP AIN subtype (no CID information available).
2034	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN Before an Initial Database Query (BIQ)—illegal SSP AIN subtype (CID information is available).
2035	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN Before an Initial Database Query (BIQ)—illegal SSP AIN subtype (CID information available).
2036	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN After an Initial Database Query (AIQ)—illegal SSP AIN subtype.
2037	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN Before an Initial Database Query (BIQ)—an illegal call type was determined while analyzing the called party number.
2038	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN Before an Initial Database Query (BIQ)—while analyzing the called party number, no AIN triggers were encountered for a Routing Data Block call type.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2039	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN Before an Initial Database Query (BIQ)—no II or OLI parameter exists for an Analyze II OLI AIN subtype.
2040	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN Before an Initial Database Query (BIQ)—the II or OLI parameter does not correspond to an AIN call for an Analyze II OLI AIN subtype.
2041	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN after an Initial Database Query (AIQ). An illegal call type was determined while analyzing the called party number.
2042	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN after an Initial Database Query (AIQ). Unable to retranslate in POTS domain (there are no routing digits to translate).
2043	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN after an Initial Database Query (AIQ) and retranslating digits. An illegal AIN trigger type was determined.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2044	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN after an Initial Database Query (AIQ) and retranslating digits from the database. The same exact AIN called number trigger (which is invalid) was determined.
2045	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN After an Initial Database Query (AIQ)—unacceptable routing digit count received.
2046	MSC		In	ROA	PDT	EMT	EMT	Digit Reception (DR) LEC AIN After an Initial Database Query (AIQ)—translated the SSP information digits as non-NSR and the call type was nondeterminant.
2047	DSF		In	—	—	EMT	EMT	AIN TCAP—nonfatal exception occurred on a call using AIN TCAP call irregularity report only).
2048	QPE		In	—	—	—	ATP	ATP ICT (P2) received "CLEAR_OGT_WAIT" Subtype Facility message—the ATP incoming trunk was busy to CR.
2049	QPE		In	—	—	—	ATP	ATP ICT (P2) received "CLEAR_OGT_WAIT" Subtype Facility message while P2 was on queue for CR.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2050	QPE		In				ATP	ATP ICT (P2) received "CLEAR_OGT_WAIT" Subtype Facility message while P2 was system integrity confused.
2051	QPE		In			EMT	EMT	ATP P2 (ICT) received an unexpected "CLEAR_OGT_WAIT" Subtype Facility message while in clearing state (trap only).
2052	QPE		In			EMT	EMT	ATP P2 (ICT) timed out after receiving "CLEAR_OGT_WAIT" Subtype Facility message (trap only).
2053	QPE		In	HW	HHW	HW_IR	HW_IR	For a Q.931 ATP call, P1 could not pass a disconnect message to P2 while P2 (ICT) was on queue for a CR.
2054	QPE		In	HW	HHW	HW_IR	HW_IR	ATP call could not pass a disconnect message from P1 to P2 while P2 was busy to a CR.
2055	QPE		In	HW	HHW	HW_IR	HW_IR	ATP call could not pass a disconnect from P1 to P2 while P2 was busy to a CR.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2056	QPE		In	HW	HHW	HW_IR	HW_IR	ATP could not pass disconnect from P1 to P2 while P2 (ICT) was connected to CDTSDI or SCS announcement.
2057	QPE		In	HW	HHW	HW_IR	HW_IR	ATP call could not pass disconnect from P1 to P2 while P2 was in ICT system integrity confused state.
2058	QPE		In	HW	HHW	RLS	DISC_	ATP call could not pass disconnect NKN P1 while P1 was in OGT SINT confused state.
2059	QPE		In	RDA	CFL	CFL	EMT	An ATP Q.931 call could not pass a disconnect from P2 to P1 while P1 was in OANS or outgoing talking state.
2060	QPE		In			EMT	EMT	An unexpected message was received from the ATP Node. Trap message printed includes message type.
2061	MSC							The IBNS routing number used for inbound international terminating operator assisted calls fails to translate into a determinant call type.
2062			In	ROA				MAINTSK extra dig RECV-on DPCRQ
2063			In	VCA		RC_ SERV_ UN- AVAIL	SERV_ NA VAIL	Toll switch receives an operator requested call which is also identified as a data call

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2064			In	VCA		EMT	EMT	Switch received a NODAL call requesting operator services or a NODAL resale/wholesale call, but could not translate BN to true BN
2065			In	VCA		EMT	EMT	Toll switch receives an operator requested voice call, but cannot translate true BN to OSPSID
2066	DSF		In					EasyReach® 1 + 500 Dialing Plan - QDRS point code or subsystem number missing
2067			In					EasyReach® 1 + 500 Dialing Plan - Bad requery information is received from database. This is a Call Irregularity Report.
2068	DSF							EasyReach® 1 + 500 Dialing Plan - Invalid incoming type of trunk (not lcc)
2069			In	VCA		EMT	EMT	The TAS or OAS switch get OSPID, but cannot translate OSPSID to call type

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2070			In					ISUPICT receives an out-of-range OSPS ID in the generic operations parameter. Call is final handled; no OGT at this time; the OSP ID is dumped in the SVOGT field in the OGT side.
2071	QPE		In	VCA		SUN		Service not allowed for non-operator feature.
2077	QPE	MSC	In					Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 34, no circuit available. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.
2078	QPE	MSC	In					Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 41, temporary failure. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2079	QPE	MSC	In					Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 42, network congestion. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.
2080	QPE		In					Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 63, service or option not available, unspecified. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2081	QPE		In					Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 34, no circuit available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
2082	QPE		In					Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 41, temporary failure. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
2083	QPE		In					Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 42, switching equipment congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2084	QPE		In					Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 44, channel not available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
2085	QPE		In					Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 47, resource unavailable/unspecified. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2086	QPE		In					Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 58, bearer capability not available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
2087	QPE		In					Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 63, service option available/unspecified. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2088	QPE		In					Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 1, switching equipment congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
2089	QPE		In					Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 2, circuit group congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2090	QPE		In					Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 3, national network congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
2091	QPE		In					Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 5, call failure. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
2092	QPE		In					ISUP release message received with cause 34 (no circuit available) triggered route advance in setup state. This is a call irregularity report only.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2093	QPE		In					ISUP release message received with cause 41 (temporary failure) triggered route advance in setup state. This is a call irregularity report only.
2094	QPE		In					ISUP release message received with cause 42 (switching equipment congestion) triggered route advance in setup state. This is a call irregularity report only.
2095	QPE		In					ISUP release message received with cause 44 (requested circuit not available) triggered route advance in the setup state. This is a call irregularity report only.
2096	QPE		In					ISUP release message received with cause 47 (resource unavailable - unspecified) triggered route advance in setup state. This is a call irregularity report only.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2097	QPE		In					ISUP release message received with cause 58 (bearer capability not presently available) triggered route advance in setup state. This is a call irregularity report only.
2098	QPE		In					ISUP release message received with cause 63 (service option not available- unspecified) triggered route advance in setup state. This is a call irregularity report only.
2099	MSC		In			EMT	EMT	A service assist was requested by an NCP database on a DSD call (A800,SDN,PCP,etc.). The TCAP message, forward disconnect, was not received by the switch to clear the service assist. The service assist to the assisting switch will be cleared and the call will be routed. This is a call irregularity report only, the call will not be killed.
2100	DSF							Call eligible for USDS processing encountered non-fatal error. DSDC exception field indicates error encountered. Call not final handled, irregularity report only.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2101	DSF							USDS receives request to deny call from USDS.
2102	DSF		In					Protocol error detected while processing check application status message, call Irregularity report.
2103	MSC		In					CCS7 Message has illegal parameter. Drop and print parameter. Call continues. Call Irregularity report.
2104	DSF		In	VCA	ADI	ADI	EMT	A 10 digit voice call was received in the SDNA domain.
2105	MSC		In					For call irregularity trap that reports failure of 1B to store ATP or UUI data from ATP node.
2106	DSF		In	ROA	CFL	CFL	EMT	Call determined to be eligible for USDS/Leave-A-Message processing encountered a problem with sending a Network Routing Number (NRN) Query or a problem with the USDS response to the NRN Query.
2107	DSF		In	ROA	CFL	CFL	EMT	Bad call type received from digit translations for a USDS-LAM call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2110	DSF		In					A call eligible for Segmentation Directory (SD) encountered a non-fatal error. The exception code field indicates the specific error encountered. Call not final handled. This is a call irregularity report only.
2111	NCD		In	NCD	EMT	EMT	EMT	A Segmentation Directory (SD) call received a request to deny the call from SD.
2112	DSF		In	H&W	H&W	RLS	Disc_Unkn	A request to disconnect and final a SD call has been received from Service Processor/ NCP.
2113	MSC	MSC	In	VCA	VNN	EMT	EMT	International inbound global software defined network (GSDN) call. The call tried to default handle, but cannot route without Network Control Point (NCP) interaction.
2115	BNF		In	VCA	VNN	EMT	EMT	Translation of II or OLI versus calltype service category failed screening.
2118	DSF		In	VCA	VNN	EMT	EMT	Universal International Freephone access disallowed.
2119	DSF		In	NCA	NTC	CGC	IMT	Universal International Freephone call is blocked by code control.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2120	DSF		In	ROA	CFL	UBC	EMT	Received a request to play a terminating announcement on an AIN data call.
2121	DSF		In	ROA	CFL	UBC	EMT	An AIN called number trigger was detected on the called number received from the BOC SSP 800 SCP. The call is a data call and AIN data feature is not purchased.
2134	MSC		In			EMT	EMT	Used to attempt to redirect a call to an AT&T work center when a call is in a pre-ringing state before an ACM is received. If the call cannot be redirected then the caller will hear a network call denial (NCD) database announcement. This could be a call irregularity report.
2135	NCD		In					Used for Blocked International Call Deny Reply Code before answer received. This is a call irregularity report only.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2136	NCD		In					Used for Blocked International Call Deny Reply Code after answer received. This is a call irregularity report only.
2137	NCD		In					Used for Blocked Domestic Call Deny Reply Code before answer received. This is a call irregularity report only.
2138	NCD		In					Used for Blocked Domestic Call Deny Reply Code after answer received. This is a call irregularity report only.
2139	NCD		In					Used for Blocked NPA-NXX Deny Reply Code before answer received. This is a call irregularity report only.
2140	NCD		In					Used for Blocked NPA-NXX Deny Reply Code after answer received. This is a call irregularity report only.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2141	NCD		In					Used for Blocked Country Deny Reply Code before answer received. This is a call irregularity report only.
2142	NCD		In					Used for Blocked Country Deny Reply Code after answer received. This is a call irregularity report only.
2143	NCD		In					Used for Blocked Country+City Deny Reply Code before answer received. This is a call irregularity report only.
2144	NCD		In					Used for Blocked Country+City Deny Reply Code after answer received. This is a call irregularity report only.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2145	NCD		In					Used for Blocked World Zone Deny Reply Code before answer received. This is a call irregularity report only.
2146	NCD		In					Used for Blocked World Zone Deny Reply Code after answer received. This is a call irregularity report only.
2147	NCD		In					Used for Blocked Specific Destination Number Deny Reply Code before answer received. This is a call irregularity report only.
2148	NCD		In					Used for Blocked Specific Destination Number Deny Reply Code after answer received. This is a call irregularity report only.
2149	NCD		In					Used for other type of Deny call before answer received. This is a call irregularity report.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2150	NCD		In					Used for other type of deny call after answer received. This is a call irregularity report only.
2151	NCD		In					Friendly reply code one before answer. This is a call irregularity report only.
2152	NCD		In					Friendly reply code two before answer. This is a call irregularity report only.
2153	NCD		In					Friendly reply code three before answer. This is a call irregularity report only.
2154	NCD		In					Friendly reply code four before answer. This is a call irregularity report only.
2155	NCD		In					Friendly reply code five before answer. This is a call irregularity report only.
2156	NCD		In					Friendly reply code six before answer. This is a call irregularity report only.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2157	NCD		In					Friendly reply code seven before answer. This is a call irregularity report only.
2158	NCD		In					Friendly reply code eight before answer. This is a call irregularity report only.
2159	NCD		In					Friendly reply code nine before answer. This is a call irregularity report only.
2160	NCD		In					Friendly reply code ten before answer. This is a call irregularity report only.
2164	MSC		In	ROA	PDT	EBC	EMT	TSAA egress busy crankback.
2165	VAC		In					Invalid call type detected for location routing number. This is a call irregularity report only.
2166	MSC		In	VCA	VNN	EMT	EMT	TSAA NSN and LRN (received from either the OSPS or NCP) failed routing.
2167	MSC		Out	T	CFL	Pass_Cause	Pass_Cause	A RELEASE message with an ANSI CAUSE code of 26 (can't complete to the ported number) was received.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2168	MSC		In				NOOS	The ported number GAP was not received from OSPS on a LPN.
2169	VAC		In	VCA		SUN		The Network Switch Number (NSN) received in the NSN Generic Operation Parameter (GOP) from an OSPS was out of range.
2170	MSC		In					The LSP did a LPN query The incoming trunk type is LCC, the M bit of the Forward Call Indicator (FCI) parameter is set to zero and a ported number GAP was received. This is a call irregularity report only.
2171	MSC		In					The LSP did a LPN query The incoming trunk type is LCC, the M bit of the Forward Call Indicator (FCI) parameter is set to zero and a ported number GAP was received. This is a call irregularity report only.
2172	MSC		In					An invalid combination of ISUP LPN parameters was received from OSPS. This is a call irregularity report only.
2173	MSC		In					The LSP did a LPN query. Incoming trunk type is LCC; M bit of the FCI parameter is set to one, and ported number GAP received. A call irregularity report.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2174	MSC		In					The ported number GAP did not contain 10 digits. This is a call irregularity report only.
2175	DSF		In	VCA		SUN		NSN received from ATT LNP NCP was not within a valid range.
2176	MSC		In					ACG control due to ATT LNP NCP overload encountered on destination number. This is a call irregularity report only.
2177	MSC		In					ACG control due to OSS-initiated control encountered on destination number. This is a call irregularity report only.
2178	MSC		In					AT&T LNP NCP has indicated ANI/destination number not portable. This is a call irregularity report only.
2179	MSC		In					Return error component received from the AT&T LNP NCP. This is a call irregularity report only.
2180	MSC		In					Received reject message from ATT LNP NCP. This is a call irregularity report only.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2181	MSC		In					Received abort message from ATT LNP NCP database. This is a call irregularity report only.
2182	MSC		In					Message received from ATT LNP NCP was in error. This is a call irregularity report only.
2183	MSC		In					An error was found in the SCCP header of a message received from ATT LNP NCP. This is a call irregularity report only.
2184	MSC		In					LNP query timeout. This is a call irregularity report only.
2185	MSC	MSC	In	VCA	VNN	EMT	EMT	Translations encountered unusable routing when translating the Destination Number (DN) after either having launched an LNP query and receiving this switch's called party number (LRN) in the reply or receiving an incoming call from OSPS from which the LRN belonged to this switch.
2186	MSC		In	VCA	VNN	EMT	EMT	In handling case of switch receiving its own LRN at the terminating switch, retrieved and tried to translate the called party number in the Ported Number Gap and failed to get normal routing.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2187	MSC		In					Translations found invalid LRN for call received on an LSP-Local incoming trunk (ISUP only). Called party number (LRN) must belong to this switch.
2188	MSC		In					Translations found invalid PNG for call received on an LSP-Local incoming trunk (ISUP only). Called party number (LRN) belongs to this switch and the PNG was retrieved and translated but resulted in a FHT calltype.
2189	MSC		In	VCA				Call received on an LSP-Local MF or ISUP incoming trunk, and for the ISUP, the FCI M-bit received was zero. Digits translations of the received called number revealed a vacant code and the number was not in the Local Exchange Routing Guide table.
2190	MSC		In	VCA	VNN	EMT	EMT	The call was received on an LSP-Local MF or ISUP incoming trunk and for ISUP the FCI M-bit received was zero. Digits translations of the received called number revealed it was this switch's Local Exchange Routing Guide Assigned Number, but the reply to the LNP query indicates this number is not ported.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2191	MSC		In	ROA	CFL	CFL	EMT	LNP query made for the Digital Link feature failed for various reasons including controls prohibit sending and timeout waiting for the reply. The condition is encoded in the DSD exception code.
2192	MSC		In	VCA	VNN	EMT	EMT	Performed an LNP query for Digital Link feature when finding the routing number was the Local Exchange Routing Guide Assigned Number. The reply from the database contained a destination number for which the routing translations failed to provide usable routing.
2193	MSC		In	VCA	ADI	ADI	EMT	A Ported Number Generic Address Parameter that is not formatted correctly was received from a LSP trunk for a local nodal call that is terminating to a local nodal customer.
2194	MAB		Out	HW	HW-NIA	HW-NIR	HW-NIR	Suspected Fraudulent SDN NRA call being killed (Do Not play any announcement - High and Wet Treatment with No Immediate Reset [AKA Action] is called for.)

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2195	MSC		In	HW	EMT	EMT	EMT	Handling a reply from Network Routing and Numbering Database (NRNDB) for a non final route and encountered invalid DSN routing.
2196	MSC		In	HW	EMT	EMT	EMT	Handling a reply from Network Routing and Numbering Database (NRNDB) for a non final route and Foreign Administration ID (FAI), received from database does not match data in MCT table.
2197	VAC		In	VCA	VNN	EMT	EMT	Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and encountered invalid DSN routing.
2198	VAC		In	VCA	VNN	EMT	EMT	Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and Foreign Administration ID (FAI), received from database does not match data in MCT table.
2199	NCA		In	NCA	NTC	CGC	EMT	Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and could not route call.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2208	MSC		In	NCA	NTC	CGC	EMT	Handling a reply from Network Routing and Numbering Database (NRNDB) for a call and received database instruction to dispose of call using no circuit condition (an override should be specified).
2209	MSC		In	VCA	VNN	EMT	EMT	Handling a reply from Network Routing and Numbering Database (NRNDB) for a domestic and numbering database for a domestic call and encountered terminate call condition (see Exception Code for reason).
2210	MSC		In	IVC	VNN	EMT	EMT	Handling a reply from Network Routing and Numbering Database (NRNDB) for an international call and encountered terminate call condition (see Exception Code for reason).
2211	MSC		In	NCA	NTC	CGC	EMT	Handling a query to the Network Routing and Numbering Database (NRNDB) for a domestic call and encountered ACG control that requires the call to be terminated.
2212	MSC		In	INC	NTC	CGC	EMT	Handling a query to the Network Routing and Numbering Database (NRNDB) for an international call and encountered ACG control that requires the call to be terminated.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2213	MSC		In	VCA	VNN	EMT	EMT	Handling a reply from the Network Routing and Numbering Database (NRNDB) for a call. The database returned a return error component with an error code of missing routing record. For this case the NCP requires the call to be terminated.
2214	MSC		In	HW	EMT	EMT	EMT	Handling a query to the Network Routing and Numbering Database (NRNDB) for a domestic call and encountered ACG control that requires the call to be default routed.
2215	MSC		In	HW	EMT	EMT	EMT	Trying to query a Network Routing and Numbering Database (NRNDB) for an international call and encountered ACG control that requires the call to be default routed.
2216	MSC		In	HW	EMT	EMT	EMT	Trying to query a Network Routing and Numbering Database (NRNDB) and failed to launch the query (see Exception Code for reason). The call will be default routed.
2217	MSC		In	HW	EMT	EMT	EMT	Handling a reply from the Network Routing and Numbering Database (NRNDB) for a call. The database returned a return error component with an error code of missing routing record. For this case the NCP requires the call to be default routed.

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Table 3-A. Numerical Listing of Domestic Final Handling Codes (Contd)

FHC	Trap Name	Error Analysis	In/Out Failure	Signaling Type and Treatment				Comment
				E&M	CCIS	ISUP	Q.931	
2218	MSC		In	HW	EMT	EMT	EMT	Received one of several possible TCAP invalid/erroneous messages from Network Routing and Numbering Database (NRNDB). The call will be default routed.
2219	MSC		In	HW	EMT	EMT	EMT	No reply received from Network Routing and Numbering Database (NRNDB), OGTS0000 timed out before reply to the begin message received. Call will attempt to be routed with switch populated routing data called default routing.
2220	MSC		In	HW	EMT	EMT	EMT	No reply received from Network Routing and Numbering Database (NRNDB), OGTS0000 timed out before reply to a continue message received. Call will attempt to be routed with switch populated routing data called default routing.

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Alphanumeric Listing of Domestic Final Handling Codes by Trap Name

The following is Table 3-B.

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Notes

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type)

ADF — CCIS Outgoing Addressing Failure

- 171 — OGT vacant national number, received;
Reported to VCNTANAL
 - 175 — OGT address incomplete received;
reported to VCNTANAL
 - 631 — This call has encountered a 10 digit dialed number rate
based control (DNRBC), for which the action indicated
(kill call), calls segmentation directory (SD), mode of
operation (SMO), may be killed by these controls.
 - 770 — CCIS or ISUP OGT INTL call RCVD ADI
reported to VCNTANAL
 - 775 — CCIS or ISUP OGT INTL call RCVD VNN
reported to VCNTANAL
 - 836 — CCIS or ISUP OGT INTL call received ADI
 - 841 — CCIS or ISUP OGT INTL call received VNN
 - 1336 — ISUPOGT handler received a backward
release message with announcement ID of
international vacant code
 - 1562 — ITUP OGT received a ADI message during call setup
 - 1867 — OGT received a REL message during call setup
with the cause indicating address incomplete
 - 1980 — ISUP OGT handler received a backward failure
release in a domestic call, VCA treatment.
 - 1985 — ISUP OGT handler received a backward failure
release in a transit call, VCA treatment.
 - 1990 — ISUP OGT handler received a backward failure
release in a international outgoing call, IUC
treatment.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**ADF — CCIS Outgoing Addressing Failure (Continued)**

1995 — ISUP OGT handler received a backward failure release in an international outbound overflow call — INC treatment.

AIF — Automatic Number Identification (ANI) Office Failure

11 — CAMA ANI failure (Information digit = No digits coming) caused by local office trouble
 34 — CAMA completed call AOF — TMAINT
 246 — Expanded AIF which happened on same call as current CAMA operator failure

ANF — Automatic Number Identification (ANI) Failure

13 — CAMA ANI digit collection time-out, MF receiver to TMAINT
 35 — CAMA completed call ANF — TMAINT
 247 — Expanded ANI failure which happened on same call as current CAMA operator failure

ANM — Automatic Network Management

2 — NM dynamic overload control
 3 — NM selective trunk reservation
 6 — Network management cancel due to doctor
 15 — Call failed due to NM SILC control
 297 — 800 Service (INWATS), call killed by code control
 298 — 800 Service (INWATS), call killed by direct signaling control
 310 — Call blocked by 10 digit INWATS call control
 531 — DSDC call blocked due to overload conditions at NCP

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

ANM — Automatic Network Management (Continued)

- 533 — SDN calls blocked due to NOCS-initiated controls
 - 534 — DSDC calls blocked due to NOCS-initiated controls
 - 535 — SDN calls blocked due to direct signaling message failures
 - 536 — DSDC calls blocked due to direct signaling message failures
 - 1011 — DNHR S-DOC in effect on OGT group (4ESS Switch DNHR OTS)
 - 1095 — BOC SSP calls blocked due to SCP overload
 - 1096 — BOC SSP calls blocked due to SMS initiated controls
 - 1097 — BOC SSP call blocked due to mass calling controls
 - 1098 — BOC SSP call blocked due to vacant code controls
 - 1099 — BOC SSP call blocked due to nonpurchased NPA controls
 - 1624 — SDN call was controlled by SDN-NOCS initiated ACG.
 - 1625 — SDN call was controlled by database initiated ACG.
 - 1626 — Dialed no service call was controlled by receipt of ACG from database.
 - 1627 — Dialed no service call was controlled due to mass calling.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**ANM — Automatic Network Management (Continued)**

- 1628 — Dialed no service call was controlled by NOCS initiated ACG.
- 1699 — The second attempt to query the UGTT DB has been controlled by an ACG control
- 2028 — AIN TCAP — AIN call killed prior to SCP query due to NM controls with cause SCP overload

AOF — Automatic Number Identification (ANI) Local Office Failure

- 12 — CAMA ANI information digit time-out, MF receiver to TMAINT
- 1315 — ISUPOGT handler received a backward release message with announcement ID of vacant code announcement

BFL — CCIS Backward Failure

- 166 — Blocking received on call in setup stage; call will retry
- 205 — Reset received on nonstable call; call will retry
- 206 — Confusion received, TMAINT only
- 209 — Release guard received on nonstable OGT; will retry
- 219 — TMAINT, CCIS call with clear-back received before answer
- 764 — Not final handled; service message received on Q.931 OGT in setup state, report call irregularity
- 765 — Service message received on Q.931 OGT in setup state, final trial failure

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**BFL — CCIC Backward Failure (Continued)**

- 879 — Not final handled — ISUP OGT handler received blocking message during setup — will retry
- 887 — Reset circuit message received while ISUP OGT is in special setup state
- 888 — ISUP OGT handler received blocking message during setup on final try
- 890 — Group reset message received while ISUP OGT is in special setup state
- 1557 — ITUP OGR handler received a blocking message during setup — will retry
- 1855 — OGT received a BLO message during setup — will rehunt another OGT
- 1968 — Blocking message received while waiting for ANI.

BNF — Billing Number Failure

- 163 — Seven-digit, domestic, equal access (switched access) MF incoming SDN call did not receive at least NPA in ANI
- 727 — Translation of the OLI found a Local NODAL (SDN or MEGACOM) or a Local NODAL Phase 5 (SDN or MEGACOM) OLI value and have received either a primary mode SAP or an APP with one or more of the following GOPS - ACCESS ID, TRN, FENPA, or ACCESS DOMAIN ID. The requirement is to final handle such a call when received on an LCC trunk with FEALN set.
- 728 — ISUPICT received in the IAM from an LCC ICT with FEALN set. A primary mode SAP and an APP using ACCESS DOMAIN ID, in its GOP.

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

BNF — Billing Number Failure (Continued)

- 780 — Only KP+ST received on EAS call; FEN data says kill call
 - 781 — Only KP+ST Received on EAS call; FEN data says route and record
 - 782 — Only KP+ST received on EAS international outbound call; FEN data says kill call
 - 783 — Only KP+ST received on EAS international outbound call; FEN data says route and record
 - 785 — INFO digits translator says kill EAS call
 - 786 — INFO digits translator says ANI bad; FEN data says kill EAS incoming call
 - 787 — INFO digits translator says ANI bad; FEN data SYS route and record EAS call
 - 940 — Call irregularity for a non-EAS call on an EAS only TSG where AI was not received and the ANI failure action is route and record
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

BNF — Billing Number Failure (Continued)

- 942 — Final handle the non-EAS call placed on an EAS only TSG where ANI was required but not received, and the ANI failure action was not route and record.
 - 1704 — For incoming CCS7 ISUP SSP call, ISUPDIRE checks ANI digit count and found it was neither 3 nor 10 — 4E12 requirements have SSP switch kill such calls.
 - 1707 — Incoming ISUP EA call — translations found unexpected OLI.
 - 1708 — On an incoming EA ISUP call, OLI translations found incomplete ANI. Use ANI fail action from ICT FENN block.
 - 1709 — On an incoming EA ISUP call, OLI translations found an incomplete ANI. ANI fail action from ICT FENN block is route and record.
 - 1962 — ISUP OGT timed out while waiting for ANI.
 - 1967 — ISUP OGT can't get ANI for a call that needs it.
 - 2010 — An invalid NPA detected in equal access ANI digits
 - 2115 — Translation of II or OLI versus calltype service category failed screening.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**CCP — Customer Call to PAS**

- 162 — Digit reception program looping through translations for all digits from multiple cut-thrus and/or 800 Service (INWATS); Reported to VCNTANAL
- 240 — CCPAS is use of service ASSIST — A800, SDN, 1800, etc.; reached announcement time-out before clear assist
- 251 — Customer's call to MAS/PAS, path hunt failure(s), all attempt(s) failed
- 252 — No vacant MAS/PAS announcement available
- 253 — Customer call to public announcement system (CCPAS) failure 2. Barge-in source trunk not connected to dedicated TSI-SPC
- 330 — Called CCPAS announcement not available. announcement handling disposition is to connect caller to new SCS service not active final handling announcement
- 331 — Called CCPAS announcement not available. Announcement handling disposition is to connect caller to new SCS vacant MAS final handling announcement
- 645 — When the SCS CCPAS call got the bad announcement ID report the call was finaled
- 646 — When new trunk hunt returned fail for an SCS CCPAS call, the call was finaled
- 1350 — Barge-in was not allowed for CCPAS-ANI delivery service call.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

CCP — Customer Call to PAS (Continued)

- 1351 — ANI was not available or TSI port was PESTed or duplex failure was encountered after ANI had been retrieved on CCPAS-ANI delivery service call
 - 1352 — ANI was not available or TSI port was PESTed or duplex failure was encountered after ACK. From vendor was received on CCPAS-ANI delivery service call
 - 1353 — DTCR timed-out while waiting for ACK. From vendor that ANI was received on CCPAS-ANI delivery service call.
 - 1354 — Failed to obtain cut-thru number on CCPAS-ANI delivery service call reported to VCNTANAL
 - 1359 — ANI delivery SADC message has been returned
 - 1360 — ANI delivery SCCP message has been returned
 - 1361 — Excessive number of register messages were sent to vendor in 1 second
 - 1362 — Excessive number of time-outs waiting for vendor acknowledgment for a specific vendor were seen in 1 minute
 - 1363 — Sent ANI and dialed digits to vendor for ANI delivery service feature encountered rejection of received ANI and digits from vendor
 - 1364 — Request to send ANI and dialed digits for ANI delivery service feature encountered invalid CL-SCCP message
 - 1366 — Request to send ANI and dialed digits for ANI delivery service feature encountered link to vendor outage
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**CCP — Customer Call to PAS (Continued)**

- 1367 — Request to send ANI and dialed digits for ANI delivery service feature encountered CNI ring outage
- 1368 — Request to send ANI and dialed digits for ANI delivery service feature encountered translation error in vendor data translator
- 1369 — Request to send ANI and dialed digits for ANI delivery service feature encountered invalid ANI delivery service index
- 1370 — Timed out waiting for vendors acknowledgement that ANI was delivered or A vendor reject message was received

CFL — CCIS Call Failure Received

- 174 — OGT call failure received
- 771 — CCIS or ISUP OGT INTL call RCVD CFL
- 837 — CCIS or ISUP OGT INTL call received CFL
- 1310 — ISUPOGT handler received a backward release message with announcement ID of reorder tone
- 1314 — ISUPOGT handler received a backward release message with announcement id of no circuit available
- 1316 — ISUPOGT handler received a backward release message with announcement id of reorder announcement
- 1337 — ISUPOGT handler received a backward release message with announcement id of international foreign failure
- 1563 — ITUP OGT received a CFL message during call setup

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

CFL — CCIS Call Failure Received (Continued)

- 1870 — OGT received a REL message during call setup with the cause indicating temporary failure
 - 1885 — OGT received a REL message after call setup with the cause indicating temporary failure
 - 1981 — ISUP OGT handler received a backward failure release in a domestic call, reorder tone treatment.
 - 1983 — ISUP OGT handler received a backward failure release in a domestic call, ROA treatment.
 - 1988 — ISUP OGT handler received a backward failure release in a transit call, ROA treatment.
 - 1991 — ISUP OGT handler received a backward failure release in an international call — ROA treatment.
 - 1993 — ISUP OGT handler received a backward failure release in an international call — IFF treatment.
 - 1996 — ISUP OGT handler received a backward failure release in an international outbound overflow call — ORA treatment.
 - 1998 — ISUP OGT handler received a backward failure release in an international outbound overflow call — IFF treatment.
 - 2000 — ISUP OGT handler received a backward failure release in a domestic call — ROA treatment.
 - 2001 — ISUP OGT handler received a backward failure release in a domestic call — ROA treatment.
 - 2002 — ISUP OGT handler received a backward failure release in an international call — ROA treatment.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**CFL — CCIS Call Failure Received (Continued)**

- 2003 — ISUP OGT handler received a backward failure release in an international outbound overflow call — ROA treatment.
- 2004 — ISUP OGT handler received a backward failure release in an international call — IFF treatment.
- 2005 — ISUP OGT handler received a backward failure release in an international outbound overflow call — IFF treatment.
- 2011 — The ISUP OGT handler received a backward failure release in a domestic call and the coding standard was invalid, reorder tone treatment

CKF — CCIS Continuity Check Failure

- 181 — CCIS voice path assurance time-out, OGT and transceiver to maintenance
- 472 — Continuity check test failure — not final trial
- 473 — Continuity check test failure on final trial
- 870 — ISUP OGT VPA test timed-out
- 872 — Not finaled handled; ISUP OGT first trial VPA failure; normal call or test call
- 891 — ISUP OGT doing continuity check request (CCR) failed to receive loopback acknowledge message (LPA)
- 997 — ISUP ICT timed-out while waiting for COT.
- 999 — COT failure occurred on ISUP ICT that was on queue for CR.
- 1001 — COT failed on ISUP ICT that was waiting for COT.
- 1421 — ITUP ICT timed out while waiting for COT

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

CKF — CCIS Continuity Check Failure (Continued)

- 1422 — COT failed MSG received on an ITUP ICT that was waiting for COT
 - 1423 — COT failed MSG received on an ITUP ICT that was on queue for a CR
 - 1497 — Call progress message received on ISUP outgoing trunk but have not sent continuity message
 - 1550 — An ITUP OGT VPA test failed on first attempt
 - 1551 — ITUP OGT VPA test failed final try
 - 1769 — COT failure message received while call on queue for a CR
 - 1770 — COT failure message received during call setup
 - 1773 — ICT timed out waiting for a COT message
 - 1843 — OGT VPA test failed — will rehunt another OGT
 - 1844 — Outgoing trunk VPA test failed on second try
 - 1933 — COT failed on an ISUP ICT at an access tandem was waiting for COT.
 - 1934 — ISUP ICT at an access tandem timed out while waiting for COT.
 - 1977 — ISUP OGT requested a no-loopback continuity check test (CCK) which has failed, without a test requested loopback at the far end, a tone has been received indicating the presence of the pre-test loopback plug. A rehunt will not be performed and the call will be final handled.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

CKF — CCIS Continuity Check Failure (Continued)

1978 — Integrated Services User Part (ISUP) Outgoing Trunk (OGT) requested a no-loopback continuity check (CCK) which has failed. Without a test requested loopback at the far end, a tone has been received indicating the presence of the pre-test loopback plug. An advanced route rehunt will be performed to select another circuit.

CPF — Continuity/Polarity Test Failure

99 — Main task scanned one-way OGT; it was off-hook; continuity polarity failure
228 — Seizure on one-way OGT continuity test failure
950 — Found incoming seizure on one-way DTMF OGT, first trial
951 — Found incoming seizure on one-way DTMF OGT, final trial

CPT — CAMA Position Trouble

17 — CAMA position disconnect
28 — CAMA operator keyed in trouble number

CST — CAMA Position Seizure Time-Out

31 — CAMA operator failed to acknowledge seizure
37 — Time-Out — no TSPS operator position attached received

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**DNF — Dynamic Node Failure**

- 1008 — 4ESS Switch functioning as DNHR OTS via, or TTS detected invalid condition in routing translation data during OGT hunt; reported to VCNTANAL
- 1009 — Illegal number subscription call type found; reported to VCNTANAL
- 1016 — Routing error found at DNHR TTS; reported to VCNTANAL
- 1017 — Failed to find RDB for direct route to OTS with LSP = 0; reported to VCNTANAL
- 1018 — Failed to find required DNHR route in hierarchical RDB; reported to VCNTANAL
- 1020 — DSR received on OGT
- 1021 — DSC received on OGT (4ESS Switch OTS or TTS)
- 1022 — DSC received on OGT (4ESS Switch VTS)
- 1023 — OGT crankback received at 4ESS Switch VTS

DSF — Direct Signaling Failure

- 7 — No translations exist in GTT database for NPA in SCCP header
- 120 — An attempt was made to record and route the call when an SDN call encountered a particular failure. Call not final handled, irregularity report only.
- 303 — Government emergency telecommunication services — bad digits received with DTMF receiver
- 304 — Government emergency telecommunication services — too few digits received with DTMF receiver
- 305 — Government emergency telecommunication services — fail open off

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**DSF — Direct Signaling Failure (Continued)**

- 402 — Illegal attempt to use proprietary SND/P3 feature
- 424 — Victim switch did not receive response from NCP. This is a Call Irregularity Report
- 515 — Failed to receive DS message from TSPS containing real calling station identity on T/C call
- 565 — Timed out waiting for DSDC commands from network control point
- 566 — DSDC direct signaling message could not be sent due to link failure or congestion
- 567 — DSDC direct signaling message blocked in network and returned to 4ESS Switch
- 569 — Routing number specified in DSDC command from NCP is invalid
- 570 — DSDC command to terminate call received from NCP
- 572 — SOM or EOM MSG time-out
- 573 — DSDDCTL Non-Fatal Exception Report
- 575 — Bureaucracy block needed for DSDC call is unavailable
- 629 — This data call handled in SD mode of operation has reached a situation for which SD default handling would normally be invoked. Call final handled.
- 729 — IN call processing encountered either a revert to PMO request from the SD or an error while communicating with an SD on a call with a non-routable number.
- 946 — On an SDN call with SDN Call Forwarding feature routing digits in the form 8YY not received from NCP

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

DSF — Direct Signaling Failure (Continued)

- 1000 — The capabilities required to complete a service assist or handoff are not available at the AAS/HAS
 - 1106 — Failed to send BOC SSP initial query because CNI stream down
 - 1107 — Failed to send BOC SSP initial query because CNI send buffer overflow
 - 1108 — Timed-out waiting for response from service control point (SCP) data base
 - 1109 — Received reject message from SCP in response to initial query
 - 1110 — Received return error message from SCP INM response to initial query
 - 1111 — Message received from SCP in response to initial query contained fatal protocol errors
 - 1112 — Received play announcement message from SCP in response to initial query
 - 1113 — BOC SSP initial query returned as unit data service message because it encountered transport problems
 - 1114 — BOC SSP initial query returned by CNI
 - 1115 — BOC SSP initial query returned by DLN
 - 1116 — BOC SSP Non-Fatal Exception Report; for Trunk Maintenance Report only
 - 1117 — Did not receive acceptable number of dialed digits (10) for BOC SSP 800 number services call
 - 1165 — The UGT database failed to find a customer record for a resell featured call. This is a call irregularity report only. The call will not be purged.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**DSF — Direct Signaling Failure (Continued)**

- 1169 — Government emergency telecommunication services —
NSC prequery error
- 1170 — Government emergency telecommunication services —
SCS prequery error
- 1396 — Digit reception (DR) LEC AIN after an initial query (AIQ),
the called number was not in the subscribed footprint
area, so that the attempt was made to retranslate the
carrier ID (along with data rate transport capability
(DRTC) ADN circuit code) to get routing to the carrier,
but that failed.
- 1397 — Digit reception BOC SSP response, the called number
was not in the subscribed footprint area so that the
attempt was made to retranslate the carrier ID (along
with DRTC and circuit code) to get routing to the carrier
but that failed.
- 1398 — Digit reception attempting to translate carrier ID in
Number Services Routing (NSR) on SSP call type
without SCP data base query and was told to check
footprint. The called number was not in the subscribed
footprint area so the attempt was made to retranslate
the carrier ID (along with DRTC and circuit code) to get
routing to the carrier but that failed.
- 1399 — 8YY call blocked due to payphone restrictions.
- 1589 — On a 1+500 EasyReach call with CALIPER feature
enabled, Bill-to-Indicator digits not received from
2DSA/NCP
- 1590 — Redirection information received from the NCP was
invalid - Call Irregularity Report only
- 1591 — A digit was lost by the SCS frame

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

DSF — Direct Signaling Failure (Continued)

- 1592 — A bad announcement number was received from the NCP
 - 1593 — A bad announcement number was reported from ODA data
 - 1594 — A bad SCU State Report was received from SCS
 - 1595 — A bad list order was received from SCS
 - 1596 — A bad announcement set order was received from SCS
 - 1597 — An unexpected NCP command was received
 - 1598 — Caller interaction commands could not be stored in the CR
 - 1599 — Caller interaction requested by the NCP could not be executed
 - 1607 — An error occurred when processing a DSD-TCAP call which required CVIS services
 - 1608 — SDN-RNA sequence dialing call via CVIS — report only
 - 1609 — The acceptable digit count for an SDN call using the DCIS6 protocol is incorrect in the call type word
 - 1610 — The acceptable digit count for a dialed number based call using the DCIS6 protocol in the call type word is incorrect
 - 1611 — TCAP protocol-abort message was sent or received on a DSD call
 - 1612 — TCAP user-abort message was sent or received on DSD call
 - 1613 — Time-out has occurred while processing DSD call using TCAP protocol.
 - 1614 — TCAP message was returned by DLN.
 - 1615 — TCAP message was returned by CNI.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**DSF — Direct Signaling Failure (Continued)**

- 1616 — Unit data service message was received.
- 1617 — Request to disconnect and final DSD call has been received.
- 1618 — Routing data received from NCP was incorrect.
- 1619 — Request for NCP transfer was denied.
- 1620 — Request was received from NCP that is not recognized by 4E.
- 1621 — While attempting to send TCAP message to database a buffer overflow condition occurred.
- 1622 — While attempting to send TCAP message to the database the stream went down.
- 1623 — Unexpected parameter was encountered while processing message from database.
- 1629 — While processing response from database, data was found in error.
- 1630 — QA protocol error was found while validating TCAP message.
- 1631 — Error occurred when processing DSD-TCAP call which required NSC services
- 1632 — Maximum number of assists at this switch has been exceeded.
- 1633 — An entry in the IDB cache table caused an invalid translation — call irregularity report only
- 1634 — AM4SENDBUF was full when processing a DSD call with termination data
- 1635 — A feature requiring the TCAP protocol was attempted using the DCIS6/CCIS6 protocol

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

DSF — Direct Signaling Failure (Continued)

- 1636 — Customer not allowed to dial international numbers
 - 1637 — The acceptable digit count for an SDN call using the TCAP protocol is incorrect in the call type word
 - 1638 — The acceptable digit count for a dialed number based call using the TCAP protocol is incorrect in the call type word
 - 1639 — While using CADCR secondary routing number, the call was finaled
 - 1697 — The second query to the universal global title translations (UGTT) database (DB) has failed due to subsystem number (SSN) or signaling point code (SPC) congestion
 - 1698 — The second attempt to query the SDN DB using information from the UGTT database has failed due to SSN or SPC prohibited or SPC congestion.
 - 1700 — UGTT DB contains no valid data for this ANI/NPT
 - 1701 — The first attempt to query the UGTT DB was controlled by an ACG control— call irregularity only
 - 1702 — No GTT data was found in either the DLN or the cache table — query the UGTT DB for information — call irregularity only
 - 1728 — A bad universal global title translation (UGTT) state was discovered in the check_UGTT_cache routine
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**DSF — Direct Signaling Failure (Continued)**

- 1808 — Received a dial-around-code but failed to receive a reply from the SD or 2DSA.
- 1809 — An error occurred on a dial-around (carrier ID, 101XXXX) SDN/PCP call that resulted in an attempt to default route and record the call. Dial-around calls are not allowed to be default routed and recorded. The call will be killed.
- 1913 — AIN — call attempted to serial trigger to AIN SCP more than the allowed number of times causing the call to be killed
- 1914 — AIN — the database requested the switch redirect the call and the redirection would cause the 4ESS Switch to exceed the redirection limit
- 1915 — AIN — the ain scp indicated a carrier which had all circuits busy. The SSP will attempt another carrier route. This is a call irregularity report only.
- 1975 — A request to disconnect and final a SDN-NRA subsequent call has been received
- 2102 — A protocol error was detected while possibly processing a check application status message. This is a call irregularity report only.
- 2014 — AIN TCAP — a user-abort message was received or sent on an AIN call using TCAP signaling
- 2015 — AIN TCAP — protocol abort message sent or received on a call using the TCAP protocol
- 2016 — AIN TCAP — an application error occurred on an AIN call using TCAP to communicate with the SCP

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

DSF — Direct Signaling Failure (Continued)

- 2017 — AIN TCAP — initial query was returned AS unit data service message (UDS) due to transport problems
 - 2018 — AIN TCAP — initial query returned by the DLN
 - 2019 — AIN TCAP — initial query returned by CNI
 - 2020 — AIN TCAP — Timed out while waiting for a response from the service control point (SCP) database
 - 2021 — AIN TCAP — A request was received from the SCP database to final handle this AIN call
 - 2022 — AIN TCAP — The SCP sent a request to the 4E (SSP) to play an announcement which is not equipped on the AIN SCS frame
 - 2024 — AIN TCAP — While processing a TCAP response from the SCP an invalid operation was detected
 - 2025 — AIN TCAP — Failed to send a AIN TCAP initial query due to CNI send buffer overflow
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**DSF — Direct Signaling Failure (Continued)**

- 2026 — AIN TCAP — Stream down condition detected while attempting to send message to SCP database
- 2029 — AIN TCAP — While processing a TCAP message from the SCP a protocol error was detected
- 2030 — AIN TCAP — Bad data detected in TCAP parameter received from the SCP
- 2047 — AIN TCAP — Non-fatal exception occurred on a call using AIN TCAP call irregularity report only
- 2066 — **EasyReach**® 1 + 500 Dialing Plan - QDRS point code or sub-system number missing
- 2068 — **EasyReach** 1 + 500 Dialing Plan - Invalid incoming type of trunk (not lcc)
- 2100 — A USDS call encountered a non-fatal error. The DSDC exception field indicates the error. Call not final handled, irregularity report only.
- 2101 — A USDS received a request to deny the call from the USDS
- 2104 — A 10 digit voice call was received in the SDNA domain
- 2106 — A call determined to be eligible for USDS/Leave-A-Message processing encountered a problem with sending a Network Routing Number (NRN) query or a problem with the USDS response to the NRN Query

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

DSF — Direct Signaling Failure (Continued)

- 2107 — Bad call type received from digit translations for a USDS/ Leave-A-Message call
- 2110 — A call eligible for Segmentation Directory (SD) encountered a non-fatal error. The exception code field indicates the specific error encountered. Call not final handled. This is a call irregularity report only.
- 2112 — A request to disconnect and final a Segmentation Directory (SD) call has been received from Service Processor/NCP (SP)
- 2118 — Universal International Freephone access disallowed.
- 2119 — Universal International Freephone Call is blocked by Code Control.
- 2120 — received a request to play a terminating announcement on an Advanced Intelligent Network data call
- 2121 — An Advanced Intelligent Network called number trigger was detected on the called number received from the BOC SSP 800 SCP. The call is a data call and the AIN data feature is not purchased.
- 2175 — NSN received from AT&T Local Number Portability (LNP) NCP was not within a valid range.
- 2191 — The LNP query made for the Digital Link feature failed for various reasons including controls prohibit sending and timeout waiting for the reply. The condition is encoded in the DSD exception code.

DWF — Dial Pulse Worklist Full

- 75 — Main dispenser DP worklist full
 - 117 — DP out worklist full
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**EBF — Far End Busy Failure**

- 168 — Subscriber busy received on outgoing CCIS OGT
- 560 — Disconnect received in setup state with cause that indicates user busy
- 638 — A Q.931 disc message was received while waiting for answer — cause indicated busy tone
- 756 — Release complete received in setup state with cause which indicates user busy
- 774 — CCIS or ISUP OGT INTL call RCVD SSB
- 1564 — ITUP OGT received a SSB message during call setup
- 1861 — OGT received a REL message during call setup with the cause indicating user busy
- 1982 — ISUP OGT handler received a backward failure release in a domestic call, busy tone treatment.
- 1992 — ISUP OGT handler received a backward failure release in an international call — busy tone treatment.

FSA — False-Start Abandon

- 82 — Early abandon, DP state change prior to completion of buffer timing on immediate start or delay-dial/start-dial trunk
- 235 — Expanded non-MF abandon with no digits
- 237 — Expanded MF abandon with no digits
- 832 — False start abandon on IDTS ICT
- 852 — Abandon received on DTMF wink start ICT while sending wink
- 855 — False start abandon on DTMF wink start ICT

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**FSO — Failure Signal — Outgoing Trunk**

470 —	Fail signal OGT BLO —	Not final trial
471 —	Fail signal OGT BLO —	Final trial failure
476 —	Fail signal OGT COF —	Not final trial
477 —	Fail signal OGT COF —	Final trial failure
480 —	Fail signal OGT MRF —	Not final trial
481 —	Fail signal OGT MRF —	Final trial failure
482 —	Fail signal OGT RLG —	Not final trial
483 —	Fail signal OGT RLG —	Final trial failure
484 —	Fail signals OGT ADI	
485 —	Fail signals OGT CFL	
486 —	Fail signals OGT CGC	
487 —	Fail signals OGT LOS	
488 —	Fail signals OGT NNC	
489 —	Fail signals OGT SEC	
490 —	Fail signals OGT SSB	
491 —	Fail signals OGT SST	
492 —	Fail signals OGT VNN	
493 —	XCVR hunt fail	

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

FSO — Failure Signal — Outgoing Trunk (Continued)

- 498 — Time-out waiting for answer
- 499 — CFL received on OGT while waiting for answer
- 500 — CGC received on OGT while waiting for answer
- 501 — NNC received on OGT while waiting for answer
- 503 — Time-out waiting CLF from a clear back state
- 1887 — OGT timed out waiting for a release or reanswer message

FTF — Final Trial Failure

- 95 — Second delay-dial/start-dial or wink start time-out failure
 - 96 — Second glare where second trunk has far-end control
 - 100 — Final trial failure of scanned one-way OGT continuity polarity test failure
 - 101 — Second stop-go time-out, from final
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

FTF — Final Trial Failure (Continued)

- 112 — Second glare OGT seizure failure
 - 121 — MF second unexpected stop received DP permanent signal or partial dial
 - 127 — DP second unexpected stop or continuity failure
 - 128 — Second MF transmitter failure
 - 184 — Network failure, ICT-OGT connect
 - 191 — Final trial glare, to final
 - 192 — Second try failure
 - 202 — Fail to connect CCIS transceiver, second trial
 - 204 — Second try voice path assurance failure
 - 210 — Reenter final to apply emergency announcement
 - 212 — Continuity time-out waiting to apply emergency announcement
 - 213 — Abandon before emergency announcement applied
 - 216 — Second trial unequipped label — From final
 - 467 — Failure to reserve ICT — OGT connection
 - 468 — Total signaling failure on 1st choice and failed rehunt (Final)
 - 761 — Final trial failure on BBC call for Q.931 OGT
 - 1252 — MF transmitter error on second EA outgoing call attempt to INC
 - 1254 — MF transmitter error on second EA outgoing attempt to INC via at
 - 1256 — MF transmitter error on second EA outgoing attempt to IC via at
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**FTF — Final Trial Failure (Continued)**

- 1258 — MF transmitter error on second EA outgoing attempt to IC direct
- 1725 — The final attempt to communicate with the adjunct has failed. The common platform adjunct data table said to final handle the call
- 1804 — Second trial failure (final trial) received MF Transmitter error report while trying to transmit the ANI on an MF-Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk.

GLC — Glare Control

- 130 — First or second glare 4ESS Switch controls, TMAINT
- 208 — Glare detected; 4ESS Switch controls first or second trial, TMAINT only
- 861 — A glare condition was reached on a TRK continuity check test
- 883 — Not final handled — ISUP OGT handler received IAM on trunk that is busy to CR — glare — This end controls and far end should back down
- 962 — Glare detected on two-way DTMF OGT; expect far-end backdown
- 1542 — ITUP OGT handler received an IAM on a trunk that is busy to a CR — Glare — This end controls and far end should back down
- 1837 — OGT received an IAM message — WE control
- 1956 — ISUP OGT handler received IAM after sending CRM and this switch has control.
- 1960 — ISUP OGT handler received CRM after sending IAM, and this switch has control.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**GLR — Glare Release**

- 131 — First or second glare, far-end controls, TMAINT
- 133 — Backdown glare due to directed scan, OGT off-hook, any trial, TMAINT
- 207 — Glare detected, 4ESS Switch backs down, first or second trial, TMAINT only
- 478 — Glare occurred on No. 6 OGT — Not final trial
- 479 — Glare occurred on No. 6 OGT on final trial
- 541 — Setup message was received on Q.931 OGT before it was seized
- 865 — Not final handled; ISUP OGT handler received IAM on OGT glare; this end backs down and retries
- 884 — ISUP OGT handler received IAM on OGT — Glare — Far 4E has control
- 899 — ISUP OGT handler received an IAM — Glare — CCR test stopped process IAM
- 952 — Found incoming seizure on two-way DTMF trunk, first trial glare
- 953 — Found incoming seizure on two-way DTMF trunk, final trial glare
- 960 — First trial glare detected on two-way DTMF OGT; far-end controls
- 961 — Final trial glare detected on two-way DTMF OGT; far-end controls
- 1533 — ITUP OGT handler received a CCR on an OGT — Glare — Do not retry

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**GLR — Glare Release (Continued)**

- 1534 — ITUP OGT handler received an IAM on an OGT — Glare — CCR test stopped, process IAM
- 1543 — ITUP OGT handler received an IAM on an OGT, glare — This end backs down and retries
- 1544 — ITUP OGT handler received an IAM on an OGT — Glare — Far 4E has control
- 1835 — OGT received an IAM message — Far end controls — Will rehunt another OGT
- 1836 — OGT received an IAM message — Far end controls — Second try
- 1851 — OGT received an IAM — CCR test backs down
- 1852 — OGT received a CCR while running a CCR test
- 1897 — OGT received a broadband IAM message-far end controls
- 1955 — CRM was received at ISUP OGT. CCR test will stop to process the CRM.
- 1957 — ISUP OGT handler received IAM after sending CRM in a retry — The other switch controls.
- 1958 — ISUP OGT handler received IAM after sending CRM — The other switch controls so we will retry.
- 1959 — ISUP OGT handler received CRM after sending IAM in a retry. The other switch controls.
- 1961 — ISUP OGT handler received CRM after sending IAM. The other switch has control so we will retry.
- 1963 — An IAM message was received by ISUP OGT while waiting for ANI.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

GLR — Glare Release (Continued)

- 1964 — A CRM message was received by ISUP OGT while waiting for ANI.
- 1965 — CCR receive by ISUP OGT while waiting for aNI.

IDB — 800 Service (INWATS) Data Base Failure

- 289 — Time-out while waiting for response from database
- 290 — 800 Service (INWATS) database failure reply, nonexistent number plan area (NPA); reported to VCNTANAL
- 291 — 800 Service (INWATS) database failure reply, VACANT central office code (NNX); reported to VCNTANAL
- 292 — 800 Service (INWATS) database failure reply, unassigned central office code (NNX) (CCIS routing error); reported to VCNTANAL
- 294 — 800 Service (INWATS) database failure reply, vacant line number; reported to VCNTANAL
- 295 — 800 Service (INWATS) database failure reply; database overload

IDS — 800 Service (INWATS) Direct Signaling Failure

- 288 — 800 Service (INWATS) signaling link congestion due to processor signal congestion or terminal threshold exceeded
 - 299 — 800 Service (INWATS) direct signaling failure, no translation data
 - 300 — 800 Service (INWATS) direct signaling failure, CCIS network congestion
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**IDS — 800 Service (INWATS) Direct Signaling Failure (Continued)**

- 301 — 800 Service (INWATS) direct signaling failure, CCIS network blockage
- 302 — 800 Service (INWATS) calls blocked by signaling link failure
- 305 — 800 Service (INWATS) direct signaling failure, CCIS network congestion

IKF — Integrity Check Failure

- 243 — Expanded integrity check failure on delay-dial/ start-dial trunk
- 909 — ISUP OGT received restricted routing category — FEN class prohibits reception
- 1034 — Invalid service identity index (SII) on an RTNR call.
- 2013 — AIN — Invalid office data detected in AINCNT structure detected by translations when the CTW in an AIN trigger is not SSP with subtype SIAQ on an incoming AIN call

INW — 800 Service (INWATS) Out-of-Band Screening Failure

- 287 — Service (INWATS) no auxiliary call register
- 293 — 800 Service (INWATS) database failure reply, nonpurchased number plan area (NPA); reported to VCNTANAL

IUR — Incoming Unreasonable Signal

- 431 — An ANC signal received on an idle No. 6 trunk
- 432 — An ANN signal received on an idle No. 6 trunk
- 433 — An CLF signal received on an idle No. 6 trunk

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**IUR — Incoming Unreasonable Signal (Continued)**

434 —	An COT signal received on an idle No. 6 trunk
435 —	An RLG signal received on an idle No. 6 trunk
436 —	An CB1 signal received on an idle No. 6 trunk
437 —	An RA1 signal received on an idle No. 6 trunk
438 —	An CB2 signal received on an idle No. 6 trunk
439 —	An RA2 signal received on an idle No. 6 trunk
440 —	An CB3 signal received on an idle No. 6 trunk
441 —	An RA3 signal received on an idle No. 6 trunk
442 —	An ADC signal received on an idle No. 6 trunk
443 —	An ADN signal received on an idle No. 6 trunk
444 —	An ADX signal received on an idle No. 6 trunk
445 —	An AFC signal received on an idle No. 6 trunk
446 —	An AFN signal received on an idle No. 6 trunk
447 —	An AFX signal received on an idle No. 6 trunk
448 —	An ADI signal received on an idle No. 6 trunk
449 —	An COF signal received on an idle No. 6 trunk
450 —	An LOS signal received on an idle No. 6 trunk
451 —	An MRF signal received on an idle No. 6 trunk
452 —	An SEC signal received on an idle No. 6 trunk
453 —	An SSB signal received on an idle No. 6 trunk
454 —	An SST signal received on an idle No. 6 trunk
455 —	An VNN signal received on an idle No. 6 trunk
456 —	An CFL signal received on an idle No. 6 trunk
457 —	An CGC signal received on an idle No. 6 trunk

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**IUR — Incoming Unreasonable Signal (Continued)**

- 458 — An NNC signal received on an idle No. 6 trunk
- 1003 — A released MSG was received on idle ISUP trunk
- 1004 — Unexpected MSG received on idle ISUP trunk or ISUP trunk queue for CR
- 1005 — Unexpected COT MSG received on ISUP ICT
- 1411 — Unexpected MSG. Received on an idle ITUP trunk or an ITUP TRK. On queue for a CR
- 1424 — Unexpected COT MSG. Received on an ITUP ICT
- 1426 — A clearforward message was received on an idle ITUP trunk
- 1771 — Unexpected COT message received
- 1780 — Release message received on an idle trunk
- 1788 — Invalid or out of sequence message received on an idle trunk or while a call is on queue for a CR
- 1926 — Unexpected continuity (COT) message received while processing CRM.
- 1928 — Circuit reservation message received on an idle ISUP ICT but type of trunk is invalid.

MAB — Miscellaneous Abandon

- 18 — CAMA abandon before or during position disconnect
- 19 — CAMA abandon, operator keyed in seven digits
- 24 — CAMA ANI abandon, connect to MF receiver
- 30 — CAMA ONI abandon before getting CAMA operator
- 32 — CAMA abandon on CAMA operator queue
- 178 — ICT reset band, nonstable
- 179 — ICT clear forward received

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MAB — Miscellaneous Abandon (Continued)

- 180 — Reset received
 - 250 — Expanded miscellaneous abandon before outpulsing completed
 - 461 — A CLF received on an incoming No. 6 trunk after IAM
 - 788 — Incoming EAS call abandoned
 - 795 — Reset MSG, received on ISUP call that was on queue for CR
 - 796 — Reset MSG, received on ISUP call that was busy to CR
 - 850 — Abandon on DTMF wink start ICT while on DTMF wink start origination queue for call register and DTMF receiver
 - 944 — ISUP incoming handler received release message without a cause parameter
 - 986 — Group reset MSG was received on ISUP call that was on queue for CR
 - 987 — Group reset MSG was received on ISUP call that was busy to CR
 - 989 — ISUP ICT was busy to CR when released MSG was received.
 - 991 — ISUP ICT was on queue for CR when released MSG was received.
 - 993 — ISUP ICT was on queue for CR when release MSG was received.
 - 995 — ISUP ICT was busy to CR when release MSG was received.
 - 1401 — Reset MSG received on an ITUP call that was on queue for a CR
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MAB — Miscellaneous Abandon (Continued)**

- 1402 — Reset MSG received on an ITUP call that was busy to a CR
- 1418 — A group reset MSG was received on an ITUP call that was on queue for a CR
- 1419 — A group reset MSG was received on an ITUP call that was busy to a CR
- 1427 — ITUP ICT was on queue for a CR when a clearforward MSG was received
- 1428 — ITUP ICT was busy to a CR when a clearforward MSGS was received
- 1642 — Maintsk received incoming trunk disconnect (abandon) while TWOSTGDR collecting digits
- 1781 — Release message received while call on queue for a CR
- 1782 — Release message received during call setup
- 1784 — Reset message received while call on queue for a CR
- 1785 — Reset message received while the call is being setup
- 1786 — Group reset message received while call on queue for a CR
- 1787 — Reset message received while the call is being setup
- 1791 — A release message was received during setup without cause parameter
- 1829 — INUP outgoing trunk received a release message before address complete with no cause parameter specified
- 2009 — ISUPOGT handler received a backward release message without a cause parameter
- 2194 — Suspected Fraudulent SDN NRA call being killed (Do Not play any announcement - High and Wet Treatment with No Immediate Reset [AKA Action] is called for.)

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MCA — Misrouted CAMA

- 25 — CAMA misdirected ANI; reported to VCNTANAL
- 33 — CAMA misdirected ONI; reported to VCNTANAL

MNM — Manual Network Management Controls

- 1 — Call blocked by network management billing number (BN) gap control
 - 4 — Cancel to
 - 5 — Cancel from
 - 8 — NM call gap control blocked call
 - 9 — Reroute in effect with allow in-chain option set No idled capacity on via TSG
 - 10 — No idle trunk at via office to offer traffic — TCM = First Link out-of-chain
 - 122 — NM ECOS route cancel control canceled call at OAS/TAS
 - 129 — NM ECOS area cancel control at OAS/TAS
 - 259 — PAS cut-thru call received NM failure return after announcement service
 - 630 — This call has encountered a pre-SD query control for which the action indicated (kill call) calls in (PMO) and SMO may be killed by these controls.
 - 631 — This call has encountered a 10 digit dialed number rate based control (DNRBC), for which the action indicated (kill call), calls segmentation directory (SD), mode of operation (SMO), may be killed by these controls.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MNM — Manual Network Management Controls (Continued)

- 1006 — 4ESS Switch doing OTS function; DNHR cancel control was found applicable
 - 1007 — 4ESS Switch doing OTS function; no reroute trunk found and replace regular RDB mode was in effect
 - 1094 — BOC SSP calls blocked due to NM carrier — Digits call gap control
 - 1355 — Network management carrier and/or code call gap blocked service switching point (SSP) call. Prints ported number gap digits.
 - 2027 — AIN TCAP — Call encountered AIN SOCC controls prior to sending a query to SCP database
-

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MRA — Mass Recorded Announcement

- 50 — Illegal digits encountered, kill call
- 258 — Treatment when DP abandon is received

MSC — Miscellaneous Call Irregularity

- 22 — CAMA no second receiver DP ANI, connect failure
 - 23 — CAMA fail to connect second MF receiver, DP ANI
 - 27 — CAMA operator queue full
 - 36 — CAMA ONI fail to connect incoming trunk — Talking trunk
 - 40 — CAMA ANI failure on CICR call
 - 41 — Multiparty line CICR call not allowed
 - 57 — CCIS outgoing trunk in special outgoing setup state; received reset after ADC received
 - 59 — CCIS outgoing trunk in special outgoing setup state; received reset band signal after ADC received
 - 60 — Go/No-Go screening block; reported to VCNTANAL
 - 61 — INWATS non-routable code, digit translation found INWATS call type and not OSO or database returned 800 Code; reported to VCNTANAL
 - 64 — Transit call has arrived at the 4E (ISC) in an invalid domain
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 67 — Optional parameters UUI in ISUP message were dropped due to length limitations
- 68 — Optional parameter ATP in ISUP message was dropped due to length restrictions
- 77 — MF origination queue is overloaded
- 78 — Main dispenser low priority abandon
- 79 — Main dispenser DP abandon
- 80 — Abandon while on MF origination queue
- 83 — Failure to get E&M incoming trunk on base engineered timing list (BETL) for second start dial timing
- 92 — DP report not loaded; digit buffer congested
- 94 — Network fail ICT-C-OGT
- 97 — Second MF receiver not found
- 98 — Second MF receiver not connected
- 102 — Second MF transmitter not found after network fail
- 103 — Second MF transmitter network connect failure delay dial or wink start
- 104 — Delay dial or wink start time-out, TMAINT
- 106 — PBX direct connect customer-dialed illegal 3-digit prefix code
- 108 — Q.931 disconnect message returned while trunk is in clearing state
- 110 — Second failure to reserve ICT — MF OGT path
- 111 — MF transmitter queue full
- 113 — Second failure to reserve ICT — DP OGT path
- 123 — Time-out, no call register, no queue

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 125 — No room in DP call register queue
 - 126 — Eighth digit received on DP call register queue
 - 132 — EAMFCLRN finished sending post address wink in order to connect announcement for redirection work
 - 136 — BBC incoming slave was found busy when handling incoming setup actions
 - 138 — Common platform adjunct (CPA) destination number was found in the destination number trigger table, but an invalid application type was encountered
 - 141 — Network management returned reroute on to or from hierarchical trunk subgroup controls. Reroute is not applicable to adjunct trunks
 - 142 — Transmit time slot interchange (TTSI) encountered in a common platform adjunct (CPA) routing data block (RDB)
 - 151 — Digit count out of range; Reported to VCNTANAL
 - 156 — Call irregularity reported due to ICT far-end network (FEN) - call type call screening
 - 157 — Blue box fraud persisting on a call — 5-minute time-out.
 - 158 — Blue box fraud detected on a call; enough MF digits received.
 - 159 — Dire-SP reported with no digits
 - 161 — PBX direct connect customer-dialed illegal 3-digit MF prefix
 - 165 — Nonmaintenance call on lock-out trunk
 - 193 — Glare on incoming test line call
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 194 — Certain routing categories (12-15) restricted to intra-network usages
- 198 — CCIS no call register available
- 200 — CCIS OGT received reset while in waiting-for-answer state
- 201 — No CCIS transceiver available
- 211 — Crankback received on CCIS OGT, TMAINT test call
- 214 — ICT clear forward received while on call register queue
- 218 — Unit or carrier failed, CGAP found service circuit for BBFP busy to TR
- 220 — TMAINT call not initiated; no call register
- 221 — TMAINT, outgoing trunk not idle
- 222 — TMAINT, incoming trunk abandoned before digit translation; no ineffective machine attempt work to do
- 284 — Invalid access using GSDV private numbering plan option
- 296 — 800 Service (INWATS) database failure reply; all lines busy
- 313 — Unit or carrier failed; outgoing trunk confused
- 315 — Stable call with confused trunk registers following phase
- 316 — Originating outbound call arriving at ISC on domestic satellite trunk
- 317 — Unit or carrier failed, ICT busy to trunk register
- 318 — Unit or carrier failed, ICT busy to call register
- 319 — Unit or carrier failed, OGT busy to trunk register

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 320 — Unit or carrier failed, OGT busy to call register
- 321 — Unit or carrier failed SCV CKT busy to call register
- 322 — No trunk found for assigned automatic distribution group
- 332 — Received invalid data in a Q.931 setup message from a common platform adjunct (CPA) related to the B1 (4ESS Switch OGT to adjunct) trunk
- 333 — Unexpected RLC message received relating to a busy HO circuit for which a REL message has not been sent
- 334 — Unexpected RLC message received relating to a busy HO circuit for which a REL message has not been sent
- 335 — Unexpected rlc message received relating to a busy HO circuit for which a REL message has not been sent
- 363 — Remote blocking with immediate release (hardware fault) received on outgoing trunk
- 364 — Remote blocking with immediate release (hardware fault) received on incoming trunk
- 459 — CR dedicated word time-out — COT 10 SEC time-out
- 463 — Reject IAM — from TMAD
- 464 — REQ final handling to release the CR from initial final call
- 502 — Data call received on a Network Interconnect (NI) boundary with a User Service Information (USI) parameter that indicates 384 or 1536 kb/s restricted.
- 504 — CR queue entry overflow
- 505 — Clear forward RECD while call queued for CR
- 506 — Call failure MSG while call queued for CR

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 507 — Idle an ICT memory only — For directed phase, all trunk states
- 508 — Idle an OGT memory only — For directed phase, all trunk states
- 509 — Place OGT haw for directed phase zero start case
- 518 — Assist or direct producer callback routed on INTL trunk (in domestic RDD) during special outgoing setup
- 519 — REPODISP — Real-time overload retry (Rehunt and OGT setup) cancellation
- 522 — Two-stage call incoming to ISC traversed satellite; REPODISP killed call
- 523 — 4ESS Switch received signal to send second start dial to PBX ICT-not legal
- 537 — Tried to send message on Q.931 OGT but CNI ring is down; final call
- 538 — Tried to send message on Q.931 OGT but output buffer is full; final call
- 539 — Tried to send Q.931 message on ogt but cni ring was dead; call not finaled
- 540 — Tried to send Q.931 message on OGT but output buffer was full; call not finaled
- 556 — CR occupancy exceeded
- 574 — DSDC queueing on busy limit reached
- 583 — Q.931 disconnect message received while trunk is in clearing state
- 584 — Q.931 disconnect message received while incoming trunk is in SINT confused (SICONFIT) state

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 585 — Q.931 release message received while incoming trunk is in SINT confused (SICONFIT) state
 - 586 — Q.931 release complete message received while incoming trunk is in SINT confused (SICONFIT) state
 - 587 — Q.931 restart message received while incoming trunk is in SINT confused (SICONFIT) state
 - 588 — Q.931 restart acknowledge message received while incoming trunk is in SINT confused (SICONFIT) state
 - 589 — Q.931 disconnect message received while outgoing trunk is in SINT confused (SICONFOT) state
 - 590 — Q.931 release message received while outgoing trunk is in SINT confused (SICONFOT) state
 - 591 — Q.931 release complete message received while outgoing trunk is in SINT confused (SICONFOT) state
 - 592 — Q.931 restart message received while outgoing trunk is in SINT confused (SICONFOT) state
 - 593 — Q.931 restart acknowledge message received while outgoing trunk is in sint confused (siconfot) state
 - 597 — B-Channel call not allowed on a Q.931 incoming trunk
 - 598 — Setup message received but incoming signaling characteristics indicated a one-way out trunk
 - 643 — When SCS final handling got the bad answer id report the call was finaled
 - 650 — When handling an incoming call from a local service provider incoming trunk (for local nodal phase 2), the call was determined to be requesting operator assistance - not valid.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 651 — When handling an incoming call from a local service provider incoming trunk (for local nodal phase 2), the call was determined to be a data call - not valid.
- 652 — A TNS parameter received from a LSP trunk for a Local Nodal call that is terminating to a Local Nodal customer.
- 655 — The Master Location Routing Number (LRN) that is used to populate the Jurisdiction Information Parameter (JIP) in calls from local nodal customers is not provisioned. This is a call irregularity reported only once for a call duration.
- 670 — The codeset 6 facility IE in setup message has an improperly formatted or invalid request
- 672 — Q.931 CR queue was found full when trying to queue for CR on Q.931 ICT
- 673 — Received setup message — Non test call — on maintenance busy Q.931 ICT
- 685 — Release complete message received while in CR queue state on Q.931 ICT
- 686 — Single circuit restart message received in CR queue state on Q.931 ICT
- 695 — Tried to send message for Q.931 ICT but CNI buffer is full
- 696 — Tried to send message for Q.931 ICT but cni ring is down
- 697 — Tried to send message for Q.931 ICT but CNI buffer is full; call not finaled
- 698 — Tried to send message for Q.931 ICT but CNI ring is down; call not finaled

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 704 — The setup message includes an invalid network service facility test call service
 - 710 — ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: CFL treatment
 - 711 — ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: VCA treatment
 - 712 — ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: Reorder Tone Treatment
 - 713 — ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: busy tone treatment
 - 714 — ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: No circuit available treatment
 - 715 — ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: reorder announcement treatment
 - 716 — ISUPOGT handler received a backward failure release while waiting for an answer in a domestic call: reorder announcement (network management) treatment
 - 737 — Call not final handled — Timeout after sending a FAC message on a Q.931
 - 738 — 4ESS Switch has received an invalid ANCR request from the ATP node due to improper formatting, or the node has failed and sent an ANCR fail indication to the switch.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 741 — Failed to send an FAC message from the 1A/1B to the ATP node (ring down or buffer full).
- 746 — Timed out in Wait_ATP state while waiting for a response from the adjunct.
- 747 — A disc message was received from the adjunct while in a Wait_ATP (waiting for response from the adjunct).
- 748 — While waiting for a response from the adjunct for an ANCR part of redirect request, a REL message was received.
- 749 — An REL COM message was received while waiting for a response from the adjunct for a partition or redirect request.
- 750 — A rest message was received while waiting for a positive response from the adjunct.
- 752 — An ATP-ANCR merge operation failed.
- 754 — 4ESS Switch connection to ATP node requested to be final handled.
- 755 — Release complete received in setup state with cause that indicates reorder
- 758 — Release complete received in setup state with cause which indicates PBX NTWK congestion or another anomaly
- 762 — Have reached limit on number of Q.931 OGT to be attempted on a given call
- 763 — Not finaled; setup message returned on Q.931 OGT
- 769 — Not final handled; invalid network specific facility received in setup message
- 776 — OGT INTL call RCVD RST — Waiting for ANS

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 777 — No CRS available for ISUP continuity check request
 - 778 — Test call timed out while waiting for release message
 - 791 — ANI received on EAS incoming call not required — Complete call
 - 831 — Network path hunt failure when trying to connect DTMF receiver to IDTS ICT
 - 840 — CCIS or ISUP OGT INTL call received SSB
 - 851 — Network path hunt failure while trying to connect DTMF receiver to DTMF wink start ICT
 - 867 — ISUP OGT handler failed to find transceiver
 - 868 — ISUP OGT handler failed to reserve network path on final attempt
 - 869 — ISUP OGT handler failed to connect transceiver to OGT on final try
 - 871 — Busy to CR
 - 873 — ADC MSG was returned on ISUP call in stable state
 - 874 — Not final handled; unequipped circuit identification code MSG was received on ISUP trunk that sent reset and is waiting for RLC
 - 876 — ISUP OGT handler could not send COT message because CNI ring is down
 - 877 — CFLISUP OGT handler did not receive ADC before its timer expired
 - 881 — Subsequent call awaiting out complete not allowed when hunting for NSC for Meet-Me Teleconferencing call
 - 882 — ISUP OGT handler had IAM returned to it and decided not to retry
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 886 — CCR message returned to ISUP OGT handler
- 895 — EAS OUTWATS call for which all SCARS were busy
- 900 — Call denied due to INC FEN-Call type call denial screening; reported to VCNTANAL
- 902 — Access tandem office signaling to INC — (CCIST OGT only) received invalid signal while waiting post-addressing acknowledgment wink
- 904 — Access tandem office timed out after 4 seconds of completing outpulsing to interexchange carrier
- 905 — ISUP OGT handler could not send IAM because CNI ring is down
- 913 — More than ten digits received on IDTS ICT while on queue for call register
- 914 — More than ten digits received on IDTS ICT while collecting digits in trunk register
- 920 — IDTS call register queue found full when trying to queue for call register
- 926 — More than 18 DTMF digits received on IDTS or DTMF wink start ICT
- 934 — ISUP ICT could not send SSD MSG because CNI ring was down
- 935 — ISUP ICT could not send SSD MSG because CNI buffers were full.
- 937 — ADC could not be sent on ISUP ICT because CNI buffers are full.
- 939 — ADC could not be sent on ISUP ICT because ring was down.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 941 — ANS could not be sent on MAS call on ISUP ICT because CNI ring was down.
 - 943 — ANS could not be sent on MAS call on ISUP ICT because CNI buffers were full.
 - 945 — ADC could not be sent on PAS or MAS call on ISUP ICT because CNI ring was down.
 - 947 — ADC could not be sent on a PAS or MAS call on an ISUP ICT because the CNI MSG. Buffers were full
 - 949 — Call is denied because another carrier is trying to use routing category reserved for AT&T NTWK.
 - 954 — DTMF transmitter queue full during DTMT outgoing call setup
 - 955 — Network path hunt failed to connect ICT to OGT during DTMF outgoing call setup
 - 964 — Network path hunt failed to connect DTMF OGT to DTMF transmitter
 - 967 — ISUP IAM contains invalid bearer capability parameter
 - 970 — ISUP ICT found this call had traversed too many switches — shuttle routing suspected
 - 973 — No transceivers are available for COT check for ISUP ICT
 - 975 — VPA loop could not be set up for ISUP 4-wire trunk
 - 977 — Maintenance busy checks indicate trunk is locked out
 - 979 — No ISUP CR queue slots available for this call
 - 985 — ISUP trunk timed out while waiting for release complete MSG
 - 988 — COT received on ISUP call that is waiting to play announcement
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 989 — No GOP received for reach handoff — call continues
- 990 — No GOP in ISUP IAM for reach handoff call — the call is killed
- 1002 — Unexpected MSG received on ISUP ICT attached to CR
- 1014 — TC of RPI derived by CIRC.SELEC.CAPAB.ROUTING trunk hunt does not match TC derived by class of service
- 1015 — An invalid CSCI was derived or received, error was detected during CIRC.SELEC.CAPAB.ROUTING trunk hunt
- 1032 — Egress busy crankback; RTNR safer controlled call
- 1046 — Subsequent address message arrived while call was on queue for a CR
- 1047 — Subsequent address message arrived while call was on queue for a CR
- 1060 — Received channel negotiation request on trunk not in the same RDB as original trunk
- 1061 — Received channel negotiation request for channel ID whose TSN is invalid in the 4ESS Switch.
- 1062 — Received channel negotiation request for trunk that is not traffic idle
- 1101 — Too many translations performed on SSP call returned by SCP data base
- 1132 — In servicing positive call processing (PCP) DTMF RCVR queue, detected queue overload
- 1140 — PCPCCP reentering final handling at end of tone or announcement to have CR released

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1156 — PCPCCP in handling sub-account billing account code validation encountered failure to send a query
 - 1157 — PCPCCP in handling sub-account billing account code validation failed to receive a reply to the query
 - 1158 — PCPCCP in handling sub-account billing account code validation received a reply to the query, but the DLN reply contained no data or inconsistent data
 - 1168 — When servicing government emergency telecommunications, the DTMF receiver queue got a receiver but failed to obtain a DTMF receiver (queue overload).
 - 1251 — MF transmitter error on second EA outgoing call attempt to INC
 - 1253 — MF transmitter error on first EA outgoing call attempt to INC via at
 - 1255 — MF transmitter error on first EA outgoing call attempt to IC via AT
 - 1257 — MF transmitter error on first EA outgoing call attempt to IC direct
 - 1303 — An outgoing call to an OSPS position failed to receive an ANI-send off-hook signal on the first attempt
 - 1304 — An outgoing call to an OSPS position failed to receive an ANI-send off-hook signal on the second attempt
 - 1305 — An MF transmitter error on first EA outgoing call attempt to an OSPS
 - 1306 — An MF transmitter error on second EA outgoing call attempt to an OSPS
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1307 — An outgoing call to OSPA position received an abandon from the position during call setup
- 1308 — ISUPOGT handler received a backward release message with illegal announcement ID of none
- 1309 — ISUPOGT handler received a backward release message with announcement ID of audible ring
- 1311 — ISUPOGT handler received a backward release message with announcement ID of busy tone
- 1312 — ISUPOGT handler received a backward release message with announcement ID of test progress tone
- 1313 — ISUPOGT handler received a backward release message with announcement ID of milliwatt tone
- 1317 — ISUPOGT handler received a backward release message with announcement ID of emergency announcement 1
- 1318 — ISUPOGT handler received a backward release message with announcement ID of emergency announcement 2
- 1319 — ISUPOGT handler received a backward release message with announcement ID of special announcement 1
- 1320 — ISUPOGT handler received a backward release message with announcement ID of special announcement 2
- 1321 — ISUPOGT handler received a backward release message with announcement ID of idle guard timing
- 1322 — ISUPOGT handler received a backward release message with announcement ID of high and wet

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1323 — ISUPOGT handler received a backward release message with announcement ID of idle no guard timing
 - 1324 — ISUPOGT handler received a backward release message with announcement ID of 10 DB tone
 - 1325 — ISUPOGT handler received a backward release message with announcement ID of misrouted CAMA
 - 1326 — ISUPOGT handler received a backward release message with announcement ID of SDN egress busy
 - 1327 — ISUPOGT handler received a backward release message with announcement ID of PCP call failure.
 - 1328 — ISUPOGT handler received a backward release message with announcement ID of out of band
 - 1329 — ISUPOGT handler received a backward release message with announcement ID of emergency announcement 3
 - 1330 — ISUPOGT handler received a backward release message with announcement ID of emergency announcement 4
 - 1331 — ISUPOGT handler received a backward release message with announcement ID of emergency announcement 5
 - 1332 — ISUPOGT handler received a backward release message with announcement ID of emergency announcement 6
 - 1333 — ISUPOGT handler received a backward release message with announcement ID of emergency announcement 7
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1334 — ISUPOGT handler received a backward release message with announcement ID of network call denial
- 1335 — ISUPOGT handler received a backward release message with announcement ID of INTL no circuit
- 1338 — ISUPOGT handler received a backward release message with announcement ID of service not active
- 1339 — ISUPOGT handler received a backward release message with announcement ID of vacant MAS
- 1340 — ISUPOGT handler received a backward release message with announcement ID of HICAP out of time slot
- 1341 — ISUPOGT handler received a backward release message with announcement ID of sun transit outage
- 1342 — ISUPOGT handler received a backward release message with announcement ID of vacant 800 number
- 1343 — ISUPOGT handler received a backward release message with announcement ID of disc 800 number
- 1344 — ISUPOGT handler received a backward release message with announcement ID of Temp. disc 800 number
- 1345 — ISUPOGT handler received a backward release message with announcement ID of INFO 1 ANI failure
- 1346 — ISUPOGT handler received a backward release message with announcement ID of LEC egress busy
- 1347 — ISUPOGT handler received a backward release message with announcement ID of waiting for answer timeout

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1348 — ISUPOGT handler received a backward release message with announcement ID of intralata call screening
 - 1349 — ISUPOGT handler received a backward release message with announcement ID of out of area
 - 1371 — ISUPOGT handler received a backward release message with announcement ID of AT&T dial 1
 - 1372 — ISUPOGT handler received a backward release message with announcement ID of logging on busy
 - 1373 — ISUPOGT handler received a backward release message with announcement ID of unallocated number
 - 1374 — ISUPOGT handler received a backward release message with announcement ID of spare
 - 1375 — ISUPOGT handler received a backward release message with announcement ID of destination out of order
 - 1376 — ISUPOGT handler received a backward release message with announcement ID of international subscriber busy
 - 1377 — ISUPOGT handler received a backward release message with announcement ID of E01 — emergency situation
 - 1378 — ISUPOGT handler received a backward release message with announcement ID of E02 — severe weather
 - 1379 — ISUPOGT handler received a backward release message with announcement ID of E03 — Facility trouble
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1380 — ISUPOGT handler received a backward release message with announcement ID of E04 — Local company trouble
- 1381 — ISUPOGT handler received a backward release message with announcement ID of E05 — Airplane crash
- 1382 — ISUPOGT handler received a backward release message with announcement ID of E06 — Hurricane
- 1383 — ISUPOGT handler received a backward release message with announcement ID of E07 — Flood
- 1384 — ISUPOGT handler received a backward release message with announcement ID of E08 — Tornado
- 1385 — ISUPOGT handler received a backward release message with announcement ID of E09 — Forest fire
- 1386 — ISUPOGT handler received a backward release message with announcement ID of E10 — Earthquake
- 1387 — ISUPOGT handler received a backward release message with announcement ID of E11 — Mudslide
- 1388 — ISUPOGT handler received a backward release message with announcement ID of E12 — Major network outage
- 1389 — ISUPOGT handler received a backward release message with ID of E13 — Reserved DOM NM
- 1394 — Digit reception and analysis pidents when translating the carrier ID have the problem that the carrier ID translator can only point to an SSP "check subscribed footprint area" calltype for non- international calls.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1395 — The called number was not in the subscribed footprint area, so that the attempt was made to retranslate the carrier ID (along with the DRTC and circuit code) to get routing to the carrier, but that failed.
 - 1400 — No CRS available for ITUP continuity check request
 - 1403 — An ADC MSG was returned to the 1A while an ITUP call was busy to a CR
 - 1404 — ADC MSG returns on an ITUP call in a stable state
 - 1405 — ADC could not be sent on an ITUP ICT because the CNI buffers are full
 - 1406 — ADC could not be sent on an ITUP ICT because the CNI ring was down
 - 1407 — ADC could not be sent on a PAS call on an ITUP ICT because the CNI ring was down
 - 1408 — ADC could not be sent on a PAS call on an ITUP ICT because the CNI MSG buffers were full
 - 1410 — Unexpected MSG received on an ITUP ICT attached to a CR
 - 1413 — ICT cannot have an echo canceller present on a 64 clear call
 - 1414 — VPA loop could not be set up for an ITUP trunk
 - 1415 — Maintenance busy checks indicate that the trunk is locked out
 - 1416 — No ITUP CR queue slots available for this call
 - 1417 — ITUP IAM was too large to fit in the ITUP CR queue slot
 - 1420 — COT received on an final handling ITUP call that is waiting to play an announcement
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1425 — ITUP TRK test timed out waiting for clear-forward MSG.
- 1429 — ISUPOGT handler received a backward release message with announcement ID of E14 — Reserved DOM NM
- 1430 — ISUPOGT handler received a backward release message with announcement ID of E15 — Reserved DOM NM
- 1431 — ISUPOGT handler received a backward release message with announcement ID of E16 — Reserved DOM NM
- 1432 — ISUPOGT handler received a backward release message with announcement ID of E17 — Reserved DOM NM
- 1433 — ISUPOGT handler received a backward release message with announcement ID of E18 — Reserved DOM NM
- 1434 — ISUPOGT handler received a backward release message with announcement ID of E19 — Reserved DOM NM
- 1435 — ISUPOGT handler received a backward release message with announcement ID of E20 — Reserved DOM NM
- 1436 — ISUPOGT handler received a backward release message with announcement ID of R01 — Dialing plan change — DOM
- 1437 — ISUPOGT handler received a backward release message with announcement ID of R02 — Dialing plan change — DOM

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1438 — ISUPOGT handler received a backward release message with announcement ID of R03 — Dialing plan change — DOM
 - 1439 — ISUPOGT handler received a backward release message with announcement ID of R04 — Dialing plan change — DOM
 - 1440 — ISUPOGT handler received a backward release message with announcement ID of R05 — Dialing plan change — DOM
 - 1441 — ISUPOGT handler received a backward release message with announcement ID of R06 — Dialing plan change — DOM
 - 1442 — ISUPOGT handler received a backward release message with announcement ID of R07 — Dialing plan change — DOM
 - 1443 — ISUPOGT handler received a backward release message with announcement ID of R08 — Dialing plan change — DOM
 - 1444 — ISUPOGT handler received a backward release message with announcement ID of R09 — Dialing plan change — DOM
 - 1445 — ISUPOGT handler received a backward release message with announcement ID of R10 — Dialing plan change — DOM
 - 1446 — ISUPOGT handler received a backward release message with announcement ID of I01 — INTL emergency situation
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1447 — ISUPOGT handler received a backward release message with announcement ID of I02 — INTL severe weather
- 1448 — ISUPOGT handler received a backward release message with announcement ID of I03 — INTL telephone company
- 1449 — ISUPOGT handler received a backward release message with ID of I04 — INTL airplane crash
- 1450 — ISUPOGT handler received a backward release message with ID of I05 — INTL earthquake
- 1451 — ISUPOGT handler received a backward release message with announcement ID of I06 — INTL mudslide
- 1452 — ISUPOGT handler received a backward release message with announcement ID of I07 — INTL fire
- 1453 — ISUPOGT handler received a backward release message with ID of I08 — Reserved INTL NM
- 1454 — ISUPOGT handler received a backward release message with announcement ID of I09 — INTL direct dialing SUSP
- 1455 — ISUPOGT handler received a backward release message with announcement ID of I10 — INTL direct dialing test
- 1456 — ISUPOGT handler received a backward release message with announcement ID of I11 — Dialing plan
- 1457 — ISUPOGT handler received a backward release message with announcement ID of I12 — Dialing plan

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1458 — ISUPOGT handler received a backward release message with announcement ID of I13 — Dialing plan
 - 1459 — ISUPOGT handler received a backward release message with announcement ID of I14 — Dialing plan
 - 1460 — ISUPOGT handler received a backward release message with announcement ID of I15 — Dialing plan
 - 1461 — ISUPOGT handler received a backward release message with announcement ID of I16 — Dialing plan
 - 1462 — ISUPOGT handler received a backward release message with announcement ID of I17 — Dialing plan
 - 1463 — ISUPOGT handler received a backward release message with announcement ID of I18 — Dialing plan
 - 1464 — ISUPOGT handler received a backward release message with announcement ID of I19 — Dialing plan
 - 1465 — ISUPOGT handler received a backward release message with announcement ID of I20 — Dialing plan
 - 1466 — ISUPOGT handler received a backward release message with announcement ID of I21 — Dialing plan
 - 1467 — ISUPOGT handler received a backward release message with announcement ID of I22 — Dialing plan
 - 1468 — ISUPOGT handler received a backward release message with announcement ID of I23 — Dialing plan
 - 1469 — ISUPOGT handler received a backward release message with announcement ID of I24 — Reserved
INTL NM
 - 1470 — ISUPOGT handler received a backward release message with announcement ID of I25 — Reserved
INTL NM
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1471 — ISUPOGT handler received a backward release message with announcement ID of I26 — Reserved INTL NM
- 1472 — ISUPOGT handler received a backward release message with announcement ID of I27 — Reserved INTL NM
- 1473 — ISUPOGT handler received a backward release message with ID of I28 — Reserved INTL NM
- 1474 — ISUPOGT handler received a backward release message with ID of I29 — Reserved INTL NM
- 1475 — ISUPOGT handler received a backward release message with announcement ID of I30 — Reserved INTL NM
- 1476 — ISUPOGT handler received a backward release message with announcement ID of S01 — Spare
- 1477 — ISUPOGT handler received a backward release message with announcement ID of S02 — Spare
- 1478 — ISUPOGT handler received a backward release message with announcement ID of S03 — Spare
- 1479 — ISUPOGT handler received a backward release message with announcement ID of S04 — Spare
- 1480 — ISUPOGT handler received a backward release message with announcement ID of S05 — Spare
- 1481 — ISUPOGT handler received a backward release message with announcement ID of S06 — Spare
- 1482 — ISUPOGT handler received a backward release message with announcement ID of S07 — Spare

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1483 — ISUPOGT handler received a backward release message with announcement ID of S08 — Spare
 - 1484 — ISUPOGT handler received a backward release message with announcement ID of S09 — Spare
 - 1485 — ISUPOGT handler received a backward release message with announcement ID of S10 — Spare
 - 1486 — ISUPOGT handler received a backward release message with announcement ID of S11 — Spare
 - 1487 — ISUPOGT handler received a backward release message with announcement ID of S12 — Spare
 - 1488 — ISUPOGT handler received a backward release message with announcement ID of S13 — Spare
 - 1489 — ISUPOGT handler received a backward release message with announcement ID of S14 — Spare
 - 1490 — ISUPOGT handler received a backward release message with announcement ID of S15 — Spare
 - 1491 — ISUPOGT handler received a backward release message with announcement ID of S16 — Spare
 - 1492 — ISUPOGT handler received a backward release message with announcement ID of S17 — Spare
 - 1493 — ISUPOGT handler received a backward release message with announcement ID of S18 — Spare
 - 1494 — ISUPOGT handler received a backward release message with an ID value greater than 127
 - 1495 — ISUPOGT handler received a backward release message with an ID of 17 which is unassigned
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1496 — ISUPOGT handler received a backward release message with an ID of 31 which is unassigned
 - 1498 — ISUPOGT handler did not receive answer message before its timer expired
 - 1512 — Outgoing trunk cannot send 3-digit carrier ID because first digit of the 4-digit carrier ID is not TELCO BCD 0
 - 1513 — Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 6~digit level without finding Positive Look Up (PLU) entry, checked the 7~digit translator for reserved and found the DN was reserved.
 - 1514 — Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 6~digit level without finding PLU entry, checked the 7~digit translator for reserved and found the DN was not reserved.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1515 — Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found the DN was reserved and not ported out.
- 1516 — Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was ported out.
- 1517 — Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was not reserved and not ported out. Checked the 7~digit translator for reserved and found the DN was reserved.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1518 — Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was not reserved and not ported out. Checked the 7~digit translator for reserved and found the DN was not reserved.
- 1519 — Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Tried to translate the DN at the 10~digit level in the PLU but no entry - was using a 6~digit default PLU routing. Checked the 7~digit translator for reserved and found the DN was reserved.
- 1520 — Switch received its Location Routing Number (LRN) via Integrated Services Digital Network User Port (ISUP) signaling, and found the Destination Number (DN) [retrieved from the ported number General Address Parameter (GAP)] resulted in vacant code upon translation. Tried to translate the DN at the 10~digit level in the PLU but no entry - was using 6~digit default PLU routing. Checked the 7~digit translator for reserved and found the DN was not reserved.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1521 — Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 6~digit level without finding PLU entry. Checked the 7~digit translator for reserved and found the DN was reserved.
- 1522 — Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 6~digit level without finding PLU entry. Checked the 7~digit translator for reserved and found the DN was not reserved.
- 1523 — Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the PHT PLU CALLTYPE found DN was reserved and not ported out.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1524 — Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was ported out.
- 1525 — Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the Final Handling Treatment (FHT) PLU CALLTYPE found DN was not reserved and not ported out. Checked the 7~digit translator for reserved and found the DN was reserved.
- 1526 — Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Translated the DN at the 10~digit level upon finding PLU entry, on the PHT PLU CALLTYPE found DN was not reserved and not ported out. Checked the 7~digit translator for reserved and found the DN was not reserved.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1527 — Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Tried to translated the DN at the 10~digit level in the PLU but no entry - was using 6~digit default PLU routing. Checked the 7~digit translator for reserved and found the DN was reserved.
- 1528 — Switch received its Location Routing Number (LRN) from the Local Number Portability (LNP) Network Control Point (NCP), and found the Destination Number (DN) resulted in vacant code upon translation. Tried to translated the DN at the 10~digit level in the PLU, but no entry - was using 6~digit default PLU routing. Checked the 7~digit translator for reserved and found the DN was not reserved.
- 1529 — A Location Routing Number (LRN) was received as the called party number on an Local Service Provider (LSP)-LOCAL type of Integrated Services Digital Network User Port (ISUP) trunk and upon checking this LRN found that it does not belong to this switch.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1530 — A CCR message was returned to the ITUP OGT handler
- 1536 — ITUP OGT handler had an IAM returned to it — Will retry
- 1537 — ITUP OGT handler had an IAM returned to it and decided not to retry
- 1546 — ITUP OGT handler failed to connect a transceiver the OGT on the final try
- 1547 — ITUP OGT handler failed to find a transceiver
- 1548 — ITUP OGT handler failed to reserve a network path on the first attempt
- 1549 — ITUP OGT handler failed to reserve a network path to ICT — Final try
- 1556 — ITUP OGT handler did not receive ADC before its timer expired
- 1559 — ITUP outgoing trunk received a SEC message during call setup
- 1560 — OGT received a CGC message during call setup
- 1566 — ITUP OGT received a LOS message during call setup

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1567 — ITUP OGT received a SST message during call setup
 - 1568 — ITUP OGT received a ACB message during call setup
 - 1569 — ITUP OGT received a DPN message during call setup
 - 1575 — OGT could not send IAM because called number contained more than 14 digits
 - 1602 — 4ESS TCAP detects errors while processing a response message from the CAS R5 NCP
 - 1603 — Abort message or reject message returned from CAS R5 database
 - 1604 — Query to CAS R5 is blocked by 4ESS Switch due to ACG in effect
 - 1605 — Returned query - Unit data service message
 - 1606 — Response from the CAS R5 database - TCAP error code
 - 1646 — International originating call from a non-ISC switch.
 - 1706 — ISUP EA INTL call, bearer capability of 64R is illegal.
 - 1713 — Translations determined the carrier ID (CID) is illegal for this switch to receive.
 - 1715 — An illegal TNS on ISUP ICT dedicated to SDN was received.
 - 1716 — The trunk is dedicated to SDN and OLI is required but not received.
 - 1724 — Two-State ANI digit collection requested on an LCC, OCC or ETC trunk
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1726 — An invalid controller was encountered when a disconnect or release complete message was received from the common platform adjunct B1 trunk
- 1727 — A logical address from the adjunct billing number trigger table was found but an invalid application type was encountered.
- 1729 — Q.931 LEC switched digital service — No route to transmit network.
- 1730 — Q.931 LEC switched digital service — Specified (setup message) carrier ID has no route to transit network.
- 1731 — Q.931 LEC switched digital service — Prescribed (TSG) carrier ID has no route to transit network.
- 1734 — Q.931 LEC switched digital service — the specified (setup message) carrier id was either unassigned or invalid.
- 1735 — Q.931 LEC switched digital service — The presubscribed (TSG) carrier ID was either unassigned or invalid.
- 1736 — Q.931 LEC switched digital service — Specified CID was designated for intra-lata calls and the called number type was for an inter-lata call.
- 1737 — Q.931 LEC switched digital service — Presubscribed CID was designated for intra-lata calls and the called number type was for an inter-lata call.
- 1738 — Q.931 LEC switched digital service specified CID was designated for intra-lata calls and called number type was for an international call.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1739 — Q.931 LEC switched digital service — Presubscribed CID was designated for intra-lata calls and the called number type was for an international call
 - 1740 — Q.931 LEC switched digital service — Specified CID was designated for inter-lata calls and the called number type was for an intra-lata call.
 - 1741 — Q.931 LEC switched digital service — Presubscribed CID was designated for inter-lata calls and the called number type was for an intra-lata call.
 - 1742 — Q.931 LEC switched digital service — Specified CID was designated for inter-lata calls and the called number type was for an international call.
 - 1743 — Q.931 LEC switched digital service — Presubscribed CID was designated for inter-lata calls and the called number type was for an international call.
 - 1744 — Q.931 LEC switched digital service — Specified CID was designated for combined intra-lata or inter-lata calls and the called number type was for an international call.
 - 1745 — Q.931 LEC switched digital service — Presubscribed CID was designated for combined intra-lata or inter-lata calls and the called number type was for an international call.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1746 — Q.931 LEC switched digital service — Specified CID was designated for international calls and the called number type was for an intra-lata call.
- 1747 — Q.931 LEC switched digital service — Presubscribed CID was designated for international calls and the called number type was for an intra-lata call.
- 1748 — Q.931 LEC switched digital service — Specified CID was designated for international calls and the called number type was for an inter-lata call.
- 1749 — Q.931 LEC Switched digital service — Presubscribed CID was designated for international calls and called number type was for an inter-lata call.
- 1750 — Q.931 LEC switched digital service — Specified CID was designated for combined inter-lata or international calls and the called number type was for an intra-lata call.
- 1751 — Q.931 LEC switched digital service — Presubscribed CID was designated for combined inter-lata or international calls and the called number type was for an intra-lata call.
- 1752 — Q.931 LEC switched digital service — Specified CID was designated for SSP LEC calls and the called number type was for a non-intra-lata or non-LEC call.
- 1753 — Q.931 LEC switched digital service — Presubscribed CID was designated for SSP LEC calls and the called number type was for a non-intra-lata or non-LEC call.
- 1760 — Q.931 LEC switched digital service — Illegal number plan type specified (something other than North America or international).

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1761 — No CR queue slots available
 - 1762 — ICT cannot be used since it is maintenance busy
 - 1763 — The IAM contained an invalid address
 - 1764 — The IAM contained an invalid transmission medium requirement parameter
 - 1765 — An echo suppressor was used on a data call
 - 1766 — CUG required on a non-transit call
 - 1767 — Invalid USI parameter
 - 1768 — ICT could not set up a 4-wire VPA loop
 - 1772 — ICT has received a COT message and can complete final handling
 - 1774 — No CRS available for a continuity check request (CCR)
 - 1775 — ICT could not send the ADC message because the transfer buffer was full
 - 1776 — ICT could not send the ADC message because the CNI ring was down
 - 1777 — ADC message returned while the call was being set up
 - 1778 — ADC message returned on a stable call
 - 1779 — Continuity check request (CCR) test timed out waiting for a release message
 - 1783 — ICT timed out waiting for a release or reanswer message
 - 1789 — Invalid or out of sequence message received during call setup
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1790 — VPN service parameter not received on a GSDN call
- 1792 — Call identified as being from a Resale Carrier, received II or OLI that is not valid for resale
- 1793 — Call identified as being for a Resale Carrier, also requires operator assistance - not allowed
- 1794 — Call identified as being for a Resale Carrier, and data call - not allowed
- 1795 — Call identified as being for a Resale Carrier, has a bad NPA, bad Country Code (4E23 and Later) or is denied as a Directory Assistance call
- 1796 — Translating the stored routing number for a CIC based resale call which was to a Directory Assistance number and failed to provide the normal routing when translated the stored routing number.
- 1797 — First trial failure - No offhook (ANI request) was received from an MF Wink-Start CAMA-ANI-OUT 4XLTOTCMA) kind of trunk. This OGT and transmitter will be idled and the call attempted on another OGT.
- 1798 — First trial failure - received MF transmitter error report while trying to transmit the ANI on an MF Wink-Start CAMA-ANI Outgoing (4XLTOTCMA) kind of trunk. This OGT and MF Transmitter will be idled and the call attempted on another OGT.
- 1799 — First trial failure - received unexpected on-hook from OGT while trying to transmit the ANI on an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk. This OGT and MF Transmitter will be idled and call attempted on another OGT.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1800 — Received a 911 call on a PBX Trunk, but either the LANI was not provisioned or the FEOFC (Far End Office Code) was not provisioned, or neither was provisioned -- Call Irregularity Report only, call not finaled.
 - 1801 — Received a 911 call on a PBX TSG and constructed the routing number (911+FENPA+FEOFC+0 or 911+FENPA+0000 if FEOFC blank). Tried to translate in POTS domain but no good.
 - 1802 — Received a 911 data call on a PBX TSG.
 - 1803 — Second trial failure (final trial) - no offhook (ANI request) was received from an MF Wink-Start CAMA-ANI-OUT 4XLTOTCMA) kind of trunk.
 - 1805 — Second trial failure (final trial) - received unexpected on-hook from OGT while trying to transmit the ANI on an MF Wink-Start CAMA-ANI-OUT (4XLTOTCMA) kind of trunk.
 - 1806 — In Receiving digits on a local NODAL PBX TSG, a dial-around (carrier ID) was received followed by 0+/0-/01+ (for 0+, 911 was not received) or the DAC was received and a North American INWATT (8YY) number was detected.
 - 1807 — Received a dial around code but failed to query either the SD or 2DSA.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1811 — Feature 7285 specifies that certain resell calls be subjected to a new screening via the II/OLI translation process. This call was subjected to that extra screening and blocked (final handled) because of it.
 - 1812 — Default ERPI used on an incoming ECOS voice call and the SII is non-zero. Report only call irregularity.
 - 1813 — Default ERPI used on an outgoing ECOS voice call and the SII is non-zero. Report only call irregularity.
 - 1814 — For an AT&T Digital link phase five call on an LCC type of ISUP trunk for which FEALN is true, received a called party number nature of address set to APN but did not receive an SDN phase 5 OLI. Call will be killed.
 - 1821 — Incoming call from another Interexchange Carrier is rejected as it is a data call
 - 1822 — Incoming call from another Interexchange Carrier is rejected as it is an operator call
 - 1823 — Incoming call from another Interexchange Carrier is rejected as call will not be allowed for this area/ABC digit (3-digit type is set)
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1824 — Incoming call from another Interexchange Carrier is rejected as c-bit is not set and ascit question is no
 - 1825 — Carrier Interconnect call is killed because the result of an LNP query only received an LRN for the Carrier Interconnections feature.
 - 1828 — The ATP node passes facility Disable message to the Q931. The messages might come with validation key and user entered code information
 - 1830 — OGT failed to reserve a network path to the ICT — Will rehunt another OGT
 - 1831 — OGT failed to reserve a network path to the ICT — Final try
 - 1838 — IAM message returned — Rehunt another OGT
 - 1839 — IAM message returned — Final try
 - 1840 — OGT failed to find a transceiver
 - 1853 — CCR message returned
 - 1854 — Timeout waiting for an ADC message
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1860 — OGT received a REL message during call setup with the cause indicating no route to destination
- 1862 — OGT received a REL message during call setup with the cause indicating no user responding
- 1863 — OGT received a REL message during call setup with the cause indicating no answer from user
- 1864 — OGT received a REL message during call setup with the cause indicating call rejected
- 1865 — OGT received a REL message during call setup with the cause indicating number changed
- 1866 — OGT received a REL message during call setup with the cause indicating destination out of order
- 1869 — OGT received a REL message during call setup with the cause indicating network out of order
- 1871 — OGT received a REL message during call setup with the cause indicating switching equipment congestion
- 1872 — OGT received a REL message during call setup with the cause indicating requested channel not available
- 1873 — OGT received a REL message during call setup with the cause indicating USI not authorized
- 1874 — OGT received a REL message during call setup with the cause indicating USI not available
- 1875 — OGT received a REL message during call setup with the cause indicating USI not implemented
- 1876 — OGT received a REL message during call setup with the cause indicating incompatible destination
- 1877 — OGT received a REL message during call setup with the cause indicating normal — Unspecified

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1878 — OGT received a REL message during call setup with the cause indicating resources unavailable — Unspecified
 - 1879 — OGT received a REL message during call setup with the cause indicating service-option not available — Unspecified
 - 1880 — OGT received a REL message during call setup with the cause indicating service-option not implemented — Unspecified
 - 1881 — OGT received a REL message during call setup with the cause indicating invalid message — Unspecified
 - 1882 — OGT received a REL message during call setup with the cause indicating protocol error — Unspecified
 - 1883 — OGT received a REL message during call setup with the cause indicating interworking — Unspecified
 - 1886 — OGT received a REL message after call setup with the cause indicating switching equipment congestion
 - 1888 — In a transit call. The CUG parameter cannot be stored due to CUG not available
 - 1889 — Outgoing trunk could not send IAM because called number contained more than 17 digits
 - 1892 — INUPOGT received a RLC message during setup of a broadband call
 - 1893 — INUPOGT received an unexpected message during setup of a broadband call
 - 1894 — INUPOGT received a RLC during talking (stable) state of a broadband call
 - 1895 — INUPOGT wait for ANS timer expires during setup of a broadband call
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1896 — INUOGT received a REL message during set-up of a broadband call
- 1903 — An AT&T Network Connections (ANC - formerly called RESELL) call was detected to have received a carrier selection indicator showing the caller dialed the carrier code translator contains data causing the switch to block the call.
- 1904 — A call identified as an ANC (AT&T Network Connections) NANP data structures involved call tried to create the PSEUDO-TRUE-BN as per FSD 7323 and the subsequent translate to TRUE-BN and OSPSID failed. As this call is to the 700 NPA, it is being killed with vacant code treatment.
- 1916 — PNG should be outpulsed as called number, but ISUP determined PNG was incorrectly formatted.
- 1917 — Invalid digit count on a LEC LNP non-pots call should be 10.
- 1918 — Received Integrated Services User Part (ISUP) or Message Forwarder (MF) Controller Interface Circuit (CIC) calls are blocked per translation.
- 1922 — Circuit reservation acknowledgement message could not be sent on an INSUP incoming trunk (ICT) because the common network interface (CNI) buffers are full.
- 1923 — Circuit reservation acknowledgement message could not be sent on an ISUPICT because the common network interface (CNI) ring was down.
- 1925 — ISUP incoming trunk (ICT) was on queue for a call register (CR) when a circuit reservation message was received.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1929 — ISUP ICT timed out while waiting for IAM when CRM already received and processed.
 - 1930 — Circuit reservation message has been received on ISUP ICT and IAM contains BC which indicates a BBC call.
 - 1931 — A circuit reservation acknowledgement message was received while an ISUP ICT call was busy to a CR.
 - 1932 — A SSD message could not be sent on an ISUP ICT because at network interconnect boundary and TOT is invalid.
 - 1938 — Invalid network ID received in transit network selection (TNS) parameter at both the access tandem and the AT&T Switch
 - 1939 — Received number of carrier ID digits does not match the allowed number of carrier ID digits indicated in trunk subgroup at both the access tandem and the AT&T Switch
 - 1940 — Received invalid number of carrier ID digits defined by network identification plan
 - 1941 — A transit network selection (TNS) parameter was received for a call from an interexchange carrier (IXC)
 - 1943 — ISUP OGT had a CRM returned and decided no retry.
 - 1947 — The ISUP OGT handler timed out waiting for CRA.
 - 1951 — ISUP OGT has been selected to send CRM on a trunk that does not have OCC type of trunk.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 1953 — A REL or RSC message was received at the ISUP OGT during CRM handling in a retry.
- 1969 — The ISUP OGT handler timed out waiting for CRA and this was a retry.
- 1971 — ISUP OGT handler was invoked to send CRM/BBC call.
- 1972 — The CUG parameter in the IAM message can't be stored
- 1973 — Transit call with CUG indication which can't be passed via TUP.
- 1974 — ATP disable message received from ATP node while busy to CR
- 1976 — The call has been dflt handled during SD processing, and the only call type available indicates query an NCP. Switch is not allowed to do so, call is killed.
- 1979 — The ISUP OGT handler received a backward failure release in a LEC call indicating that audible ringing should be played
- 1984 — ISUP OGT handler received a backward failure release in a domestic call, NCAT treatment.
- 1987 — ISUP OGT handler received a backward failure release in a transit call, busy tone treatment.
- 1994 — ISUP OGT handler received a backward failure release in an international call — INC treatment.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 1997 — ISUP OGT handler received a backward failure release in an international outbound overflow call — Busy tone treatment.
 - 1999 — ISUP OGT handler received a backward failure release in an international outbound overflow call — INC treatment
 - 2006 — An egress busy crankback (EBCBK) was received at a via switch. Send an EBCBK to originating toll switch.
 - 2007 — A call progress message with excessive delay was received by ISUPOGT
 - 2008 — An address complete message with excessive delay was received by ISUPOGT
 - 2032 — Digit reception (DR) LEC AIN before an initial database query (BIQ) data call (DAC) — An illegal condition — No carrier ID information available.
 - 2033 — Digit reception (DR) LEC AIN before an initial database query (BIQ) illegal SSP AIN subtype — No carrier ID information available.
 - 2034 — Digit reception (DR) LEC AIN before an initial database query (BIQ) illegal SSP AIN subtype — Carrier ID information available.
 - 2035 — Digit reception (DR) LEC AIN before an initial database query (BIQ) illegal SSP AIN subtype — Carrier ID information available.
 - 2036 — Digit reception (DR) LEC AIN after an initial database query (AIQ) illegal SSP AIN subtype.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 2037 — Digit reception (DR) LEC AIN before an initial database query (BIQ) an illegal call type was determined while analyzing the called party number.
- 2038 — Digit reception (DR) LEC AIN before an initial database query (BIQ) while analyzing the called party number. no AIN triggers were encountered for a routing data block call type.
- 2039 — Digit reception (DR) LEC AIN before an initial database query (BIQ), no II or OLI parameter exists for an analyze II OLI AIN subtype.
- 2040 — Digit reception (DR) LEC AIN before an initial database query (BIQ), the II or OLI parameter does not correspond to an AIN call for an analyze II OLI AIN subtype.
- 2041 — Digit reception (DR) LEC AIN after an initial database query (AIQ), an illegal call type was determined while analyzing the called party number.
- 2042 — Digit reception (DR) LEC AIN after an initial database query (AIQ), unable to retranslate in POTS domain — There are no routing digits to translate.
- 2043 — Digit reception (DR) LEC AIN after an initial database query (AIQ) and retranslating digits an illegal AIN trigger type was determined.
- 2044 — Digit reception (DR) LEC AIN after an initial database query (AIQ) and retranslating digits from the database, the same exact AIN called number trigger was determined which is invalid.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 2045 — Digit reception (DR) LEC AIN after an initial database query (AIQ) unacceptable routing digit count received.
 - 2046 — Digit reception (DR) LEC AIN after an initial database query (AIQ) translated the SSP information digits as non_NSR and the call type was non-determinant.
 - 2061 — The IBNS routing number used for inbound international terminating operator assisted calls failed to translate into a determinant call type
 - 2062 — MAINTSK extra dig Recv. — on DP CRQ
 - 2063 — Toll switch received an operator requested call which was also identified as a data call
 - 2064 — Switch received a NODAL call requesting operator services or a NODAL resale/wholesale call, but could not translate BN to true BN
 - 2065 — Toll switch receives as operator requested voice call but cannot translate true BN to OSPSID
 - 2067 — **EasyReach®** 1 + 500 Dialing Plan - Bad requery information received from database - This is a Call Irregularity Report
 - 2069 — The TAS or OAS switch get OSPSID but cannot translate OSPSID to call type
 - 2070 — ISUPICT received an out-of-range OSPS ID in the generic operation parameter. Since the OSPS ID is used for routing, the call is final handled, there is no OGT at this time; the OSPS ID is to be dumped in the SVOGT field in the OGT side
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 2099 — A service assist was requested by an NCP database on a DSD call (A800,SDN,PCP,etc.). The TCAP message, forward disconnect, was not received by the switch to clear the service assist. The service assist to the assisting switch will be cleared and the call will be routed. This is a call irregularity report only, the call will not be killed.
- 2103 — CCS7 message has illegal parameter. Drop and print the parameter. The call continues. This is a call irregularity report.
- 2105 — This is for call irregularity trap which reports the failure of the 1B to store ATP or UUI data from the ATP node.
- 2113 — International inbound global software defined network (GSDN) call. The call tried to default handle, but cannot route without Network Control Point (NCP) interaction.
- 2134 — Used to attempt to redirect a call to an AT&T work center when a call is in a pre-ringing state before an ACM is received. If the call cannot be redirected then the caller will hear a network call denial (NCD) database announcement. This could be a call irregularity report.
- 2164 — TSAA egress busy crankback.
- 2166 — TSAA NSN and LRN (received from either the OSPA or NCP) failed routing.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 2167 — A RELEASE message with an ANSI CAUSE code of 26 (can't complete to the ported number) was received.
 - 2168 — The ported number GAP was not received from OSPS on a Local Number Portability (LPN).
 - 2170 — The Local Service Provider (LSP) did a LPN query. The incoming trunk type is LCC, the M bit of the Forward Call Indicator (FCI) parameter is set to zero and a ported number GAP was received. This is a call irregularity.
 - 2171 — The Local Service Provider (LSP) did a LPN query. The incoming trunk type is LCC, the M bit of the Forward Call Indicator (FCI) parameter is set to one and a ported number GAP was received. This is a call irregularity.
 - 2172 — An invalid combination of ISUP LPN parameters was received from OSPS. This is a call irregularity.
 - 2173 — The Local Service Provider (LSP) did a LPN query. The incoming trunk type is LCC, the M bit of the Forward Call Indicator (FCI) parameter is set to one and the ported number GAP is not received. This is a call irregularity.
 - 2174 — The ported number GAP did not contain 10 digits. This is a call irregularity.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 2176 — ACG control due to ATT LNP NCP overload encountered on destination number. This is a call irregularity report.
- 2177 — ACG control due to OSS-initiated control encountered on destination number. This is a call irregularity report.
- 2178 — AT&T LNP NCP has indicated ANI/ Destination Number not portable. This is a call irregularity report.
- 2179 — Return error component received from the AT&T LNP NCP. This is a call irregularity report.
- 2180 — Received reject message from AT&T LNP NCP. This is a call irregularity report.
- 2181 — Received abort message from AT&T LNP NCP database. This is a call irregularity report.
- 2182 — Message received from AT&T LNP NCP was in error. This is a call irregularity report.
- 2183 — An error was found in the SCCP header of a message received from AT&T LNP NCP. This is a call irregularity report.
- 2184 — LNP query timeout. This is a call irregularity report.
- 2185 — Translations encountered unusable routing when translating the Destination Number (DN) after either having launched an LNP query and receiving this switch's called party number (LRN) in the reply or receiving an incoming call from OSPS from which the LRN belonged to this switch.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 2186 — In handling case of switch receiving its own LRN at the terminating switch, retrieved and tried to translate the called party number in the Ported Number Gap and failed to get normal routing.
- 2187 — Translations found invalid LRN for call received on an LSP-Local incoming trunk (ISUP only). Called party number (LRN) must belong to this switch.
- 2188 — Translations found invalid PNG for call received on an LSP-Local incoming trunk (ISUP only). Called party number (LRN) belongs to this switch and the PNG was retrieved and translated but resulted in a FHT calltype..
- 2190 — The call was received on an LSP-Local MF or ISUP incoming trunk and for ISUP the FCI M-bit received was zero. Digits translations of the received called number revealed it was this switch's Local Exchange Routing Guide Assigned Number, but the reply to the LNP query indicates this number is not ported.
- 2193 — A Ported Number Generic Address Parameter that is not formatted correctly was received from a LSP trunk for a local nodal call that is terminating to a local nodal customer.
- 2195 — Handling a reply from Network Routing and Numbering Database (NRNDB) for a non final route and encountered invalid DSN routing.

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 2196 — Handling a reply from Network Routing and Numbering Database (NRNDB) for a non final route and Foreign Administration ID (FAI), received from database does not match data in MCT table.
 - 2208 — Handling a reply from Network Routing and Numbering Database (NRNDB) for a call and received database instruction to dispose of call using no circuit condition (an override should be specified).
 - 2209 — Handling a reply from Network Routing and Numbering Database (NRNDB) for a domestic and numbering database for a domestic call and encountered terminate call condition (see Exception Code for reason).
 - 2210 — Handling a reply from Network Routing and Numbering Database (NRNDB) for an international call and encountered terminate call condition (see Exception Code for reason).
 - 2211 — Handling a query to the Network Routing and Numbering Database (NRNDB) for a domestic call and encountered ACG control that requires the call to be terminated.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

MSC — Miscellaneous Call Irregularity (Continued)

- 2212 — Handling a query to the Network Routing and Numbering Database (NRNDB) for an international call and encountered ACG control that requires the call to be terminated.
 - 2213 — Handling a reply from the Network Routing and Numbering Database (NRNDB) for a call. The database returned a return error component with an error code of missing routing record. For this case the NCP requires the call to be terminated.
 - 2214 — Handling a query to the Network Routing and Numbering Database (NRNDB) for a domestic call and encountered ACG control that requires the call to be default routed.
 - 2215 — Trying to query a Network Routing and Numbering Database (NRNDB) for an international call and encountered ACG control that requires the call to be default routed.
 - 2216 — Trying to query a Network Routing and Numbering Database (NRNDB) and failed to launch the query (see Exception Code for reason). The call will be default routed.
 - 2217 — Handling a reply from the Network Routing and Numbering Database (NRNDB) for a call. The database returned a return error component with an error code of missing routing record. For this case the NCP requires the call to be default routed.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**MSC — Miscellaneous Call Irregularity (Continued)**

- 2218 — Received one of several possible TCAP invalid/erroneous messages from Network Routing and Numbering Database (NRNDB). The call will be default routed.
- 2219 — No reply received from Network Routing and Numbering Database (NRNDB), OGTS0000 timed out before reply to the begin message received. Call will attempt to be routed with switch populated routing data called default routing.
- 2220 — No reply received from Network Routing and Numbering Database (NRNDB), OGTS0000 timed out before reply to a continue message received. Call will attempt to be routed with switch populated routing data called default routing.

NCA — No Circuit Available

- 63 — No circuit found by trunk hunt; reported to VCNTANAL
- 65 — No circuit found by single trunk customer trunk hunt
- 137 — Exhausted routing options for end-to-end class of service call at TAS.
- 140 — CPA trunk hunt failed to find an OGT to the adjunct
- 143 — Exhausted routing options for end-to-end class of service call at OAS.
- 144 — A call incoming to the 4ESS Switch on end-to-end class of service trunk was blocked due to end-to-end class of service trunk reservation.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

NCA — No Circuit Available (Continued)

- 145 — Invalid class of service or routing data for end-to-end class of service call.
 - 404 — SDN off-net not allowed and trunk hunt found off-net TSG as overflow case
 - 416 — Reach did not find a valid routing treatment at the has
 - 417 — Reach did not find a valid routing treatment at the OAS
 - 554 — Reach did not find a valid routing treatment at the terminating AT&T Switch (TAS)
 - 555 — The adjunct is off
 - 556 — CR occupancy exceeded
 - 644 — When the SCS CCPAS call got the bad announcement set report the call was finaled
 - 647 — When SCS final handling got the bad announcement set report the call was finaled
 - 739 — Trunk hunt failed to seize an ANCR provisioned trunk to the adjunct.
 - 649 — When the CCPAS announcement showed the MAS announcement was not available, the call was finaled
 - 880 — Rehunt not allowed on subsequent legs for meet-me teleconferencing call
 - 1010 — The call is final handled when it exhausts the carrier in the OCTCP table (originating carrier and terminating country pair)
 - 1024 — Asset (per-call-control) had DLC control active at data level (not total traffic level), no idle outgoing trunk could be found
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**NCA — No Circuit Available (Continued)**

- 1028 — The 4ESS Switch using RTNR routing failed to find an OGT
- 1033 — All circuits busy for safer routing via MRTT translations
- 1040 — OGT found by trunk hunt for an ISUP required call is not ISUP, INUP, OR Q.931
- 1392 — Outgoing trunk hunt for SSP (Bellcore service switching point) call failed to find idle outgoing trunk.
- 2199 — Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and could not route call.

NCD — Network Call Denial

- 617 — NAI/NCP response indicates deny the call (called number restriction), and the call is blocked before answer supervision is received.
- 618 — NAI/NCP response indicates deny the call (fraud restricted), and the call is blocked before answer supervision is received.
- 619 — NAI/NCP response indicates deny the call (credit restricted), and the call is blocked before answer supervision is received.
- 620 — NAI/NCP response indicates deny the call (nonpayment-calling party), and the call is blocked before answer supervision is received.
- 621 — NAI/NCP response indicates deny the call (nonpayment-called party), and the call is blocked before answer supervision is received.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

NCD — Network Call Denial (Continued)

- 622 — NAI/NCP response indicates deny the call (nonpayment-other party), and the call is blocked before answer supervision is received.
 - 623 — NAI/NCP response indicates deny the call (called number restrictions), and the call is blocked after answer supervision is received.
 - 624 — NAI/NCP response indicates deny the call (fraud restricted), and the call is blocked after answer supervision is received.
 - 625 — NAI/NCP response indicates deny the call (credit restricted), and the call is blocked after answer supervision is received.
 - 626 — NAI/NCP response indicates deny the call (nonpayment-calling party), and the call is blocked after answer supervision is received.
 - 627 — NAI/NCP response indicates deny the call (nonpayment-called party), and the call is blocked after answer supervision is received.
 - 628 — NAI/NCP response indicates deny the call (nonpayment-other party), and the call is blocked after answer supervision is received.
 - 798 — Network call denial/NCP indicates this EAS or CAMA call is delinquent call; call is blocked after answer supervision received
 - 799 — Network call denial/NCP indicates this EAS or CAMA call is delinquent call; call is blocked before answer supervision received
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**NCD — Network Call Denial (Continued)**

- 1130 — Positive call processing capability control procedure (PCPCCP) is killing this call as the switch's BN (ANI) database (Release 2 or 3) indicates this caller is delinquent
- 2111 — A Segmentation Directory (SD) call received a request to deny the call from SD
- 2135 — Used for Blocked International Call Deny Reply Code before answer received. This is a call irregularity report.
- 2136 — Used for Blocked International Call Deny Reply Code after answer received. This is a call irregularity report.
- 2137 — Used for Blocked Domestic Call Deny Reply Code before answer received. This is a call irregularity report.
- 2138 — Used for Blocked Domestic Call Deny Reply Code after answer received. This is a call irregularity report.
- 2139 — Used for Blocked NPA-NXX Deny Reply Code before answer received. This is a call irregularity report.
- 2140 — Used for Blocked NPA-NXX Deny Reply Code after answer received. This is a call irregularity report.
- 2141 — Used for Blocked Country Deny Reply Code before answer received. This is a call irregularity report.
- 2142 — Used for Blocked Country Deny Reply Code after answer received. This is a call irregularity report.
- 2143 — Used for Blocked Country+City Deny Reply Code before answer received. This is a call irregularity report.
- 2144 — Used for Blocked Country+City Deny Reply Code after answer received. This is a call irregularity report.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

NCD — Network Call Denial (Continued)

- 2145 — Used for Blocked World Zone Deny Reply Code before answer received. This is a call irregularity report.
 - 2146 — Used for Blocked World Zone Deny Reply Code after answer received. This is a call irregularity report.
 - 2147 — Used for Blocked Specific Destination Number Deny Reply Code before answer received. This is a call irregularity report.
 - 2148 — Used for Blocked Specific Destination Number Deny Reply Code after answer received. This is a call irregularity report.
 - 2149 — Used for other type of deny call before answer. This is a call irregularity report.
 - 2150 — Used for other type of deny call after answer. This is a call irregularity report.
 - 2151 — Friendly reply code one before answer. This is a call irregularity report.
 - 2152 — Friendly reply code two before answer. This is a call irregularity report.
 - 2153 — Friendly reply code three before answer. This is a call irregularity report.
 - 2154 — Friendly reply code four before answer. This is a call irregularity report.
 - 2155 — Friendly reply code five before answer. This is a call irregularity report.
 - 2156 — Friendly reply code six before answer. This is a call irregularity report.
 - 2157 — Friendly reply code seven before answer. This is a call irregularity report.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**NCD — Network Call Denial (Continued)**

- 2158 — Friendly reply code eight before answer. This is a call irregularity report.
- 2159 — Friendly reply code nine before answer. This is a call irregularity report.
- 2160 — Friendly reply code ten before answer. This is a call irregularity report.

NCS — CCIS National Congestion

- 172 — OGT national switching congestion received
- 173 — OGT national trunk congestion received
- 772 — CCIS or ISUP OGT INTL call RCVD NSC
- 773 — CCIS or ISUP OGT INTL call RCVD NTC
- 838 — CCIS or ISUP OGT INTL call received NSC
- 839 — CCIS or ISUP OGT INTL call received NTC
- 1561 — ITUP OGT received a NNC message during call setup
- 1572 — ITUP OGT received a NNC message after call setup
- 1868 — OGT received a REL message during call setup with the cause indicating no circuit available
- 1989 — ISUP OGT handler received a backward failure release in a transit call, NCA treatment.

NSD — No-Start Dial

- 242 — Expanded no-start dial on delay-dial/start-dial trunk
- 244 — Expanded no-start dial on wink start trunk
- 245 — Expanded no-start dial on one-way outgoing wink start trunk; off-hook when timed out
- 854 — Abandon received on DTMF wink start ICT is no-start dial from previous glare condition

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

NSD — No-Start Dial (Continued)

- 901 — 4ESS Switch office doing at function signaling to INC.
Waiting post addressing acknowledgment wink failed to
receive wink in prescribed time
 - 903 — Access tandem office signaling to INC received steady
off-hook while waiting post-addressing acknowledgment
wink
 - 956 — First trial wink start time-out on DTMF OGT
 - 957 — Final trial wink start time-out on DTMF OGT
 - 958 — First trial failure to get on-hook of wink start signal on
one-way DTMF OGT
 - 959 — Final trial failure to get on-hook of wink start signal on
one-way DTMF OGT
 - 963 — No-start dial time-out on two-way DTMF OGT; this office
controls glare
 - 1259 — Wink pulse (wink, SSD, PAW) too long detected on first
EA outgoing call attempt direct to INC
 - 1260 — Wink pulse (wink, SSD, PAW) too long detected on
second EA outgoing call attempt direct to INC
 - 1261 — Wink pulse (wink, SSD, PAW) too long detected on first
EA outgoing call attempt direct to INC
 - 1262 — Wink pulse (wink, SSD, PAW) too long detected on
second EA outgoing call attempt direct to INC
 - 1263 — Wink pulse (wink, SSD, PAW) too long detected on first
EA outgoing call attempt to INC via AT
 - 1264 — Wink pulse (wink, SSD, PAW) too long detected on
second EA outgoing call attempt to INC via AT
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**NSD — No-Start Dial (Continued)**

- 1265 — Wink pulse (wink, SSD, PAW) too long detected on first EA outgoing call attempt to INC via AT
- 1266 — Wink pulse (wink, SSD, PAW) too long detected on EA outgoing call attempt to IC via AT
- 1267 — Wink pulse (wink, SSD, PAW) too long detected on EA outgoing call attempt to IC via AT
- 1268 — Wink pulse (wink, SSD, PAW) too long detected on first EA outgoing call attempt direct to IC
- 1269 — Wink pulse (wink, SSD, PAW) too long detected on second EA outgoing call attempt direct to IC
- 1270 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call direct to INC. No short winks were detected.
- 1271 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call direct to INC. Short winks were detected.
- 1272 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call direct to INC. No short winks were detected.
- 1273 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call direct to INC. Short winks were detected.
- 1274 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call direct to INC. No short winks were detected.
- 1275 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call direct to INC. Short winks were detected.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**NSD — No-Start Dial (Continued)**

- 1276 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call direct to INC. No short winks were detected.
- 1277 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call direct to INC. Short winks were detected.
- 1278 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. No short winks were detected.
- 1279 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
- 1280 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. No short winks were detected.
- 1281 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
- 1282 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. No short winks were detected.
- 1283 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
- 1284 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**NSD — No-Start Dial (Continued)**

- 1285 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
- 1286 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
- 1287 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
- 1288 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
- 1289 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to INC via AT. Short winks were detected.
- 1290 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1291 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1292 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1293 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**NSD — No-Start Dial (Continued)**

- 1294 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1295 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1296 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1297 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1298 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1299 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1300 — Dedicated WORD TIME-OUT WHILE WAITING FOR WINK PULSE (WINK, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1301 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.
- 1305 — Dedicated word time-out while waiting for wink pulse (wink, SSD, PAW) on EA outgoing call to IC via AT. Short winks were detected.

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**PDA — Partial Dial Abandon**

- 149 — Expanded FH code second stage LP abandon
- 236 — Expanded non-MF abandon with some digits present
- 238 — Expanded MF abandon with some digits
- 833 — Partial dial abandon on IDTS ICT while on queue for call register
- 834 — Partial dial abandon on IDTS ICT while collecting digits in trunk register
- 835 — Partial dial abandon on IDTS ICT while collecting digits in call register
- 856 — Partial dial abandon on DTMF wink start ICT

PDT — Partial Dial Time-out

- 91 — MF partial dial time-out
- 124 — DP partial dial time-out on DP call register queue
- 155 — DP partial dial time-out, with call register linked,
- 249 — Expanded dp partial dial time-out, no call register
- 794 — EAS address not completely received before address time-out on EAS call
- 911 — Partial dial time-out on IDTS ICT while on queue for call register
- 912 — Partial dial time-out on IDTS ICT while collecting digits in trunk register
- 921 — Partial dial time-out on IDTS or DTMF wink start ICT while collecting digits in CR
- 1137 — In attempting to collect sub-account number (SAN) for sub-account billing (SAB), timed out without having collected enough digits — Call irregularity

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

PDT — Partial Dial Time-Out (Continued)

- 1138 — In attempting to collect sub-account number (SAN) for sub-account billing (SAB), timed out without having collected enough digits — Final trial
- 1151 — PCPCCP in attempting to collect SC for SACDS did not receive a complete SC — Call irregularity
- 1152 — PCPCCP in attempting to collect SC for FAX S&F did not receive a complete SC — Call irregularity
- 1153 — PCPCCP in attempting to collect SC for SACDS did not receive a complete SC — Final trial
- 1154 — PCPCCP in attempting to collect SC for fax S&F did not receive a complete SC — Final trial
- 1656 — International originating call two-stage received PDT.
- 1657 — International outbound transport call two-stage received a PDT.
- 1658 — DSD or teleconferencing collect calling station I.D. call two-stage received a PDT.
- 1671 — Two-stage equal access call at an access tandem received partial dial time-out while receiving II + ANI digits.
- 1680 — Two-stage equal access call at an access tandem received partial dial time-out while receiving address digits.
- 1690 — Traditional two-stage call at an access tandem received a partial dial time-out.

PDTO — Partial Dial Time Out

- 1042 — ICT timed out waiting for subsequent digits from a SAM
 - 1043 — ICT timed out waiting for a SAM/SAD message
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**PER — Pulsing Error**

- 14 — CAMA ANI invalid digit MF receiver to TMAINT
- 38 — CAMA ONI digit error, implicate receiver so that when call is finally disposed of a different receiver will be hunted
- 39 — CAMA ONI illegal digit, implicate receiver so that when call is finally disposed of, a different receiver is hunted
- 46 — Not enough digits for further translations; reported to VCNTANAL
- 47 — Too many digits for further translations; reported to VCNTANAL
- 76 — Main dispenser MF digit error
- 81 — DP two state changes prior to completion of early digit timing on immediate start trunk
- 93 — DP too many pulses
- 152 — Dire unacceptable digit count; reported to VCNTANAL
- 153 — Illegal ccis digit present in subsequent signaling unit; reported to VCNTANAL
- 154 — Dire received less than two MF digits reported to VCNTANAL
- 160 — Dire illegal MF digit
- 224 — Trunk maintenance operational test; Invalid digit count
- 226 — TMAINT operational test; Invalid digits, test line
- 227 — TMAINT operational test; OGT scanner number not found in routing data block
- 312 — Two-stage MF 2-out-of-6 tone digit error
- 497 — INV digit count — Not enough — IAM not sent
- 551 — DP digit error — Invalid DP pulse length

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

PER — Pulsing Error (Continued)

- 552 — DP digit error — Invalid interdigit time
 - 568 — Calling station identity could not be collected for DSDC call
 - 679 — Invalid digit found in destination address on Q.931 ICT
 - 779 — A Q.931 incoming SDN DSD call, delete digit 1 also store 10, received with the first digit not equal to a one
 - 789 — EAS international call received MF digit report while sending second start dial wink
 - 790 — EAS international call received mutilated MF digit while sending second start dial wink
 - 793 — EAS call illegally addressed to code-line number
 - 853 — DTMF digit report received for DTMF wink start ICT before wink was sent
 - 897 — Illegal digit found in ISUP IAM
 - 915 — DTMF digit received on IDTS ICT while on call register queue
 - 916 — Illegal DTMF digit received; Not on call register queue
 - 917 — Illegal digit found during PBX prefix screening; reported to VCNTANAL
 - 918 — Illegal DTMF digit received after third digit while on call register queue
 - 919 — Illegal DTMF digit (star or pound) received after third digit, not on IDTS CR queue
 - 923 — Illegal DTMF digit in call register
 - 924 — Illegal DTMF star digit received after third digit
 - 925 — Pound digit (end of dialing) received but not enough digits for translation; reported to VCNTANAL
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**PER — Pulsing Error (Continued)**

- 927 — Illegal DTMF digit found in call register during PBX prefix screening; reported to VCNTANAL
- 930 — Invalid digit count for code line call type on IDTS or DTMF wink start ICT
- 931 — DTMF pound digit received for end of dialing; translations indicate more digits required; reported to VCNTANAL
- 932 — Invalid digit count received for routing data block call type on IDTS or DTMF wink start ICT; Reported to VCNTANAL
- 969 — ISUP IAM contained in invalid called address
- 1044 — Subsequent address message arrived which made total digit count greater than 18
- 1045 — Subsequent address message arrived which made total digit count greater than 18
- 1102 — Unacceptable digit count found on POTS retranslation on SSP call returned by SCP database; Reported to VCNTANAL
- 1133 — In attempting to collect sub-account number (SAN) for sub-account billing (SAB), collected at least one DTMF digit which is not valid for a SAN — Call irregularity
- 1134 — In attempting to collect sub-account number (SAN) for sub-account billing (SAB), collected at least one DTMF digit which is not valid for a SAN — Final trial
- 1141 — PCPCCP in attempting to collect call type indicator for mixed use voice/fax, received a bad digit

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

PER — Pulsing Error (Continued)

- 1142 — PCPCCP in attempting to collect service code for 1 + spontaneous access to call delivery service received an illegal digit or bad service code
 - 1143 — PCPCCP in attempting to collect service code for fax store and forward received an illegal digit or bad service code
 - 1144 — PCPCCP in attempting to collect CTI for an MUVF call received a bad digit — Final trial
 - 1145 — PCPCCP in attempting to collect SC for SACDS received an illegal digit or bad SC — Final trial
 - 1146 — PCPCCP in attempting to collect SC for a fax S&F received an illegal digit or bad SC — Final trial
 - 1159 — PCPCCP in handling sub-account billing account-code validation, final trial fails call as received SAN digits did not match any set in customer pre-assigned value list (PVL)
 - 1160 — Equal access MF SSP incoming call; invalid ANI sequence received
 - 1163 — Equal access MF SSP incoming call; no ANI sequence received
 - 1164 — Equal access MF outpulsing program in handling an AT&T **MEGACOM**® 800 Telecommunications Service to another IXC found there was no dialed number in the call register
 - 1409 — ITUP IAM contained an invalid called address
 - 1501 — Illegal digit on CCS7 transit call
 - 1502 — Number of digits received outside legal range for CCS7 transit call
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**PER — Pulsing Error (Continued)**

- 1503 — Unacceptable digit count on a CCS7 transit call
- 1505 — Too few digits to determine call type on a CCS7 transit call
- 1508 — Illegal digit on a TUP inbound call
- 1509 — Digit count outside the acceptable range for a TUP inbound call
- 1510 — Unacceptable digit count on a TUP inbound call
- 1640 — MAINTSK received MF digits early while in process of sending one or two winks
- 1641 — MAINTSK received mutilated MF digit(s) report for MF receiver
- 1647 — DSD or teleconferencing collect calling station detected mutilated MF digits
- 1648 — International outbound transport call detected mutilated MF digits
- 1649 — International originating call detected mutilated MF digits
- 1653 — DSD or teleconferencing collect calling station I.D. call failed to receive a KP digit.
- 1654 — International outbound transport call failed to receive a KP digit.
- 1655 — International originating call failed to receive a KP digit
- 1659 — International originating call two-stage received too many digits.
- 1660 — International outbound transport call two-stage received too many digits

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

PER — Pulsing Error (Continued)

- 1661 — DSD or teleconferencing collect calling station I.D. call two-stage received too many digits.
 - 1662 — International originating call two-stage received a report of illegal digit
 - 1663 — International outbound transport call two-stage received report of illegal digit.
 - 1664 — DSD or teleconferencing collect calling station I.D. call two-stage received illegal digits
 - 1665 — International originating call two-stage received illegal KP+ST report on non-EA call.
 - 1666 — International outbound transport call two-stage received illegal KP+ST report on non-EA call.
 - 1667 — DSD or teleconferencing collect calling station I.D. call two-stage received an illegal KP+ST report on a non-EA call.
 - 1668 — DSD or teleconferencing collect calling station I.D. call two-stage did not collect 10 digits for CSI.
 - 1669 — Two-stage equal access call at an access tandem detected a mutilated digit.
 - 1670 — Two-stage equal access call at an access tandem received permanent signal time-out during ANI digits.
 - 1672 — Two-stage equal access call at an access tandem received no KP digit in either ANI sequence or address digits.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**PER — Pulsing Error (Continued)**

- 1673 — Two-stage equal access call at an access tandem and II + ANI or address digits exceeded maximum number.
- 1674 — Two-stage equal access call at an access tandem detected illegal MF digit.
- 1675 — Two-stage equal access call at an access tandem detected KP + ST address digits.
- 1676 — Two-stage equal access call at access tandem detected address digits exceeding 18 digits.
- 1678 — Two-stage equal access call received and the number of II + ANI digits was not 5 or 12.
- 1682 — Traditional two-stage call at access tandem received no KP digit with the address digits.
- 1683 — Traditional two-stage call at an access tandem received too many address digits.
- 1684 — Traditional two-stage call at an access tandem detected on illegal MF digit.
- 1685 — Traditional two-stage call at an access tandem detected illegal KP + ST address digits.
- 1687 — Traditional two-stage call at an access tandem detected an invalid digit count OIF less than 3 digits.
- 1688 — Traditional two-stage call at an access tandem detected a mutilated MF digit.
- 1711 — Digit count is out of range on EA SSP ISUP call.
- 1712 — The digit count is out of service at access tandem on ISUP ICT.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**PER — Pulsing Error (Continued)**

- 1817 — Illegal digit received on an INUP trunk for an inbound call
- 1818 — Digit count not in acceptable range for an inbound INUP call
- 1819 — Unacceptable digit count for call type returned from translations on INUP inbound call
- 1924 — ISUP initial address message (IAM) contained an invalid called party number nature of address.
- 1927 — ISUP initial address message (IAM) contained an invalid numbering plan for test call in called party number.
- 1935 — ISUP IAM contained an invalid called party number nature of address

PHF — Path Hunt Failure

- 135 — Failed to reserve network path for either master or slave trunk
- 460 — Fail to connect loop to an incoming No. 6 trunk
- 474 — OGT_C_XCUR connect fail — Not final trial
- 475 — OGT_C_XCVR connect fail — Final trial
- 524 — Path hunt failure while trying to reserve network path between ICT and Q.931 OGT
- 648 — When network_connect returned fail for SCS CCPAS call, the call was finaled
- 740 — Network path hunt failure while trying to reserve a path between an incoming trunk and the P1 SCS port.
- 743 — ATP/ANCR partition operation failed.

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**PHF — Path Hunt Failure (Continued)**

- 744 — The ATP/ANCR redirection operation failed.
- 906 — ISUP OGT handler failed to connect transceiver to OGT on first try
- 907 — ISUP OGT handler failed to reserve network path on first attempt
- 971 — Transceiver could not be connected for COT check for ISUP ICT
- 1131 — In service positive call processing (PCP) DTMF RCVR queue, obtained RCVR but failed to connect RCVR to the ICT — Path hunt failed
- 1155 — PCPCCP in trying to convert a one-way intra-buffer connection between an ICT and DTMF receiver to a two-way connection (after 1 + SACDS or fax S&F customer entered pound), encountered network path hunt failure
- 1167 — When servicing government emergency telecommunications, the DTMF receiver queue got a receiver but failed to connect it to the ICT (path hunt failed).
- 1545 — ITUP OGT handler failed to connect a transceiver TOT HE OGT on the first try
- 1643 — DSD or teleconferencing collect calling station I.D. call failed second attempt to connect MF receiver
- 1644 — International originating call hunted a second MF receiver but failed to connect receiver
- 1645 — International outbound transport call hunted a second MF receiver but failed to connect receiver

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

PHF — Path Hunt Failure (Continued)

- 1677 — Two-stage equal access call at an access tandem hunted an MF receiver but failed to connect.
- 1681 — Traditional two stage call at an access tandem hunted an MF receiver but failed to connect.
- 1841 — OGT failed to connect to its transceiver — Will rehunt another OGT
- 1842 — OGT failed to connect to ITS transceiver — Second try

PSE — Pulsing Error

- 1810 — MAINDSPN found report from CCITT #5 ICT with KP digit arriving too soon.

PST — Permanent Signal Time-Out

- 90 — MF permanent signal time-out
 - 248 — Expanded DP permanent signal time-out; no call register
 - 642 — DPLS ICT time-out on digit error timing
 - 910 — Permanent signal time-out on IDTS ICT
 - 922 — Permanent signal time-out on DTMF wink start ICT
 - 1135 — In attempting to collect sub-account number (SAN) for sub-account billing (SAB), timed out having collected no digits — Call irregularity
 - 1136 — In attempting to collect sub-account number (SAN) for sub-account billing (SAB), timed out having collected no digits — Final trial
 - 1147 — PCPCCP in attempting to collect SC for SACDS received no more digits after the initial pound (#) — Call irregularity
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**PST — Permanent Signal Time-Out (Continued)**

- 1148 — PCPCCP in attempting to collect SC for fax S&F received no digits after the initial pound (#) — Call irregularity
- 1149 — PCPCCP in attempting to collect SC for SACDS received no digits after the initial pound (#) — Final trial
- 1150 — PCPCCP in attempting to collect SC for fax S&F received no digits after the initial pound (#) — Final trial
- 1650 — International originating call and two-stage received permanent signal time-out
- 1651 — DSD or teleconferencing collect calling station I.D. call received a PST.
- 1652 — International outbound transport call and two-stage received PST.
- 1679 — Two-stage equal access call at an access tandem received permanent signal time-out during address digits.
- 1689 — Traditional two-stage call at an access tandem received a permanent signal time-out.

QPE — Q.931 Protocol Error

- 69 — Call state mismatch on Q.931 incoming trunk in post setup state
- 70 — Call state mismatch on Q.931 incoming trunk in setup state
- 71 — Call state mismatch on Q.931 outgoing trunk in post setup state
- 72 — Call state mismatch on Q.931 outgoing trunk in setup state

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 73 — Invalid facility message format received while call was in the active state, contained both a network specific facilities IE a codeset 6 facility IE
 - 107 — Not reported to final; time-out occurred while waiting for Q.931 clearing message
 - 516 — Received illegal digit in Q.931 setup message
 - 525 — Time-out after sending setup message on Q.931 OGT (first try)
 - 526 — Time-out after sending setup message on Q.931 OGT — Final try
 - 527 — Time-out waiting for a message after call proceeding message has been received
 - 528 — Mandatory information element was missing in facility message
 - 542 — Invalid message was received on Q.931 OGT before it was seized
 - 543 — Invalid message received on Q.931 OGT while in setup state
 - 544 — Invalid clearing message received while busy to CR; rehunt new OGT
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 545 — Invalid restart ACK message received on Q.931 OGT while busy to CR
 - 546 — Invalid message received on Q.931 OGT while waiting for answer
 - 547 — Invalid message received on Q.931 OGT while in talking state
 - 548 — Disconnect message received while trying to set up call on Q.931 OGT
 - 549 — Disconnect received in setup state with cause indicating reorder
 - 562 — Disconnect received in setup state with cause indicating pbx network congestion or another anomaly
 - 563 — Release message received while trying to set up call on Q.931
 - 564 — Release complete received while trying to set up call on Q.931 OGT
 - 576 — Q.931 disconnect message received while trunk is in idle state
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 577 — Q.931 release message received while trunk is in idle state
 - 578 — Q.931 restart message received while trunk is in idle state
 - 579 — Q.931 release message received while trunk is in incoming stable state
 - 580 — Q.931 release message received while trunk is in outgoing stable state
 - 581 — Q.931 release complete received while trunk is in incoming stable state
 - 582 — Q.931 release complete received while trunk is in outgoing stable state
 - 594 — Mandatory information element missing in Q.931 disconnect message
 - 595 — Mandatory information element missing in Q.931 disconnect message
 - 596 — The Billing Number (BN) Information Element (IE) was missing from a Q.931 Setup Message for a service that requires the BN IE.
 - 599 — An invalid TNS parameter was received on a Q931 ICT at an access
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**QPE — Q.931 Protocol Error (Continued)**

- 600 — Second timeout after sending a setup message on a CPA outgoing trunk with no adjunct logical address
- 601 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 0
- 602 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 1
- 603 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 2
- 604 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 3
- 605 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 4
- 606 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 5
- 607 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 6
- 608 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 7
- 609 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 8
- 610 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 9
- 611 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 10
- 612 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 11
- 613 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 12

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**QPE — Q.931 Protocol Error (Continued)**

- 614 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 13
- 615 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 14
- 616 — Second timeout after sending a setup message on a CPA outgoing trunk with adjunct logical address 15
- 640 — A Q.931 DISC message was received while waiting for answer — Cause indicates a reorder announcement
- 671 — Setup message received but mandatory bearer capability information element missing on Q.931 ICT
- 674 — Bearer capability invalid for data call on Q.931 ICT
- 675 — One of bearer capability information elements field in setup message is invalid for Q.931 ICT.
- 676 — At end of message but mandatory destination address information element not found on Q.931 ICT
- 677 — Non-subscribed network specific facility found on Q.931 ICT
- 678 — Destination address type invalid on Q.931 ICT
- 680 — Invalid digit found in destination address on Q.931 ICT
- 681 — Invalid message received in idle state on Q.931 ICT
- 682 — Invalid message received while in CR queue state on Q.931 ICT
- 683 — Disconnect message received while in CR queue state on Q.931 ICT
- 684 — Release message received in CR queue state on Q.931 ICT
- 687 — Invalid message was received while in incoming busy to CR state for Q.931 ICT

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**QPE — Q.931 Protocol Error (Continued)**

- 688 — Disconnect message received in incoming busy to CR state on Q.931 ICT
- 689 — Release message received while in incoming busy to CR state on Q.931 ICT
- 690 — Release complete message was received while in incoming busy to cr state on Q.931 ICT
- 691 — Single circuit restart message received in incoming busy to CR state on Q.931 ICT
- 692 — Invalid message received while in incoming busy to TR state on Q.931 ICT
- 693 — Invalid message received on Q.931 ICT while in trunk connected to dedicated TSI state
- 694 — Invalid message received on Q.931 ICT while in customer call to PAS state
- 699 — Received a setup message with a parameterized NSF IE with the SDVG value in the parameterized field but did not also receive a calling party IE with a 10 digit Calling Party Number (CPN) or the TSG subscription bit for this feature was not set to Y.
- 700 — Invalid message was received on a Q.931 ICT while in the ICTCSFPP state and connected to a final announcement
- 701 — Invalid message was received on a Q.931 ICT while in the ICTCSFPP state and connected to a CCPAS announcement
- 702 — Mandatory Q.931 codeset 6 IES were not found in a setup message which requires codeset 6.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 703 — A mandatory user entered code IE was missing from a Q.931 setup message.
 - 742 — Received a release complete or disconnect message with an improperly formatted codeset 6 facility IE with operation value = invoke ATP on a Q.931 OGT (CPA) B1 while busy to a CR.
 - 753 — 4ESS Switch connection to ATP node requested to be final handled.
 - 759 — Restart message received while trying to set up call on Q.931 OGT
 - 766 — Disconnect message with invalid CS6 facility IE and operation equals "redirect" or "billing" received while trying to setup a call
 - 767 — Not final handled; more than 64 octets of MAUD was received in message from PBX
 - 768 — Not final handled; invalid network specific facility received in setup message
 - 1026 — Mandatory information element missing in facility message
 - 1035 — Timeout waiting for a message after a call proceeding message has been received on a CPA B1 outgoing trunk
 - 1036 — Invalid clearing message received on a Q.931 OGT (CPA B1) while busy to a CR
 - 1037 — Timeout after sending a setup message on a Q.931 OGT with no adjunct logical address
(For both first and second timeout)
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**QPE — Q.931 Protocol Error (Continued)**

- 1038 — Timeout after sending a setup message on a CPA
Q.931 OGT with adjunct logical address 15
(For both first and second timeout)
- 1039 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 14
(For both first and second timeout)
- 1048 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 13
(For both first and second timeout)
- 1049 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 12
(For both first and second timeout)
- 1050 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 11
(For both first and second timeout)
- 1051 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 10
(For both first and second timeout)
- 1052 — Q.931 setup message requested too many nonallowed
facilities in NSF information element
- 1053 — Q.931 setup message contained too many NSF
information elements
- 1054 — Setup message received on a Q.931 trunk from a
conversant with information in the facility IE

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 1055 — Setup message received on a Q.931 trunk from a conversant was missing the mandatory facility IE
 - 1056 — The mandatory facility IC is missing when a facility message is received in the setup state on a conversant trunk
 - 1057 — Improperly formatted facility IE in the facility message received in the setup state on a conversant trunk
 - 1058 — Field in the billing number IE in the setup message was found to be invalid on a Q931 ICT
 - 1059 — Field in the facility IE in the setup message was found to be invalid on a Q.931 ICT
 - 1063 — Timeout after sending a setup message on a CPA Q.931 OGT WITH adjunct logical address 9
(For both first and second timeout)
 - 1064 — Timeout after sending a setup message on a CPA Q.931 OGT WITH adjunct logical address 8
(For both first and second timeout)
-

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**QPE — Q.931 Protocol Error (Continued)**

- 1065 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 7
(For both first and second timeout).
- 1066 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 6
(For both first and second timeout).
- 1067 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 5
(For both first and second timeout).
- 1068 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 4
(For both first and second timeout).
- 1069 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 3
(For both first and second timeout).
- 1070 — Setup message on Q.931 call by call trunk was missing
mandatory network specific facilities information element
- 1071 — Invalid service was requested in setup message on
Q.931 ICT
- 1072 — Setup message was received on Q.931 trunk with
requested service that is not subscribed
- 1073 — Timeout after sending a setup message on a CPA
Q.931 OGT WITH adjunct logical address 2
(For both first and second timeout).

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 1074 — Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 1 (For both first and second timeout).
 - 1075 — Timeout after sending a setup message on a CPA Q.931 OGT with adjunct logical address 0 (For both first and second timeout).
 - 1076 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address.
 - 1077 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 15.
 - 1078 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 14.
 - 1079 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 13.
 - 1080 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 12.
 - 1081 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 11.
 - 1082 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 10.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**QPE — Q.931 Protocol Error (Continued)**

- 1083 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 9.
- 1084 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 8.
- 1085 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 7.
- 1086 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 6.
- 1087 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 5.
- 1088 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 4.
- 1089 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 3.
- 1090 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 2.
- 1091 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 1.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 1092 — Timeout waiting for a message after a progress message has been received on a CPA Q.931 OGT (B1) with adjunct logical address 0.
 - 1104 — Received a disconnect or a release complete message with an improperly formatted codeset 6 facility IE and with operation value = bill on a Q.931 OGT (OPA) B1 while busy to ACR
 - 1105 — Received a disconnect or a release complete message with an improperly formatted codeset 6 facility IE and with operation value = redirect on a Q.931 OGT (OPA) B1 while busy to ACR
 - 1576 — Q.931 release complete message with CS = 81 received while in the Incoming Setup State
 - 1577 — Q.931 release complete message with CS = 81 received while in the Incoming Stable state
 - 1578 — Q.931 release complete message with CS = 81 received while in the Outgoing Setup state
 - 1579 — Q.931 release complete message with CS = 81 received while in the Outgoing Stable state
 - 1580 — Q.931 release complete message with CS = 81 received while in Clearing state
 - 1581 — A setup message was received in the Incoming Setup state
 - 1582 — A setup message was received on a Q.931 ICT that is in the Incoming Stable state
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**QPE — Q.931 Protocol Error (Continued)**

- 1583 — A setup message was received on a Q.931 OGT that is in the outgoing Stable state
- 1584 — An outgoing call failed the second rehunt when a release complete with Cause 44 was received.
- 1585 — A setup message was received on a Q.931 OGT that is in the Outgoing Setup state
- 2048 — ATP ICT (P2) received "CLEAR_OGT_WAIT" subtype facility message — ATP incoming trunk was busy to CR.
- 2049 — ATP ICT (P2) received "CLEAR_OGT_WAIT" subtype facility message while P2 was on queue for CR.
- 2050 — ATP ICT (P2) received "CLEAR_OGT_WAIT" subtype facility message while P2 was system integrity confused.
- 2051 — ATP P2 (ICT) received an unexpected "CLEAR_OGT_WAIT" subtype facility message while in clearing state. (trap only)
- 2052 — ATP P2 (ICT) timed out after receiving "CLEAR_OGT_WAIT" subtype facility message. (trap only)
- 2053 — For a Q.931 ATP call, P1 could not pass a disconnect message to P2 while P2 (ICT) was on queue for a CR.
- 2054 — ATP call could not pass a disconnect message from P1 to P2 while P2 was busy to a CR.
- 2055 — ATP call could not pass a disconnect from P1 to P2 while P2 was busy to a CR.
- 2056 — ATP could not pass disconnect from P1 to P2 while P2 (ICT) was connected to CDTSDI or SCS announcement.
- 2057 — ATP call could not pass disconnect from P1 to P2 while P2 was in ICT system integrity confused state.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 2058 — ATP call could not pass disconnect from P2 to P1 while P1 was in OGT SINT confused state.
 - 2059 — An ATP Q.931 call could not pass a disconnect from P2 to P1 while P1 was in OANS or outgoing talking state.
 - 2060 — An unexpected message was received from the ATP node. Trap message printed includes message type.
 - 2071 — Service not allowed for non-operator feature.
 - 2077 — Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 34, no circuit available. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.
 - 2078 — Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 41, temporary failure. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.
 - 2079 — Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 42, network congestion. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.
 - 2080 — Disconnect or relcomplete message received on a Q.931 outgoing trunk while in setup stage with a cause value of 63, service or option not available, unspecified. The call is eligible for automatic routing, this is a call irregularity report only, the call will not be killed.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 2081 — Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 34, no circuit available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
 - 2082 — Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 41, temporary failure. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
 - 2083 — Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 42, switching equipment congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
 - 2084 — Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 44, channel not available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 2085 — Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 47, resource unavailable/unspecified. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
- 2086 — Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 58, bearer capability not available. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
- 2087 — Relcomplete message received on a INUP outgoing trunk while in setup with a cause value of 63, service option available/unspecified. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
- 2088 — Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 1, switching equipment congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
- 2089 — Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 2, circuit group congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 2090 — Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 3, national network congestion. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
 - 2091 — Relcomplete message received on a ITUP outgoing trunk while in setup with a signal value of 5, call failure. The call is eligible for automatic routing. This is a call irregularity report only. The call will not be killed.
 - 2092 — ISUP release message received with cause 34 (no circuit available) triggered route advance in setup state. This is a call irregularity report only.
 - 2093 — ISUP release message received with cause 41 (temporary failure) triggered route advance in setup state. This is a call irregularity report only.
 - 2094 — ISUP release message received with cause 42 (switching equipment congestion) triggered route advance in setup state. This is a call irregularity report only.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

QPE — Q.931 Protocol Error (Continued)

- 2095 — ISUP release message received with cause 44 (requested circuit not available) triggered route advance in the setup state. This is a call irregularity report only.
 - 2096 — ISUP release message received with cause 47 (resource unavailable - unspecified) triggered route advance in setup state. This is a call irregularity report only.
 - 2097 — ISUP release message received with cause 58 (bearer capability not presently available) triggered route advance in setup state. This is a call irregularity report only.
 - 2098 — ISUP release message received with cause 63 (service/option not available - unspecified) triggered route advance in setup state. This is a call irregularity report only.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**RQA — Multifrequency Receiver Queue Abandon**

- 20 — CAMA abandon while on DP-ANI MF receiver queue
- 830 — Abandon received on IDTS queue for DTMF receiver

SGT — CCIS Signaling Trouble

- 167 — Signaling link congestion; cancel initial address messages; CCIS call failure received sent on ICT
- 176 — OGT message refusal received
- 177 — OGT time-out
- 182 — ICT time-out
- 183 — Call failure received on idle trunk; no call affected
- 185 — Bad message on one trunk; no call affected
- 186 — No initial address message following continuity; probably previous call
- 187 — No initial address message following clear forward
- 188 — No response to reset, put HAW
- 189 — Different initial address message received on ICT
- 190 — Backward/forward signal not received, trunk register only case
- 195 — OGT no signal link
- 196 — ICT no signal link

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**SGT — CCIS Signaling Trouble (Continued)**

- 199 — Heading code not equal to subsequent signaling unit, terminal hardware
- 203 — No link available when sending initial address message
- 215 — Unequipped label response from CCIS, first or second trial, trunk removed from service directly by CCIS
- 314 — Unit or carrier failed; incoming trunk confused
- 469 — Total signaling failure on chosen OGT (Rehunt)
- 495 — Fail to send outgoing message
- 858 — A continuity check message could not be sent by the outgoing TRK handler because the CNI ring was down
- 859 — A continuity check message could not be sent by the outgoing TRK handler because there were no buffers available
- 860 — A call was retried when an IAM was returned to the outgoing trunk handler
- 862 — Not final handled; UCIC message was received on ISUP OGT; will retry
- 863 — Not final handled — ISUP OGT handler could not send out IAM due to CNI problem; will retry
- 866 — ISUP OGT handler could not send IAM because no buffers left
- 875 — ISUP OGT handler could not send COT message because all message buffers are in use
- 885 — COT message returned to OGT handler for call on second try
- 889 — Not final handled — CIT message
- 908 — UCIC message was received on ISUP OGT, no retry

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**SGT — CCIS Signaling Trouble (Continued)**

- 1531 — ITUP OGT handler could not send a CCR because the CNI buffers are full
- 1532 — ITUP OGT handler could not send a CCR because the CNI ring is down
- 1535 — ITUP OGT handler could not send out an IAM due to CNI problem — will retry
- 1538 — ITUP OGT handler could not send an IAM because the CNI buffers are full
- 1539 — ITUP OGT handler could not send an AIM because the CNI ring is down
- 1552 — COT message returned to OGT handler, will retry
- 1553 — COT message returned to OGT handler for a call on second try
- 1554 — ITUP OFT handler could not send COT message because the CNI buffers are full
- 1555 — ITUP OGT handler could not send a COT message because the CNI ring is down
- 1558 — ITUP OGR handler received a blocking message during setup on final try
- 1832 — OGT could not send an IAM message — will rehunt another OGT
- 1833 — OGT could not send an IAM message because the transfer buffer was full
- 1834 — OGT Could not send an IAM message because the CNI ring was down
- 1845 — Could not send the COT message because the transfer buffer was full

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**SGT — CCIS Signaling Trouble (Continued)**

- 1846 — Could not send the COT message because the CNI ring was down
- 1847 — COT message returned during setup — Will rehunt another OGT
- 1848 — COT message returned during setup — Second try
- 1849 — Could not send the CCR message because the transfer buffer was full
- 1850 — Could not send the CCR message because the CNI ring was down
- 1856 — OGT received a BLO message during setup — Second try
- 1944 — ISUP OGT had a CRM returned to it and decided not to retry.

STO — Signaling Time-Out

- 462 — Time-out waiting for release guard
- 466 — Time-out waiting for CLF
- 494 — ADDR complete T/O
- 1600 — ITUP trunk timed out while waiting for a release guard MSG.
- 1601 — ITUP trunk timed out waiting for a clear forward message

TCE — Test Call Error

- 115 — Unexpected stop and MF transmitter failure; treat as MF transmitter error only
- 116 — MF transmitter failure report, direct from maintenance
- 146 — ATME incoming test — Network connection failure
- 147 — ATME incoming test — Failure to assign a responder

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**TCE — Test Call Error (Continued)**

- 148 — ATME incoming test — Failure to go on BETL timing
- 229 — MF transmitter error report on idle transmitter
- 230 — Test circuit scan point report in error

UCA — Unauthorized CAMA

- 16 — CAMA unauthorized for operator number identification; reported to VCNTANAL
- 26 — CAMA unauthorized ANI; reported to VCNTANAL

URS — Unreasonable Signal

- 231 — Test circuit involved in failing routine test
- 232 — Digit error report on idle receiver
- 233 — TMAINT first routine operational test failure on E&M trunk reported by trunk operational test program
- 241 — Expanded MF transmitter queue abandon
- 465 — CFL received after answer
- 864 — Not final handled — ISUP OGT handler received out-of-order or irregular message; will retry
- 878 — ISUP OGT handler received unreasonable message during setup
- 1540 — ITUP OGT handler received an out of order or irregular message — Will retry
- 1541 — ITUP OGT handler received an unreasonable clearing message during setup
- 1857 — OGT received an invalid or out of sequence message — Will rehunt another OGT
- 1858 — OGT received an invalid or out of sequence message — Second try

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

URS — Unreasonable Signal (Continued)

- 1948 — ISUP OGT handler received an out of order or irregular message after sending CRM will retry.
- 1949 — GRS was received by ISUP OGT handler while in CRM setup for retry.
- 1950 — GRS received by ISUP OGT handler while waiting for two-stage digit acceptance.
- 1954 — An RSC was received JBY ISUP OGT while waiting for two digit reception.
- 1970 — ISUP OGT handler received an out of order or irregular message after sending CRM on a retry.

UXS — Unexpected Stop

- 118 — DP unexpected stop or continuity failure
 - 119 — MF unexpected stop
 - 965 — First trial unexpected stop (off-hook) from DTMF OGT while outpulsing digits
 - 966 — Final trial unexpected stop (off-hook) from DTMF OGT while outpulsing digits
 - 1118 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1119 — Unexpected stop on second EA outgoing call attempt direct to INC
 - 1120 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1121 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1122 — Unexpected stop on first EA outgoing call attempt to INC via AT
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**UXS — Unexpected Stop (Continued)**

- 1123 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1124 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1125 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1126 — Unexpected stop on first equal access outgoing call attempt to an interexchange carrier via access tandem
- 1127 — Unexpected stop on second equal access outgoing call attempt to an interexchange carrier via access tandem
- 1128 — Unexpected stop on first equal access outgoing call attempt to an interexchange carrier via access tandem
- 1129 — Unexpected stop on second equal access outgoing call attempt to an interexchange carrier via access tandem
- 1171 — Unexpected stop on first EA outgoing call attempt direct to INC
- 1172 — Unexpected stop on second EA outgoing call attempt direct to INC
- 1173 — Unexpected stop on first EA outgoing call attempt direct to INC
- 1174 — Unexpected stop on second EA outgoing call attempt direct to INC
- 1175 — Unexpected stop on first EA outgoing call attempt direct to INC
- 1176 — Unexpected stop on second EA outgoing call attempt direct to INC
- 1177 — Unexpected stop on first EA outgoing call attempt direct to INC

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

UXS — Unexpected Stop (Continued)

- 1178 — Unexpected stop on second EA outgoing call attempt direct to INC
 - 1179 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1180 — Unexpected stop on second EA outgoing call attempt direct to INC
 - 1181 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1182 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1183 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1184 — Unexpected stop on second EA outgoing call attempt direct to INC
 - 1185 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1186 — Unexpected stop on second EA outgoing call attempt direct to INC
 - 1187 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1188 — Unexpected stop on second EA outgoing call attempt direct to INC
 - 1189 — Unexpected stop on first EA outgoing call attempt direct to INC
 - 1190 — Unexpected stop on second EA outgoing call attempt direct to INC
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**UXS — Unexpected Stop (Continued)**

- 1191 — Unexpected stop on first EA outgoing call attempt direct to INC
- 1192 — Unexpected stop on second EA outgoing call attempt direct to INC
- 1193 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1194 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1195 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1196 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1197 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1198 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1199 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1200 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1201 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1202 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1203 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1204 — Unexpected stop on second EA outgoing call attempt to INC via AT

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**UXS — Unexpected Stop (Continued)**

- 1205 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1206 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1207 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1208 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1209 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1210 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1211 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1212 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1213 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1214 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1215 — Unexpected stop on first EA outgoing call attempt on IC call via AT
- 1216 — Unexpected stop on second EA outgoing call attempt to IC via AT
- 1217 — Unexpected stop on first EA outgoing call attempt to IC via AT
- 1218 — Unexpected stop on second EA outgoing call attempt to IC via AT

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**UXS — Unexpected Stop (Continued)**

- 1219 — Unexpected stop on first EA outgoing call attempt to IC via AT
- 1220 — Unexpected stop on second EA outgoing call attempt to IC via AT
- 1221 — Unexpected stop on first EA outgoing call attempt to IC via AT
- 1222 — Unexpected stop on second EA outgoing call attempt to IC via AT
- 1223 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1224 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1225 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1226 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1227 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1228 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1229 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1230 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1231 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1232 — Unexpected stop on second EA outgoing call attempt to INC via AT

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**UXS — Unexpected Stop (Continued)**

- 1233 — Unexpected stop on first EA outgoing call attempt to INC via AT
- 1234 — Unexpected stop on second EA outgoing call attempt to INC via AT
- 1235 — Unexpected stop on first EA outgoing call attempt to IC direct
- 1236 — Unexpected stop on second EA outgoing call attempt to IC direct
- 1237 — Unexpected stop on first EA outgoing call attempt to IC direct
- 1238 — Unexpected stop on second EA outgoing call attempt to IC direct
- 1239 — Unexpected stop on first EA outgoing call attempt to IC direct
- 1240 — Unexpected stop on second EA outgoing call attempt to IC direct
- 1241 — Unexpected stop on first EA outgoing call attempt to IC direct
- 1242 — Unexpected stop on second EA outgoing call attempt to IC direct
- 1243 — Unexpected stop on first EA outgoing call attempt to IC direct
- 1244 — Unexpected stop on second EA outgoing call attempt to IC direct
- 1245 — Unexpected stop on first EA outgoing call attempt to IC direct
- 1246 — Unexpected stop on second EA outgoing call attempt to IC direct

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**UXS — Unexpected Stop (Continued)**

- 1247 — Unexpected stop on first EA outgoing call attempt to IC direct
- 1248 — Unexpected stop on second EA outgoing call attempt to IC direct
- 1249 — Unexpected stop on first EA outgoing call attempt to IC direct
- 1250 — Unexpected stop on second EA outgoing call attempt to IC direct

VAC — Vacant Code

- 21 — CAMA invalid called area code or office code
- 42 — Digit translations blocked call due to LATA-state screening (ISDN services)
- 43 — Digit translations failed during LATA state-screening (not enough digits to get outgoing LATA-state index)
- 44 — Domestic digit translations found too many manually assigned subsequent digit index call-type words for this code-grouping report to VCNTANAL
- 45 — Domestic digit translations found manually assigned subsequent digit index which is out of range (index size exceeds size of code-grouping block) report to VCNTANAL
- 48 — Digit translations blocked call due to route selection index screening (RSI routing required but not found)
- 49 — Domestic digit translations found invalid type of call-type word (SVOGT indicates where in DOM translations); reported to VCNTANAL
- 62 — Vacant code digit translation; reported to VCNTANAL

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

VAC — Vacant Code (Continued)

- 66 — Domestic digit translations detected invalid subsequent digit index sequence (automatic SDX (XLATE more digits) found after manual SDX); reported to VCNTANAL
 - 84 — International digit translations found invalid type of call-type word (SVOGT indicates where (In INTL translations) it was found); reported to VCNTANAL
 - 85 — International digit translations found too many manually assigned subsequent digit index call-type words for this code grouping; reported to VCNTANAL
 - 86 — International digit translations found manually assigned subsequent digit index which is out of range (index size exceeds size of code-grouping block); reported to VCNTANAL
 - 87 — International digit translations blocked call due to route selection index screening (RSI routing required but not found)
 - 88 — International digit translations detected invalid subsequent digit index sequence (automatic SDX (XLATE more digits) found after manual SDX); reported to VCNTANAL
 - 134 — BBC incoming slave setup — Found illegal data associated with master trunk
 - 150 — Handling equal access incoming call, received at least 3-digit ANI and 7-digit address, calling party NPA not in NPA table
 - 164 — Seven-digit, domestic, equal access (switched access) MF incoming SDN call, NPA from ANI not recognized as home or served NPA
 - 225 — TMAINT operational test; vacant code digits
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**VAC — Vacant Code (Continued)**

- 225 — TMAINT operational test; vacant code digits
- 260 — Illegal call type for PAS cut-thru service reported to VCNTANAL
- 328 — Routine error reported after trunk hunt and routing data indicates delete more digits than received. Call was CRB routed.
- 329 — Routine error reported after trunk hunt and routing data indicates delete more digits than received. Call was RTNR, DNHR, or RDB routed.
- 517 — Invalid call type for Q.931 ICT
- 521 — Call to INC traversed satellite; REPODISP killed call
- 553 — A disconnect message was received in the setup state on a Q.931 outgoing trunk with an indicated cause of user busy
- 561 — Disconnect received in setup state with cause which indicates vacant code
- 639 — A Q.931 DISC message was received while waiting for answer — Cause indicates vacant code
- 757 — Release complete received in setup state with cause that indicates vacant code
- 784 — Illegal call type for redirected number
- 800 — Translation failure for CPA terminating routing number
- 820 — PBX illegal call type received on DP or MF ICT; reported to VCNTANAL
- 821 — Illegal call type received on DP or MF ICT; reported to VCNTANAL

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**VAC — Vacant Code (Continued)**

- 822 — Illegal call type received on CAMA ICT; reported to VCNTANAL
- 823 — Illegal call type for number returned from DSD or SDN database NCP; reported to VCNTANAL
- 824 — Illegal call type for CCIS ICT; reported to VCNTANAL
- 825 — Illegal call type for INTL ICT at ISC
- 826 — Illegal call type for direct connect ICT when retranslating digits in POTS domain; reported to VCNTANAL
- 827 — Illegal call type for INWATS call; reported to VCNTANAL
- 828 — Illegal call type for second stage digits on two-stage call; reported to VCNTANAL
- 829 — Translations returned IRA subtype of D3RDOM
- 845 — CCIS or ISUP OGT in handling a 0/1X CHI found conflicting prefix digits in the RDB.
- 846 — CCIS or ISUP OGT in handling a 0/1X CHI found problem in trying to use INTL out-routing category
- 892 — Direct connect or switched access OUTWATS customer attempted call to non-purchased NPA, reported to VCNTANAL
- 894 — OUTWATS customer attempted non-subscribed intra-state call; reported to VCNTANAL
- 896 — EAS ANI failure on EAS OUTWATS call
- 898 — Invalid call type for CCS7 ICT
- 933 — Invalid call type for DTMF ICT; reported to VCNTANAL
- 1025 — An invalid call type was produced by digit translations for an interim safer/ADCR alternate number

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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**VAC — Vacant Code (Continued)**

- 1027 — The 4ESS Switch acting as the RTNR OAS failed to find a TSG list for DSN in the call type word
- 1029 — When the 4ESS Switch was doing RTNR routing it found invalid/inconsistent ODA routing data, OGT state vector indicates fail point — See pident TRANRTNR
- 1030 — The 4ESS Switch acting as RTNR VAS failed to find TSG list for NSN
- 1031 — Invalid call type detected for routing an RTNR call via safer control
- 1041 — Error reported by OGT on a cut-through call at an access tandem. A non-ISUP OGT was selected
- 1100 — Illegal call type or data on POTS retranslation of SSP call returned by SCP; reported to VCNTANAL
- 1103 — Illegal call type on NSR translation of SSP call returned by SCP database; reported to VCNTANAL
- 1161 — Equal access MF SSP incoming call, invalid call type on third (address) sequence; reported to VCNTANAL
- 1162 — Retranslate digits in NSR domain on SSP call type without SCP data base query; reported to VCNTANAL
- 1302 — Load CCC digits subroutine encountered invalid HT4CCONV table entry reported to VCNTANAL
- 1390 — (BELLCORE service switching point (SSP) translations found INWATS call-type word but this 4ESS Switch is not an INWATS OSO; reported to VCNTANAL.
- 1391 — BELLCORE service switching point (SSP) translations found invalid data in SSP NDB (number services datablock); reported to VCNTANAL.

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

VAC — Vacant Code (Continued)

- 1393 — Outgoing trunk hunt for SSP (BELLCORE service switch point) call, loaded CR with RDB from a TTSI block — Indicates invalid attempt to route using DNHR; reported to VCNTANAL
 - 1500 — Illegal call type for CCS7 transit call
 - 1504 — Pseudo country code received on a CCS7 transit trunk
 - 1506 — Bad data was input to the digit reception routine for a TUP call
 - 1507 — Illegal call type for a TUP inbound call
 - 1511 — Invalid inbound test call on a TUP trunk
 - 1565 — ITUP OGT received a UNN message during call setup
 - 1570 — ITUP OGT received a MPR message during call setup
 - 1686 — Traditional two-stage call at an access tandem detected unassigned country code or psuedo country code.
 - 1703 — ISUP direct connect (PBX) phase zero illegal call
 - 1705 — Seven digit — Domestic — Switched access (EA) ISUP incoming SDN call did not receive at least NPA ANI.
 - 1710 — An illegal service switching point (SSP) subtype for equal access (EA) SSP call on ISDN user part (ISUP) incoming trunk (ICT).
 - 1717 — EAMF or traditional international two-stage, where OGT is ISUP, and the second state that was collected failed one of several cross checks.
 - 1718 — Handling an ISUP EA incoming call — A three-digit ANI and a seven-digit address were received but the NPA of the calling party was not in the NPA table.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**VAC — Vacant Code (Continued)**

- 1719 — A seven-digit domestic switched access (EA) incoming SDN call that has an NPA from ANI which is not recognized as a home or a served NPA.
- 1720 — ISUP network interconnect found invalid number services data block (NDB) information while translating carrier-ID and TNS INFO in the ATNS(*) domain.
- 1721 — The ISUP network interconnect found an invalid type of calltype word while translating carrier-ID and TNS INFO in the ATNS domain.
- 1722 — The ISUP interconnect found an invalid subtype in a SSP call type while translating carrier-ID and TNS INFO in the ATNS domain.
- 1723 — The ISUP network interconnect has found a vacant code call-type word while translating carrier-ID and TNS information in the ATNS domain.
- 1732 — Q.931 LEC switched digital service — Specified CID, called number type was unassigned or invalid.
- 1733 — Q.931 LEC switched digital service — Presubscribed CID, called number type was unassigned or invalid.
- 1758 — Q.931 LEC switched digital service — Translated the called number type no route to destination (non-RDB call type).
- 1759 — Q.931 LEC switched digital service — Called number type translation failure (unable to obtain the CDNT from the vacant code call type word when translating the called number digits in the DAVAT domain).
- 1815 — Bad data was input to the digit reception routine for a NUPCALL
- 1816 — Illegal call type for an inbound call on INUP trunk

Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)

VAC — Vacant Code (Continued)

- 1820 — Invalid inbound test call on an INUP trunk
 - 1859 — OGT received a REL message during call setup with the cause indicating unallocated number
 - 1891 — INUPOGT detected an unsupported 1536 KBPS broadband call
 - 1902 — The call was received on an Local Service Provider (LSP)-LOCAL, Intertoll (ITOLL) or Operator Services Position System (OSPS) Integrated Services Digital Network User Port (ISUP) incoming trunk, the Forward Call Indicators (FCI) M-BIT received was set, digits translations of the received called number revealed a vacant code and the number was not in the Local Exchange Routing Guide (LERG) table.
 - 1942 — The DIRESUBS in retranslating for the TNR call, failed to obtain routing
 - 2023 — AIN TCAP — While attempting to route an AIN call using NSR an invalid call type was detected
 - 2031 — AIN — AIN call attempted at switch which has not purchased the AIN feature
 - 2165 — Invalid call type detected for location routing number. This is a Call Irregularity report.
 - 2169 — The Network Switch Number (NSN) received in the NSN Generic Operation Parameter (GOP) from an OSPS was out of range.
 - 2189 — The call was received on an LSP-Local MF or ISUP incoming trunk, and for the ISUP, the FCI M-bit received was zero. Digits translations of the received called number revealed a vacant code and the number was not in the Local Exchange Routing Guide table.
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Table 3-B. Alphanumeric Listing Of Domestic Final Handling Codes By Trap Name (Ineffective Attempt Type) (Contd)**VAC — Vacant Code (Continued)**

- 2192 — Performed an LNP query for Digital Link feature when finding the routing number was the Local Exchange Routing Guide Assigned Number. The reply from the database contained a destination number for which the routing translations failed to provide usable routing.
- 2197 — Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and encountered invalid DSN routing.
- 2198 — Handling a reply from Network Routing and Numbering Database (NRNDB) for a final route and Foreign Administration ID (FAI), received from database does not match data in MCT table.

VNC — Via Node Congestion Crankback

- 1019 — All engineered direct routes busy or failed trunk reservation test

WAT — Waiting answer time-out

- 760 — Q.931 OGT timed-out while waiting for answer on data call.
- 792 — ANICPEC timed-out call waiting for MRD ANS
- 797 — While call in wait for answer state and still busy to CR, the wait for answer timer expired

XST — Expected Stop Time-Out

- 114 — First or second stop-go time-out, TMAINT entry

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Incoming Trunk Treatment

Engineering and Maintenance (E&M)

AR = Audible Ring

BT = 60-IPM Busy Tone

EA = Emergency Announcement

HW = Trunk to be Put High and Wet

IDLE = Trunk to be Idled with Guard Timing

IDNG = Idle, No Guard Timing

MCA = Misrouted CAMA Announcement

MW = Milliwatt Tone

NCA = All Circuits Busy

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Engineering and Maintenance [(E&M) Contd]

OOB = INWATS Out-of-Band Announcement

ROA = Call Did Not Go Through

SP = Spare Announcement Channel

T = 120-IPM TONE

TPT = Test Progress Tone

VCA = Unable to Complete

WNK = Dial-Pulse Immediate Start Wink Off

Common Channel Interoffice Signaling (CCIS)

ADI = Address Incomplete Message On CCIS ICT

BLO = Blocking Message on CCIS ICT

BT = Force Connection to Busy Tone for Certain
CCPAS (DIAL-IT) and INWATS Database Failures

CBK = Crankback (Valid at DNHR VTS or TTS Only)
Message on CCIS ICT

CFL = Call Failure Message on CCIS ICT

CLF = Clear Forward Message on CCIS ICT

COF = Confusion Message on CCIS ICT

DSC = DNHR Selective Dynamic Overload Control
(Valid at DNHR VTS or TTS Only) Message
on CCIS ICT

DSR = Dynamic Selective Trunk Reservation
(Valid at DNHR VTS or TTS Only) Message
on CCIS ICT

EMT = E&M Treatment

HW = High and Wet

HWMM = High and Wet Memory Mutilation

HWNIA = High and Wet with No Immediate Action
(No Reset for About 1 Minute)

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Common Channel Interoffice Signaling [CCIS (Contd)]

IDLE = Incoming Trunk Set to Idle

NCA = Force Connection to No Circuit
Announcement [For MAS (CCPAS)
OUTAGE Scenarios]

NSC = National Switching Congestion Message
on CCIS ICT

NTC = National Trunk Congestion Message on
CCIS ICT

OOB = INWATS Out-of-Band Announcement

PDT = Positive Disconnect Message on CCIS ICT

RLG = Release Guard Message on CCIS ICT

SSB = Send Subscriber Set Busy on CCIS ICT

T = 120-IPM Tone

VNN = Vacant National Number Message on CCIS ICT

**Integrated Services Digital Network User Part
(ISUP)**

EMT = Use E&M ICT Type Treatment

IDM = Idle Trunk in Memory

HWIR = High and Wet, Send Immediate Reset

HWNIR = High and Wet, No Immediate Reset

RLS = Send Release Sequence

RLC = Send Release Complete

RSC = Send Reset Circuit

BLO = Send Blocking

SEC = Send UBM with Cause of Switching
Equipment Congestion

CGC = Send UBM with Cause of Circuit Group Congestion

ADI = Send UBM with Cause of Address Incomplete

CFL = Send UBM with Cause of Call Failure

SSB = Send UBM with Cause of Subscriber Busy

VNN = Send UBM with Cause of Unallocated Number

CKB = Send Crankback

DSC = Send Crankback with DSC Indicator Set

DSR = Send Crankback with DSR Indicator Set

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Integrated Services Digital Network User Part
[ISUP (Contd)]

FCBT = Force Connection to Busy Tone

FCNCA = Force Connection to No Circuit Announcement

UCA = Unknown Carrier Code. Send REL W/Cause of No
Route to Specified Transit Network

UCK = Unknown/Invalid Circuit Code

UNA = Unknown Nature of Address. Send REL W/Cause
of Invalid Parameter Contents.

UBC = Unsupported Bearer Capability. Send
REL W/Cause of BC not Implemented

Q.931

EMT = Use E&M ICT Type Treatment

IDM = Idle Trunk in Memory

HWIR = High and Wet, Send Immediate Restart

HWNIR = High and Wet, No Immediate Restart

DISCUNKN = Send Disconnect Message, Cause Unknown

DISCUB = Send Disconnect Message with Cause of User
Busy

REST = Send Restart Message on the ICT

REL = Send Release Message without a Cause IE

SERV = Send Service Message with Out-of-Service State

RELCOM = Send Release Complete Message, No Cause

RCUNKN = Send REL COM with Cause of Unknown

RCBC = Send REL COM with Cause of Bearer
Capability Not Implemented

RCIDV = Send REL COM with Cause of Invalid Digit Value

RCMIEM = Send REL COM with Cause of Mandatory IE
Missing

RCIIEC = Send REL COM with Cause of Invalid IE Contents

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RCCHDE = Send REL COM with Cause of Identified
Channel Does Not Exist

RCCHIDUSE = Send REL COM with Cause of Channel in Use

RCMNCCALLST = Send REL COM with Cause of Message
Not Compatible with Call State

RCIDEST = Send REL COM with Cause of Invalid
Destination Address

RCFACNSUB = Send REL COM with Cause of Requested
Facility not Subscribed

RCCALLBAR = Send REL COM with Cause of Incoming
Calls Barred

RCUNKNALWYSIDLE = Send Release Complete Message with Cause
of Unknown; When Can't Send Message Idle
the Trunk; Don't Put High and Wet

RC_SERV_UNAVAIL = Send REL COM MSG with Cause of Service
or Option Not Available, Unspecified

RC_INVIECON = Send a Release Complete with Cause
of Invalid Information Element Contents

PASS_CAUSE = Pass Cause and Location From
C74PASS_CAUSE
in a Progress or Disconnect Message and
Play Announcement

Outgoing Trunk Treatment

Engineering and Maintenance (E&M)

UNA = Unassigned Value

HW = Place Outgoing Trunk in High-and-Wet Process

IDLE = Idle Outgoing Trunk with Guard Timing

IDNG = Idle Outgoing Trunk without Guard Timing

Common Channel Interoffice Signaling (CCIS)

CLF = Clear Forward Sent on Outgoing Trunk

HW = Place Outgoing Trunk in High-and-Wet Process

MEM = Idle Outgoing Trunk in Memory

Integrated Services Digital Network User Part (ISUP)

RLS = Send Release Sequence

IDM = Idle Trunk in Memory

HWIR = High and Wet; Send Immediate Reset

RLC = Send Release Complete

RSC = Send Reset Circuit

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Q.931

IDM = Idle Trunk in Memory

HW = High and Wet (Send Immediate Restart)

DISC = Send Disconnect Message

REL = Send Release Message

REST = Send Restart Message

RELCOM = Send Release Complete

RCUNKNALWYSIDLE = Send REL COM, Cause is Unknown, on Fail
Return of Send MSG Idle Trunk Rather
Than Put High and Wet

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Incoming State Vectors

The following is Table 3-C.

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Table 3-C. Incoming State Vectors

Name	Value	Comment
4CRISVIDLE	0	Idle — No ICT
4CRICT_AUD1	1	Audit state — Waiting to be idled
4CRSVCT_RFL	2	DIF SVCT test — Receive failure
4CRMFO	5	MF ICT-RCVR connected, sending ST dial or receiving digits — T-bits = ABAN timing
4CRMFTD	6	MF ICT — No RCVR, thru collecting digits T-bits = ABAN Timing
4CRMFRVCVF	7	Network connect failure — ICT-C- RCVR
4CRSVI_INUP	8	ICT is CCS7 international ISUP— INUP
4CRMF_EAS_CALL	9	MF ICT handling equal access signaling
4CRSVI_Q931	10	ICT is Q.931 (PBX user access protocol)
4CRSVI_ISUP	11	ICT is ISUP (ISDN user part)
4CRWAIT_IAM_COT	12	ISUP ICT waiting for IAM and COT; CRM message was received
4CRWAIT_IAM	13	ISUP ICT waiting for IAM; CRM message was received
4CRDPO	16	DP ICT — Collecting digits
4CRDPTD	17	DP ICT — Thru collecting digits — T-bits = ABAN timing

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Table 3-C. Incoming State Vectors (Contd)

Name	Value	Comment
4CRSVCT_DTMF	19	DTMF SVCT test — Reports
4CRCMI22	32	CAMA ANI ICT attached to MF RCVR
4CRCMI23	33	CAMA DP ANI — ICT on Q for MF RCVR
4CRCAI51	34	ICT busy to CAMA OP POS talking trunk
4CRCAI52	35	ICT on Q for a CAMA OP POS
4CRCATD	36	CAMA ICT — No RCVR — Finished collecting digits
4CRSVI_IDTMFWK	37	ICT is incoming DTMF wink start
4CRSVI_DTMF	38	ICT is IDTS or IDTMFWK, collecting DTMF digits
4CRIS_ICT	40	International (Trunk state in 2nd TR)
4CRSVI_ROTTL	48	ATMS call with a TMR
4CRTMOPBUFI	49	TMOUTPULSE digit translation in progress
4CRSVI_TAT	50	TAT flash transfer call
4CRSVCTIV_D	52	Invalid MF digit during Service Circuit Test
4CRSVI_WAIT_ACP	53	Waiting for acceptable digit count — INUP and TUP
4CRSVI_TAIT_COT_ACP	54	Waiting for COT and acceptable digit count — Timeout is for COT — INUP and TUP

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Table 3-C. Incoming State Vectors (Contd)

Name	Value	Comment
4CRSVI_WAIT_ST	55	Waiting for ST address digit
4CRSVI_WAIT_COT_ST	56	Waiting for COT and ST digit — Timeout is for COT — INUP and TUP
4CRSVI_WAIT_ST_COT	57	Waiting for COT and ST digit — Timeout is for ST digit — INUP and TUP
4CRSVI_ITUP	58	CCITT No. 7 INTL TUP (ITUP) ICT State vector
4CRCIMTCXVR	62	MTC call with XCVR
4CRCIMTC_NL	63	Maintenance call no loop
4CR_A_IC_	64	SENT=ADC RECV=IAM-COT WAIT=None
4CR__I__CA	65	SENT=None RECV=IAM WAIT=COT-ADC — CCIS, ISUP, and ITUP
4CR__IC__A	66	SENT=None RECV=IAM-COT WAIT=ADC — CCIS, ISUP, and ITUP
4CRCIMTC_LP	67	Test call waiting COT
4CRCIMC_TCC	68	Test call COT received
4CR__I__CANL	69	SENT=None RECV=IAM WAIT=COT+ADC+No Loop
4CR__I__CAX	70	SENT=None RECV=IAM WAIT=COT+ADC+XCVR CON

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Table 3-C. Incoming State Vectors (Contd)

Name	Value	Comment
4CR__I__CR	71	SENT=None RECV=IAM WAIT=RLG
4CR__IC__R	72	SENT=None RECV=IAM+COT WAIT=RLG
4CR__I__CNLR	73	SENT=None, RECV=IAM, WAIT=COT&RLG — No loop
4CR__I__CXR	74	SENT=None, RECV=IAM, WAIT=COT&RLG — XCVR
4CRCCISTC	75	System integrity monitor CCIS trunk in routing complete
4CRCCISTCCR	76	System integrity monitor CCIS trunk routing complete — Continuity received
4CR_FH_CA	77	CCIS wait for COT before applying EA

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Outgoing State Vectors

The following is Table 3-D.

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Table 3-D. Outgoing State Vectors

Name	Value	Comment
4CROSVIDLE	0	Idle — No OGT
4CROGT_AUD1	1	Audit state — Waiting to be idled
4CRNOPWTCOT	2	No outpulsing TRK waiting for COT
4CRSVCT_TMF	3	DIF SVCT test — XMTR reports
4CRSVO_WACK	4	Access tandem — Wait post addressing acknowledgment wink
4CRMFXMTCF	5	Network connect failure — OGT-C-XMTR
4CRSV_SSDRPTD	6	Post address acknowledgment reported, using second start dial event for a MF OGT
4CRMFWS1	7	MF OGT — Waiting for off HK of WS — T-Bits = On,HP
4CRMFWS2	8	MF OGT — Waiting for on HK of WS, 350-MS timing active — T-Bits = Off,HP
4CRMFDD1	9	MF OGT — Waiting for off HK of DD-SD — T-Bits = On HK,HP
4CRMFDD2	10	MF OGT — Waiting for on HK of DD-SD — T-Bits = Off,HP

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Table 3-D. Outgoing State Vectors (Contd)

Name	Value	Comment
4CRMFOP	11	MF OGT — On 140-MS timing, sending digits, or waiting for digits — T-Bits = On,HP
4CRMFOPPL	12	MF OGT — Sending last group of digits — T-Bits = On,HP
4CRMFOPER	13	MF OGT — Unexpected stop received, waiting for SP digit report — T-Bits = Ignore
4CRMFTERM	14	MF OGT — Call terminated due to length of XMITTER queue
4CRMFRSRVF	15	MF OGT — Still busy to CR after reservation failure
4CRICOPB	16	IC NOP trunk buffered to base
4CRSVO_ODTMFWK	17	OGT is DTMF wink start
4CRMFWTCCIS	18	MF outpulsing waiting for CCIS
4CRDPIMT	20	DP immediate trunk on glare timing
4CRDPWS1	21	DP OGT — Waiting for off HK of WS — T-Bits = On,HP
4CRDPWS2	22	DP OGT — Waiting for on HK of WS — T-Bits = Off,HP
4CRDPDD1	23	DP OGT — Waiting for off HK of DD-SD — T-Bits = On,HP
4CRDPDD2	24	DP OGT — Waiting for on HK of DD-SD — T-Bits — Off,HP

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Table 3-D. Outgoing State Vectors (Contd)

Name	Value	Comment
4CRDPOP1	25	DP OGT — Sending digits of waiting for digits — T-Bits = Ignore
4CRDPOPL	26	DP OGT — Sending last digit — T-Bits = Ignore
4CRDPOPG	27	DP OGT — Waiting for go — T-Bits = Off, LP
4CRDPRSRVF	28	DP OGT — Still busy to CR after a reservation failure
4CRDPOPABAN	29	Final handling awaiting DP outpulsing complete report or DP request for next digit
4CRDPWTCCIS	31	DP outpulsing waiting for CCIS
4CRCA051	32	CAMA OP POS talking TRK waiting for seizure acknowledgment
4CRCA052	33	CAMA OP POS talking TRK connected to ICT while order tones are being sent
4CRCA053	34	CAMA OP POS talking TRK connected to ICT after order tones have been sent
4CRSVO_INUP	35	OGT is CCS7 international ISUP—INUP
4CRSVO_ISUP	36	OGT is ISUP (ISDN User Part) IAM sent, waiting for VPA to pass, COT, and ADC

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Table 3-D. Outgoing State Vectors (Contd)

Name	Value	Comment
4CRMT_SOS	38	MAINTASK special OGT setup — Staying OGT busy to CR after out complete report
4CRIS_OGT	40	International (Trunk state in 2nd TR)
4CRSVO_ITUP	42	CCITT No. 7 INTL TUP (ITUP) OGT state vector
4CRSVOGT_EAMFOP	44	OGT state vector for trunk and MF XMTR reports use by equal access MF outpulsing
4CROPTETD	47	OGT connected to tone detector
4CRSVO_ROTTL	48	ATMS call with TMR
4CRTMOPBUFO	49	TMOUTPULSE digit translation in progress
4CRSVO_TAT	50	TAT flash transfer call
4CREFTTDG	51	Digit completion / EFTT
4CRCSSENT_VCRAWAIT	52	CRM sent, wait for VPA and CRA
4CRCSSENT_CRAWAIT	53	CRM sent, wait for CRA (VPA either not needed or done)
4CRCSSENT_VWAIT	54	CRM sent, wait for VPA (CRA already received)

Table 3-D. Outgoing State Vectors (Contd)

Name	Value	Comment
4CRSENT_NOWAIT	55	CRM sent, waiting for TWOSTGDR to deliver digits
4CRWAIT_FOR_ANI	56	Canada 800 cross border, ISUP OGT is waiting for ANI
4CR_I_V_CAE	61	SENT=IAM RECE=VPA WAIT=COT+ADC+EEM
RCR_IC_V_AE	62	SENT=IAM+COT RECE=VPA WAIT=ADC+EXM
4CRSVO_ISUPE	63	SENT=IAM RECE=NONE WAIT=ADC+VPA+COT+EXM
4CR_I_VCA	64	SENT=IAM RECV=NONE WAIT=VPA+COT+ADC — CCIS only
4CR_I_V_CA	65	SENT=IAM RECV=VPA WAIT=COT+ADC — CCIS, ISUP, and ITUP
4CR_IC_V_A	67	SENT=IAM+COT RECV=VPA WAIT=ADC — CCIS, ISUP, and ITUP
4CR_IC_VA_	68	SENT=IAM+COT RECV=VPA+ADC WAIT=NONE — CCIS and ISUP
4CR__IVCA	69	SENT=NONE RECV=NONE WAIT=IAM+VPA+COT+ADC
4CR_I_NV_CA	70	SENT=IAM RECV=NO VPA WAIT=COT+ADC
4CR_IC_NV_A	73	SENT=IAM+COT RECV=NO VPA WAIT=ADC
4CR__CB_A	75	CB 1 RCVD wait ANC
4CR__CBRA_A	76	CB 1 RA 1 RCVD wait ANC

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Table 3-D. Outgoing State Vectors (Contd)

Name	Value	Comment
4CR__CBNV_A	77	CB 1 RCVD no loop wait ANC
4CR__CRNV_A	78	CB 1 RA 1 RCVD no loop wait ANC
4CROGT_HUNT	79	OGT hunt is in progress
4CRSVO_SCSFPHL	80	OGT is SCS port
4CRTTASD	81	TTA-R1 start-dial stage
4CRTTAONXQ	82	TTA-R1 on MF XMTR queue
4CRDPLS_SZA	83	DPLS OGT seizure ACK
4CRDPLSDPOP	84	DPLS outpulsing complete
4CRDPLSWCOT	85	DPLS waiting for COT
4CRDPLSDPDR	86	DPLS seizure complete
4CRDPLSOPABAN	87	Digit REQ/Outpulse COMPL
4CRTTARSVF	88	TTA-R1 reserve failure
4CRTTAXCF	89	TTA-R1 XMTR connect failure
4CRVOICE_PATH_WAIT_ADC	90	SENT=IAM+COT RCVD=VPA — Voice path connected WAIT=ADC
4CRVOICE_PATH_WAIT_ADC_EXM	91	SENT=IAM+COT RCVD=VPA — Voice path connected WAIT=ADC+EXM
4CRADC_RCVD_TIME_ANS	92	ADC has been received timing for ANS message
4CR_A_VP_TIME_ANS	93	ADC has been received — Voice path connected — Timing for ANS message

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Trunk Register State Codes

The following is Table 3-E.

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Table 3-E. Trunk Register State Codes

Name	Value	Comment
4TRUNA	0	Unassigned
4TRIDLE	1	Idle trunk
4TRIDLEG	2	Idle trunk on which glare was detected
4TRIETL	3	TR on interject engineered timing list
4TRBETL	4	TR on base level engineered timing list
4TRCDTSI	5	Trunk connected to dedicated TSI-1-Way connect to tone or announcement — May be on BETL also
4TRIBTTR	6	Trunk is in an answered or waiting for answer state
4TR2WOPB	7	2WOP busy to CDO
4TROANS	8	OGT in waiting-for-answer state
4TROTALK	9	OGT in the talking state
4TROCB1	10	OGT in the clear back 1 state — E&M, CCIS, ISUP and ITUP
4TROREA1	11	OGT in the re-answer 1 state — E&M, CCIS, ISUP and ITUP

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Table 3-E. Trunk Register State Codes (Contd)

Name	Value	Comment
4TROCB2	12	OGT in the clear back 2 state — E&M, CCIS, and ISUP
4TROREA2	13	OGT in the re-answer 2 state — E&M, CCIS, and ISUP
4TROCB3	14	OGT in the clear back 3 state — E&M, CCIS, and ISUP
4TROREA3	15	OGT in the re-answer 3 state — E&M, CCIS, and ISUP
4TRTANTOTAN	16	Trunk used in tan-to-tan connection
4TRSFCN	18	Trunk is self-connected
4TRNCBTR	19	Nailed-up connection busy to TR
4TRCIBTTR	20	CAMA ICT in busy-in-a-TR-only state
4TRTNUP	21	Trunk used for TAN nail-up
4TRQ931_CRQ	22	Q.931 (PBX Access Protocol) ICT on queue for CR
4TRISUP_CRQ	23	ISUP (ISDN User Part) ICT on queue for CR
4TRICB1	24	ICT in clearback 1 state — CCIS or ISUP or ITUP

Table 3-E. Trunk Register State Codes (Contd)

Name	Value	Comment
4TRIRA1	25	ICT in re-answer 1 state — CCIS or ISUP or ITUP — for TUP this means answered
4TRICB2	26	ICT in Clearback 2 state — CCIS or ISUP
4TRIRA2	27	ICT in re-answer 2 state — CCIS or ISUP
4TRICB3	28	ICT in clear back 3 state — CCIS or ISUP
4TRIRA3	29	ICT in re-answer 3 state — CCIS or ISUP
4TRMFOQ	31	TR on MF ORIG Queue
4TRIBTCR	32	ICT Busy to CR
4TROBTCR	33	OGT Busy to CR
4TRSIBTCR	34	Service circuit on ICT busy to CR
4TRSOBTCR	35	Service circuit on OGT busy to CR
4TRIDTS	36	ICT dial tone start setup state
4TRDTMFRCICT	37	DTMF receiver busy to ICT
4TRIDTSQRCV	38	Dial tone start ICT on queue for DTMF RCVR
4TRDWKQCRRV	39	IDTMFWK trunk on queue for DTMF CR and RCVR

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Table 3-E. Trunk Register State Codes (Contd)

Name	Value	Comment
4TRCGT	40	Connection for growth testing
4TROCCK	42	Busy or idle occupied position keying trunk connected to MF receiver
4TROCCR	43	MF receiver connected to position keying trunk
4TRSERVOBS	44	Service observing
4TRSERVOBSW	45	Waiting to service observe
4TRTIMVPA	46	Stall CC/VPA retest 5 SEC to allow BLK received—CCIS or ISUP or ITUP
4TRSVCLT	47	Service circuit release timing
4TRDPBLT	48	DP bylink trunk on 50-MS timing
4TRDPDDT	49	DP DD-SD trunk on 150-MS timing
4TRDPDDT4	50	DP DD-SD trunk on 40-MS timing
4TRDPBLADGT	51	DP bylink trunk with a digit RECON on 50-MS timing

Table 3-E. Trunk Register State Codes (Contd)

Name	Value	Comment
4TRQ931_CLR	52	Q.931 (PBX Access Protocol) trunk in clearing state
4TRISUP_CLR	53	ISUP (ISDN User Part) trunk in clearing state
4TRMF_EA_SIG	54	MF ICT EA Signaling — Timing winks before connecting to announcement
4TRWAIT_ATP	55	Waiting for AT&T Trigger Platform (ATP) node to respond to the setup message sent
4TRGDTIM	56	Guard timing
4TRBBC_SLV_ICT	57	Incoming slave trunk of broadband call
4TRBBC_SLV_OGT	58	Outgoing slave trunk of broadband call
4TR_CLS_R	59	Special CLF sent, wait RLG
4TR_B_CL	61	Backward signal sent wait
4TRBBC_MST_ISS	62	Master trunk of broadband call in incoming stable state
4TRBBC_MST_OANS	63	Master outgoing trunk of broadband call waiting for answer
4TRBBC_MST_OTALK	64	Master outgoing trunk of broadband call in talking or connected state
4TRDPOERT	65	DP origination error detected timing name value comment

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Table 3-E. Trunk Register State Codes (Contd)

Name	Value	Comment
4TRINUP_CRQ	66	INUP (CCS7 International ISUP) ICT on queue for a CR
4TRCOWFR	67	CAMA operator position talking trunk waiting for MF receiver to become available
4TRINUP_CLR	68	INUP (CCS7 International ISUP) trunk in the clearing state
4TRCSUST	69	Timing the flashing of calls waiting trunks during CAMA suspension
4TRCOPDA	70	Timing for CAMA OP POS to ACK a DISC
4TR__CL__R	71	CLF sent, wait RLG - CCIS ORISUP
4TR__CL__I	73	CLF received, wait IAM
4TR__CL__C__R	74	CLF sent, COT received, wait RLG
4TR__P__RCL	75	PDT Sent, wait response — CCIS or ISUP
4TR__C__I	76	COT received, wait IAM
4TRITUP_CLR	77	ITUP (International Telephone User Part) Trunk in the clear state
4TRITUP_CRQ	78	ITUP (International Telephone User Part) ICT on queue for CR

Table 3-E. Trunk Register State Codes (Contd)

Name	Value	Comment
4TRDPACT	80	DP active state
4TRDPACTA	81	DP active state and audit
4TRRCVRMON	83	Blue box fraud MFRCVR monitor connection to ICT
4TRITRM	85	Interim busy — CCIS, ISUP, ITUP, or Q.931
4TRCICRQ	86	CCIS trunk on engineered queue for CR
4TRDPCRQ	87	DP trunk on queue for CR
4TRIS_MFOQ5	89	International MF ORIG queue for CR and RCVR
4TRIS_BTLL	90	International busy to link list
4TRIS_IBTTR	91	International ICT busy to TR with voice path
4TRIS_OBTTR	92	International OGT busy to TR with voice path
4TRIS_2NDTR	93	International 2nd TR with fixed TR4CODE
4TRIS_6CRQ	94	CCITT NO6 origination queue for CR
4TRAUDLIST	96	TR is in audit state and on audit list
4TRAUDST	97	TR is in audit state and could not get on audit list

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Table 3-E. Trunk Register State Codes (Contd)

Name	Value	Comment
4TRICTCSFPP	98	ICT connected to FH/CCPAS port
4TRSFPPOGT	99	Service circuit system FH/PAS port for OGT
4TRSICONFIT	100	System integrity confused incoming trunk
4TRSICONFOT	101	System integrity confused outgoing trunk
4TRIHWT	111	International high and wet timing
4TRIHWL	112	International high and wet list
4TROOSI	113	Out-of-service ignore
4TRTMMWLIST	114	On trunk MAINT MW List — Connected to MW tone

Table 3-E. Trunk Register State Codes (Contd)

Name	Value	Comment
4TRTMVIFOPC	115	VIF Operational controls being applied to this trunk
4TR105QTPT	116	105 Test line queue with TPT connection
4TRHWT	117	High-and-wet timing
4TRHWL	118	High-and-wet list
4TRTMAINT	119	Trunk maintenance TR
4TRBTTM	121	Busy to trunk maintenance TR
4TRRBS	122	Roll-Back state
4TRRESERVE	123	Reserved for recent change purposes
4TRIBTTMR	124	ICT busy to TMR
4TROBTTMR	125	OGT Busy to TMR
4TRSIBTTMR	126	Service circuit on ICT busy to TMR
4TRSOBTTMR	127	Service circuit on OGT busy to TMR

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Notes

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Exception Codes

The following is Table 3-F "Exception Codes".

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Table 3-F. Exception Codes

Code	Description
0	Unassigned Exception Code
1	Duplicate request for a charging bill call operation
2	Invalid specifier for a charging bill call operation
3	Invalid type of digits for a charging bill call operation
4	Bad digit
5	Duplicate request for a connection control operation
6	Excessive routing digit parameters
7	Invalid digit type received in a charging update bill operation
8	Invalid type of routing digits for a connection control operation
9	Required parameters for a connection control - disconnect operation not received
10	Invalid specifier for a connection control operation
11	Invalid specifier for a miscellaneous operation
12	Duplicate request for asend notification operation
13	Invalid specifier for a send notification operation
14	Required parameter for a procedural refresh request not received
15	Required parameter for a procedural report transfer request not received

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Table 3-F. Exception Codes (Contd)

Code	Description
16	Invalid specifier for a procedural operation
17	Required parameters for an A800 charging bill call operation not received
18	Invalid A800 billing digit -- not TELCO BCD
19	Invalid A800 billing digit count
20	Required parameters for a SDN charging bill call operation not received
21	Invalid parameter type received in update bill operation
22	Invalid SDN billing digit count
23	Invalid number of FAI digits received
24	Invalid routing digits for a connection control connect operation
25	Required parameters to route an A800 call not received
26	Required parameters to route an SDN call not received
27	Invalid number of billing account number digits received
28	Data rate in data rate parameter does not match the data rate in the CR
29	Invalid specifier for a caller interaction operation
30	Required parameters for a temporary connect -- assist not received

Table 3-F. Exception Codes (Contd)

Code	Description
31	Invalid generic routing information parameter for temporary connect -- assist
32	Invalid request to provide a forward disconnect -- clear assist
33	Invalid request for a NCP transfer
34	Invalid request for a check application status operation
35	Required parameter for update bill not received -- destination digits
36	Invalid parameters for a charging bill call operation
37	Invalid parameter for a connection control -- connect
38	Invalid number of caller interaction digits received
39	Invalid parameter for caller interaction -- play announcement
40	Invalid parameter for a caller interaction -- play announcement and collect digits
41	Network path hunt failed during a caller interaction operation
42	Time expired during a caller interaction operation
43	Reset received by NSC during a calling interation from CCISDISP
44	Received blocking or unequipped label during an NSC operation
45	Unable to send command list
46	Caller abandoned or unrecognized transaction ID
47	Unrecognized operation family value in an invoke component

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Table 3-F. Exception Codes (Contd)

Code	Description
48	Received a return result component from the NCP
50	Transaction portion - unrecognized message type detected by DLN
51	Incorrect transaction portion detected by DLN
52	Incorrect transaction portion detected by VALIDATE_DSD_TCAP_MSG
53	Badly structured transaction portion detected by the DLN
54	Unrecognized component type - general detected by DLN
55	Unrecognized component type - general detected by VALIDATE_DSD_TCAP_MSG
56	Badly structured component - general detected by DLN
57	Incorrect component portion - general detected by DLN
58	Incorrect number of components detected by VALIDATE_DSD_TCAP_MSG
59	Invalid identifier of length in an invoke component detected by VALIDATE_DSD_TCAP_MSG
60	Invalid identifier or length in RTN error comp detected by VALIDATE_DSD_TCAP_MSG
61	Unrecognized error code in RTN error comp detected by VALIDATE_DSD_TCAP_MSG

Table 3-F. Exception Codes (Contd)

Code	Description
62	Unrecognized operation in invoke component detected by VALIDATE_DSD_TCAP_MSG
63	TCAP message of larger than 127 words detected by DLN
64	NCAT SDN blocked by NOCS initiated ACG control
65	NCAT SDN blocked by ACG control due SDN NCP overload
66	NCAT DSD blocked by NOCS initiated ACG control
67	NCAT DSD blocked by ACG control due to DSD NCP overload
68	NCAT DSD blocked by ACG control for mass calling
69	NCAT DSD TCAP MSG returned to 1A by DLN
70	NCAT DSD TCAP MSG returned to 1A by CNI
71	Unit data service message received by 1A
72	NCAT DSD received an operation family value that cannot be processed for NCATs
73	NCAT DSD received an overflow number in routing digits parameter
74	NCAT DSD received a parameter in conn. control operation that cannot be processed by NCATs
75	NCAT DSD received a specifier in a conn. control operation that cannot be processed by NCATs

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Table 3-F. Exception Codes (Contd)

Code	Description
76	NCAT DSD received a specifier in a proc. operation that cannot be processed by NCATs
78	NCAT DSD received routing digits with the nature not national
79	Invalid identifier or length in return result comp. detected by VALIDATE_DSD_TCAP_MSG
80	Reply overdue from database
81	SDN NCAT blocked due to DSMF control
82	DSDC NCAT blocked due to DSMF control
83	Unrecognized message type
84	Unrecognized transaction identifier
85	Badly formatted transaction portion
86	Incorrect transaction portion
87	Resource limitation
88	Application protocol violation
89	Unknown user problem
90	Caller abandon
91	Return error received

Table 3-F. Exception Codes (Contd)

Code	Description
92	Reject received
93	Timeout
94	Unexpected component sequence error
95	Unexpected data value - erroneous contents error
96	Unavailable network resource error
97	Missing customer record error
98	Reply overdue error
99	Data unavailable
100	Task refused error
101	Queue full
102	Queue slot not available
103	Data already exists
104	Unauthorized request
105	Capabilities mismatch
106	Improper caller response
107	Unexpected parameter
108	Missing parameter

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Table 3-F. Exception Codes (Contd)

Code	Description
109*	Unrecognized component - general
110*	Incorrect component portion - general
111*	Badly structured component portion - general
112*	Duplicate invoke ID - invoke
113*	Unrecognized operation code - invoke
114*	Unrecognized parameter tag - invoke
115*	Resource limitation - invoke
116*	Initiating release
117*	Unrecognized linked ID
118*	Unexpected linked response
119*	Unexpected linked operation
120*	Unrecognized invoke ID
121*	Unexpected return result
122*	Unrecognized parameter tag
123*	Unrecognized invoke ID
124*	Unexpected return error
125*	Unrecognized error
126*	Unexpected error

* Exception Codes 109-127 indicate a reject component is received or sent to the NCP.

Table 3-F. Exception Codes (Contd)

Code	Description
127*	Unrecognized parameter tag
128	Invalid specifier for provide instructions family
129	Invalid parameter has been received in PIR instruction
130	Required parameters for PIR not received
131	Invalid feature indication in FPIR command
132	Invalid digit type received in PIR command
133	SIC code or call code not received in PIR command
134	Required parameter for FAI digit not received
135	Second query to UGTT NCP failed due to SPC or SSN prohibited or SPC congestion
136	Second query to SDN NCP using UGTT information failed due to SPC or SSN prohibited or SPC congestion
137	Operation received from UGTT database not provide instructions - start
138	Proper parameters not received from UGTT database - not SCCP called party address and customer ID
139	NCAT UGTT query killed due to ACG control
140	Invoke ATP too many redirection feature parameters
141	Invalid parameter was provided in invoke ATP operation

* Exception Codes 109-127 indicate a reject component is received or sent to the NCP.

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Table 3-F. Exception Codes (Contd)

Code	Description
142	Invalid customer ID received from the UGTT DB as the result of a test query
143	Return error from IDB indicates 800 number not in database or miscellaneous exception
144	Return error from IDB indicates vacant line digits
145	Return error from IDB indicates vacant NXX digits
146	Return error from IDB indicates processor overload
147	Return error from IDB indicates nonpurchased NPA
148	Missing parameter required for speech recognition
149	Fail open off -- timeout waiting for NCP response
150	Fail open off -- ACG applied
151	Fail open off -- fail to send out begin query
152	Fail open off -- UGTT ACG applied
153	Fail open off -- TCAP protocol error
154	Fail open off -- DLN applied ACG
155	Fail open off -- ACG installed
156	Fail open off -- reject operation received
157	Fail open off -- return error operation received

Table 3-F. Exception Codes (Contd)

Code	Description
158	Fail open off -- abort component received
159	Fail open off -- NCP transfer
160	Fail open off -- invalid message received
161	Fail open off -- invalid UGTT state
162	Fail open off -- both UGTT ACG controlled
163	Fail open off -- bad UGTT return informations
164	Fail open off -- both UGTT queries failed
165	Fail open off -- second UGTT ACG controlled
166	Original SDN query time out
167	UGTT primary query time out
168	UGTT secondary query time out
169	UGTT SDN primary query time out
170	UGTT SDN secondary query time out
171	Invalid parameter has been received in PID ATP
172	Missing timeout parameter in connection control
173	Missing echo data parameter in connection control
174	Missing trigger parameter in connection control
175	Bad trigger parameter in connection control
176	Timed out waiting for UGT under ASTN conditions
177	Timed out waiting for 2NCP under ASTN conditions

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Table 3-F. Exception Codes (Contd)

Code	Description
178	Send a PABORT to NCP so it can decrement its CIP counter
179	Protocol error detected while processing a message in which no CR is present but the TSN-VERN matches
180	Received a check application message from the NCP, send a return result - call in progress
181	Invalid data received for a service assist/handoff operation with required capabilities for connection control - connect
182	Invalid data received for a service assist/handoff operation with required capabilities for connection control - temporary connect
183	Too many announcements data received for per announcement information in caller interaction play and collect
184	Too many announcements data received for per announcement information in caller interaction play announcement
185	The selected SD was determined to be congested and unreachable in a 1B generated query
186	The selected SD was under manual ACG controls causing a 1B generated query to be returned
187	The selected SD was under automatic ACG controls causing a 1B generated query to be returned
188	Not Used
189	No SD available to route the 1B-generated message to

Table 3-F. Exception Codes (Contd)

Code	Description
190	No SS7 links available to route the 1B-generated message to
191	UIFN call killed by manual ACG control
192	UIFN call killed by database overload ACG control
193	UIFN call killed by FDOC ACG control
194	UIFN call killed by out of band ACG control
195	UIFN call killed by vacant code control ACG control
196	Not used
197	Not used
198	Not used
199	Not used
200	Not Used
201	LNP process error
202	LNP UDS error
203	LNP invalid message

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Table 3-F. Exception Codes (Contd)

Code	Description
204	LNP invalid operator
205	LNP rejection
206	LNP protocol abort
207	LNP UABORT
208	LNP return error non LNP
209	LNP ANP AOQ
210	LNP DNP DOQ
211	LNP ADNP ADQ
212	LNP ANP LRN ADQ
213	LNP ANP LRN NSN ADQ
214	LNP ANP DN ADQ
215	LNP DNP LRN ADQ
216	LNP DNP ANI ADQ
217	LNP DUPL MISC

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Table 3-F. Exception Codes (Contd)

Code	Description
218	LNP DUPL NM
219	Invalid LNP operation
220	Invalid LNP misc operation
221	Invalid LNP NM operation
222	Invalid misc LNP parameter
223	Invalid misc LNP digit type
224	Invalid misc operation
225	Invalid parm received
226	LNP ANI not portable
227	LNP destination number not portable-destination only query
228	ANI and destination number not portable-ANI and destination only query
229	ANI not portable-ANI and destination only query

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Table 3-F. Exception Codes (Contd)

Code	Description
230	Destination number not portable-ANI and destination only query
231	Bad error code received
232	Not used
233	Not used
234	Not used
235	Not used
236	Not Used
237	Not Used
238	Not used
239	Not used
240	Block payphone originated 8YY call
241	Send LNP query failed
242	LNP query timeout

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Table 3-F. Exception Codes (Contd)

Code	Description
243	ACG control DB initiated
244	ACG control OSS initiated
245	Intelligent network register is not available
246	DLN returned SD query for DNRBC query killed reason
247	Missing CSI CIC or LATA parameters
248	Missing billing number
249	Invalid LATA digit count
250	Invalid CIC digit count
251	CSI value out of range
252	Secondary SRI indicates SDI-CSR and either no FAI digits were received or the FAI digit was zero
253	Secondary FAI digits parameter had more than 2 digits

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Notes

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Universal Subscriber Data Structure (USDS) Exception Codes

The following is Table 3-G.

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Table 3-G. USDS Exception Codes

Code	Description
0	Unassigned USDS Exception Code
1	4ESS Switch in overload no USDS query possible
2	Not possible to send USDS query due to stream down
3	Not possible to send USDS query due to CNI buffer overflow
4	NOC initiated control on USDS point code caused query to USDS to not be sent - both point codes attempted
5	Database initiated control on USDS point code caused USDS query to not be sent
6	Query not sent to USDS due to point code or SSN out of service
7	Query not sent to USDS due to fact that both point codes/SSNs not populated in ODA
8	First query was sent to the USDS and a DF1 timeout occurred - other PC attempted but OOS
9	First query was sent to the USDS and a DF1 timeout occurred - other PC attempted but not present in ODA
10	Timed out while waiting for a response from the first USDS - second query will be attempted
11	Timed out while waiting for a response from the second USDS query
12	Timed out waiting for SP response after USDS instructed 4ESS to wait for instructions
13	Caller abandoned while waiting for a response from the first USDS query

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Table 3-G. USDS Exception Codes (Contd)

Code	Description
14	Caller abandoned while waiting for a response from the second USDS query
15	Caller abandoned while waiting for instructions from the SP after being instructed to wait
16	Received a request to disconnect call but the reply code parameter was not present - call allowed to proceed
17	Received a request to disconnect call but the reply code para. did not indicate 2CCP request - call allowed to proceed
18	SWCAP parameter indicated route to ALA but ALA parameter was not present - call proceeds
19	SWCAP parameter not present in invoke switch capabilities oper
20	Unrecognized indicators set in switch capability parameter for an invoke SWCAP operation
21	Invalid parameter received in PI SWCAP operation - call allowed to proceed
22	The message type received was invalid for the USDS operation received
23	Return error message received with error code of unrecognized error code
24	Return error message received with error code of unused code
25	Return error message received with error code of unrecognized component sequence

Table 3-G. USDS Exception Codes (Contd)

Code	Description
26	Return error message received with error code of erroneous contents
27	Return error message received with error code of unavailable resource
28	Return error message received with error code of missing customer record
29	Return error message received with error code of spare
30	Return error message received with error code of data unavailable
31	Return error message received with error code of task refused
32	Return error message received with error code of queue full
33	Return error message received with error code of no queue
34	Return error message received with error code of reply overdue
35	Return error message received with error code of data already exists
36	Return error message received with error code of unauthorized request
37	Return error message received with error code of not queued
38	Return error message received with error code of invalid
39	Return error message received with error code of IDB misc. problems

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Table 3-G. USDS Exception Codes (Contd)

Code	Description
40	Return error message received with error code of IDB vacant line
41	Return error message received with error code of IDB vacant NXX
42	Return error message received with error code of IDB processor overload
43	Return error message received with error code of IDB non purchased NPA
44	Return error message received with error code of capabilities mismatch
45	Return error message received with error code of improper caller response
46	Return error message received with error code of unexpected parameter
47	Return error message received with error code of missing parameter
50	DLN indicates unrecognized package type
51	Incorrect transaction portion detected by DLN
52	Incorrect transaction portion detected by DLN
53	DLN indicates badly structured component portion
54	DLN indicates unrecognized component portion
55	General unrecognized component

Table 3-G. USDS Exception Codes (Contd)

Code	Description
56	General badly structured
57	DLN indicates incorrect component portion
58	Incorrect component portion due to invalid number of components
59	Incorrect component portion - invoke component
60	Incorrect component portion - return error component
61	Unrecognized error value in return error component
62	Unrecognized operation code value in an invoke component
63	Invalid message length
79	Incorrect component portion - return result component
83	P-ABORT cause indicates unrecognized message type
84	P-ABORT cause indicates unrecognized transaction ID
85	P-ABORT cause indicates badly formatted transaction portion
86	P-ABORT cause indicates invalid transaction
87	P-ABORT cause indicates resource limit exceeded
88	U-ABORT cause indicates application protocol violation
89	U-ABORT cause indicates unknown user problem
90	U-ABORT cause indicates caller abandon

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Table 3-G. USDS Exception Codes (Contd)

Code	Description
91	U-ABORT cause indicates return error message received
92	U-ABORT cause indicates reject message received
93	U-ABORT cause indicates timeout
100	Reject message has invalid type
101	Reject component - general - invalid
102	Reject component - general - unrecognized component
103	Reject component - general - incorrect component portion
104	Reject component - general - badly structured component portion
105	Reject component - invoke - invalid
106	Reject component - invoke - duplicate invoke ID
107	Reject component - invoke - unrecognized parameter
108	Reject component - invoke - unrecognized operation
109	Reject component - invoke - resource limitation
110	Reject component - invoke - initiating release
111	Reject component - invoke - unrecognized linked ID
112	Reject component - invoke - unexpected linked response
113	Reject component - invoke - unexpected linked operation

Table 3-G. USDS Exception Codes (Contd)

Code	Description
114	Reject component - return result - invalid
115	Reject component - return result - unrecognized invoke ID
116	Reject component - return result - unexpected return result
117	Reject component - return result - unrecognized parameter
118	Reject component - return error - invalid
119	Reject component - return error - unrecognized invoke ID
120	Reject component - return error - unexpected return error
121	Reject component - return error - unrecognized error
122	Reject component - return error - unexpected error
123	Reject component - return error - unrecognized parameter
124	Received a message for which the CCID in the message did not correlate to an active USDS CALL125
125	Received USDS response or instruction message without CCID parameter
126	Received USDS message for which CCID matched a TSN but TSN was not in busy to CR state
127	Received USDS message for which the CCID did not correlate to a valid TSN
128	Received a USDS Message which did not contain a valid operation

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Table 3-G. USDS Exception Codes (Contd)

Code	Description
129	Received a UNITDATA service message indicating general error
130	Received a UNITDATA service message indicating signaling point code prohibited
131	Received a UNITDATA service message indicating subsystem prohibited
132	Received a UNITDATA service message indicating signaling point code congestion
133	Received a UNITDATA service message indicating subsystem congestion
134	Message returned by CNI - cause value invalid
135	Message returned by CNI - message returned during data retrieval
136	Message returned by CNI - blocked
137	Message returned by CNI - overload congestion
138	Message returned by CNI - unknown reason
139	Message returned by CNI - ambiguous message
140	Message returned by CNI - message not transmitted user part prohibited
141	Message returned by CNI - MTP restricted route
142	Message returned by DLN - unrecognized reason
143	Message returned by DLN - no TSN translations present should not happen for USDS

Table 3-G. USDS Exception Codes (Contd)

Code	Description
144	Message returned by DLN - invalid format from 1B
145	Message returned by DLN - invalid CNI message type
146	Switch in overload while trying to send NRN query - kill call
147	Not possible to send NRN query cause ring down - kill call
148	Caller abandon while waiting NRN query response
149	Caller abandon during the pre route delay time
150	Timed out while waiting for response to the NRN query
151	Missing required LAM parameters
152	Invalid response received from the NRN query
153	Cannot send NRN query cause ring down - kill call
154	Cannot send NRN query cause CNI buffer overflow
155	Return result last - provide value - invalid parameter
156	Invalid ESPID encountered
157	Invalid NRN digit count - not equal to 10
158	Dial 1 service - missing feature options parameter
159	Dial 1 service - missing routing digit parameter
160	Dial 1 service - too many routing digit parameters
161	Dial 1 service - missing parameters
162	Dial 1 service - invalid digit count

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Notes

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Segmentation Directory (SD)

Exception Codes

The following is Table 3-H.

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Table 3-H. SD Exception Codes

Code	Description
1	Timed out while waiting for response to initial SD query
2	Timed out while waiting for response to SD requery
3	Timed out while waiting for A response from the SP
4	Timed out while waiting for A response to an SP query -- requested by SD in PI - query SP
5	SD query guard timer expired while waiting for response to an SD query
6	SP response guard timer expired while waiting for a response from the SP
7	Caller abandoned while waiting for a response to an SD initial query
8	Caller abandoned while waiting for a response to an SD requery
9	Caller abandoned while waiting for a response from the SP
10	Caller abandoned while waiting for COT
11	Caller abandoned while performing pre-annc timing
12	Caller abandoned while performing caller interaction
13	Received AN SD response message which does not correlate to an active call
14	Received AN SP response message which does not correlate to an active call

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Table 3-H. SD Exception Codes (Contd)

Code	Description
15	DLN forwarded an SD congested indication to 1B during SD IAM intercept
16	DLN forwarded a no reachable SD indication to the 1B during SD IAM intercept
17	1B generated SD query returned due to DLN detecting SD congestion
18	1B generated SD query returned due to DLN detecting no reachable SD
19	1B generated SD query returned by DLN due to detected manual RBC controls
20	1B generated SD query returned by DLN due to detected automatic RBC controls
21	1B attempted to generate an SD query for an SMO call but could not since SD querying is turned off
22	1B attempted to generate an SD query for an SMO call but could not since SD querying is overridden by NEMOS
23	1B received an SD proceed response with reason code - reason in trap output
24	Received a message which contained an invalid component type - assumed to be SP message
25	Received a message with an invoke component which had an invalid operational family

Table 3-H. SD Exception Codes (Contd)

Code	Description
26	Received an invoke component which had an invalid OP specifier for provide instructions family
27	Invalid parameter detected in a provide instructions - proceed operation
28	Invalid parameter detected in a provide instructions - wait operation
29	Invalid parameter detected in a provide instructions - query SP operation
30	Received an invoke component which had an invalid OP specified for connection control family
31	Multiple connection control operations received
32	Invalid parameter detected in a connection control - connect operation
33	Invalid digits type in connection control connect
34	Invalid number of digits of routing type in connection control connect
35	Invalid number of digits of CADCR type in connection control connect
36	Invalid parameter detected in a connection control - temporary connect operation
37	Invalid digits type in connection control - temporary connect

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Table 3-H. SD Exception Codes (Contd)

Code	Description
38	Invalid number of digits of routing type in connection control temporary connect
39	Invalid number of digits of CADCR type in connection control temporary connect
40	Received an invoke component which had an invalid OP specifier for charging family
41	Multiple bill call operations received
42	Invalid parameter detected in a charging - bill call operation
43	Invalid digits type in a charging - bill call operation
44	Invalid number of digits of destination type in charging - bill call
45	Invalid number of digits of SAB type in charging - bill call
46	Invalid number of digits of CCF type in charging - bill call
47	Received an invoke component which had an invalid OP specifier for caller interaction family
48	Received an invoke component which had an invalid OP specifier for misc. family
49	No parameters present in a misc. - SD correlate operation
50	Invalid parameter detected in a misc. - SD correlate
51	Received an invoke component which had an invalid OP specifier for procedural family
52	No parameters present in a procedural - refresh operation

Table 3-H. SD Exception Codes (Contd)

Code	Description
53	Invalid parameter detected in a procedural - refresh operation
54	Received an invoke component which had an invalid OP specified for procedural family
55	Invalid parameter detected in a caller interaction - play announcement operation
56	Return error message received with error code of unrecognized error code
57	Return error message received with error code of unused error code
58	Return error message received with error code of unrecognized component sequence
59	Return error message received with error code of erroneous contents
60	Return error message received with error code of unavailable resource
61	Return error message received with error code of missing customer record
62	Return error message received with error code of spare
63	Return error message received with error code of data unavailable
64	Return error message received with error code of task refused

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Table 3-H. SD Exception Codes (Contd)

Code	Description
65	Return error message received with error code of queue full
66	Return error message received with error code of no queue
67	Return error message received with error code of reply overdue
68	Return error message received with error code of data already exists
69	Return error message received with error code of unauthorized request
70	Return error message received with error code of not queued
71	Return error message received with error code of invalid
72	Return error message received with error code of IDB misc. problems
73	Return error message received with error code of IDB vacant line
74	Return error message received with error code of IDB vacant NXX
75	Return error message received with error code of IDB processor overload

Table 3-H. SD Exception Codes (Contd)

Code	Description
76	Return error message received with error code of IDB non-purchased
77	Return error message received with error code of capabilities mismatch
78	Return error message received with error code of improper caller response
79	Return error message received with error code of unexpected parameter
80	Return error message received with error code of missing parameter
82	REJECT message HAS invalid TYPE
83	Reject component - general -- invalid
84	Reject component - general -- unrecognized component
85	Reject component - general -- incorrect component portion
86	Reject component - general -- badly structured component portion
87	Reject component - invoke -- invalid
88	Reject component - invoke -- duplicate invoke ID
89	Reject component - invoke -- unrecognized parameter
90	Reject component - invoke -- unrecognized operation
91	Reject component - invoke -- resource limitation

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Table 3-H. SD Exception Codes (Contd)

Code	Description
92	Reject component - invoke -- initiating release
93	Reject component - invoke -- unrecognized linked ID
94	Reject component - invoke -- unexpected linked response
95	Reject component - invoke -- unexpected linked operation
96	Reject component - return result -- invalid
97	Reject component - return result -- unrecognized invoke ID
98	Reject component - return result -- unexpected return result
99	Reject component - return result -- unrecognized parameter
100	Reject component - return error -- invalid
101	Reject component - return error -- unrecognized invoke ID
102	Reject component - return error -- unexpected return error
103	Reject component - return error -- unrecognized error
104	Reject component - return error -- unexpected error
105	Reject component - return error -- unrecognized parameter
106	UDS message received - reason not mappable
107	UDS message received - reason is SSN congestion
108	UDS message received - reason is SSN prohibited

Table 3-H. SD Exception Codes (Contd)

Code	Description
109	UDS message received - reason is SPC congestion
110	UDS message received - reason is SPC prohibited
111	TCAP message returned by CNI - reason is not mappable
112	TCAP message returned by CNI - reason is message returned during data retrieval
113	TCAP message returned by CNI - reason is MESSG not transmitted - NTWK or LINK failure
114	TCAP message returned by CNI - reason is message encountered overflow or congestion
115	TCAP message returned by CNI - reason is routing data not defined or link set UNEQ
116	TCAP message returned by CNI - reason is ambiguous MESSG - unknown MESSG type
117	TCAP message returned by CNI - reason is MESSG not transmitted - user part prohibited
118	TCAP message returned by CNI - reason is MTP restricted route
119	TCAP message returned by DLN - reason is not mappable
120	TCAP message returned by DLN - reason is DLN could not translate the TSN in this message and is returning it to the 1A
121	TCAP message returned by DLN - reason is DLN found problem reformatting the message and is returning it to the 1A

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Table 3-H. SD Exception Codes (Contd)

Code	Description
122	TCAP message returned by DLN - reason IS DLN received A message with an invalid CNI message type and is returning it to the 1A
123	Received a query SP request in which the first parameter in the parameter set was not a SCCP calling party address parameter
124	Received a query SP request in which the SCCP calling party address parameter was of invalid format
125	Received a query SP request which failed when attempted due to a buffer overflow condition
126	Received A query SP request which failed when attempted due to a ring down condition
127	Received a P-ABORT message with an invalid cause
128	Received a P-ABORT message with cause indicating unrecognized message type
129	Received a P-ABORT message with cause indicating unrecognized transaction ID
130	Received a P-ABORT message with cause indicating badly formatted transaction portion
131	Received a P-ABORT message with cause indicating invalid transaction portion
132	Received a P-ABORT message with cause indicating resource limit

Table 3-H. SD Exception Codes (Contd)

Code	Description
133	Received a U-ABORT message with unrecognized cause
134	Received a U-ABORT message with cause indicating application protocol violation
135	Received a U-ABORT message with cause indicating application unknown user problem
136	Received a U-ABORT message with cause indicating caller abandon
137	Received a U-ABORT message with cause indicating return error received
138	Received a U-ABORT message with cause indicating reject received
139	Received a U-ABORT message with cause indicating timeout
140	Received some but not all of the required parameters for a CADCR service assist/hand-off request
141	Received invalid type of request for hand-off
142	Received invalid CADCR DIGITS parameter in a connection control connect operation
143	Received invalid routing digits parameter in connection control operation
144	Missing parameter condition detected in a connection control connect operation
145	Invalid domain request detected in a connection control connect operation
146	Invalid routing request detected in a connection control connect operation

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Table 3-H. SD Exception Codes (Contd)

Code	Description
147	Missing mandatory parameters condition detected in charging bill call operation
148	Invalid operation specifier in send notification family
149	Invalid request for multiple announcement sets in a single message received from the NCP
150	Invalid caller interaction requested detected
151	Invalid type of digits detected in caller interaction play announcement operation
152	Invalid number of digits detected in request Caller digits parameter in caller interaction play announcement operation
153	Multiple digit collection indicators parameters received in a single caller interaction play-collect operation
154	Invalid parameter detected in caller interaction play-collect operation
155	Did not receive mandatory digit collection information parameter in caller interaction play-collect operation
156	Invalid provide instructions request
157	Invalid operation detected
158	Badly structured component - general detected by DLN
159	Incorrect component portion - general detected by DLN

Table 3-H. SD Exception Codes (Contd)

Code	Description
160	Incorrect number of components detected by VALIDATE_DSD_TCAP_MSG
161	Invalid identifier of length in an invoke component detected by VALIDATE_DSD_TCAP_MSG
162	Invalid identifier or length in RTN error comp detected by VALIDATE_DSD_TCAP_MSG
163	Invalid identifier or length in return result comp. detected by VALIDATE_DSD_TCAP_MSG
164	Unrecognized component type - general detected by DLN
165	Unrecognized component type - general detected by VALIDATE_DSD_TCAP_MSG
166	TCAP message of larger than 127 words detected by DLN
167	Unrecognized operation in invoke component detected by VALIDATE_DSD_TCAP_MSG
168	Unrecognized error code in RTN error comp detected by VALIDATE_DSD_TCAP_MSG
169	Badly structured transaction portion detected by the DLN
170	Incorrect transaction portion indicated by DLN
171	Incorrect transaction portion indicated by DLN
172	DLN indicates unrecognized package type
173	Unrecognized protocol error indication in the DSDC client buffer

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Table 3-H. SD Exception Codes (Contd)

Code	Description
174	Missing parameters in received connection control temporary connect request
175	Received invalid CADCR type in connection control - temporary connect request
176	Detected unroutable digit/domain routing request while attempting to honor a connection control - temporary connect
177	Received digit type of non-DTMF but speech control not present in caller interaction play-collect request
178	Not possible to send SD query due to stream down condition
179	Not possible to send SD query due to CNI buffer overflow condition
180	Not possible to send SD requery due to stream down condition
181	Not possible to send SD requery due to CNI buffer overflow condition
182	Not possible to send SP continue message due to stream down condition
183	Not possible to send SP continue message due to CNI buffer overflow
184	Attempt to map received TCAP caller interaction request to NSCX CCIS CML message failed
185	Timeout occurred on first SD query and requery office parameter set to no - call routed to destination without requery

Table 3-H. SD Exception Codes (Contd)

Code	Description
186	Request to forward disconnect a call for which no assist is active
187	Duplicate send notification announcement played request received in same message
188	Call timeout while waiting for assist to complete
189	Invalid CADCR type of digits received in connection control - temporary connect operation
190	Caller interaction -- cancel operation received in invalid message type
191	Provide instruction -- proceed contained invalid SCCP calling party address format
192	Provide instruction -- wait contained invalid SCCP calling party address format
193	A REN exception message was received from the NSC indicating fatal error
194	A SD query is abandoned while waiting for outcomplete state
195	Network path hunt failed during a caller interaction operation
196	Time expired during a caller interaction operation
197	Reset received by NSC during a calling interation from CCISDISP
198	Received blocking or unequipped label during an NSC operation

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Table 3-H. SD Exception Codes (Contd)

Code	Description
199	Unable to send command list
200	No SS7 links available to route the 1B generated message to
201	PCP route and record determined that it is not a PCP call
202	The switch determined status as SMO, reverted to PMO by SD
203	Invalid parameter detected in provide instructions - revert to PMO operation
204	Received invalid second routing digits parameter in connection control operation
205	Received invalid FAI digits parameter in connection control operation
206	Received an unrecognized parameter in connection control - disconnect operation
207	Invalid number of digits of dialed type in charging - bill call
208	Invalid number of digits of billing account ID type in charging - bill call
209	Invalid parameter detected in provide instructions-invoke switch cap. operation

Table 3-H. SD Exception Codes (Contd)

Code	Description
210	Invalid digits type detected in provide instructions-invoke switch cap. operation
211	Invalid number of digits detected in routing digits parameter in PI - invoke switch capability
212	Invalid operation code family detected in a return result component
213	Invalid operation code detected in return result - OPFAM=parameter
214	Invalid parameter detected in return result with OPCODE parameter-provide value
215	Invalid digit type detected in return result with OPCODE parameter-provide value
216	Invalid number of digits in return result with OPCODE parameter-provide value
217	ESPID not received in return result with OPCODE parameter - provide value
218	NRN not received in return result with OPCODE parameter - provide value

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Table 3-H. SD Exception Codes (Contd)

Code	Description
219	Caller abandon while waiting for NRN response from USDS
220	Timeout while waiting for NRN response
221	Pre-SDQ control detected with treatment which indicates - default handle
222	Call was forced SMO but was not eligible for an SD query
223	Call attempted to use SDN advanced offnet but feature not available at this switch
224	Call attempted to route using an FAI but FAI was invalid
225	Invalid generic digits parameter detected in conn. control-connect operation
226	Pre-SDQ control detected on requery with treatment which indicates-default handle
227	Pre-SDQ control detected on initial query with treatment which indicates-kill call
228	Pre-SDQ control detected on requery with treatment which indicates-kill call

Table 3-H. SD Exception Codes (Contd)

Code	Description
229	A message containing a request for LAM did not contain all LAM required parameters
230	A message containing a request for LAM contained an invalid ESPID
231	A LAM request contained an invalid number of NRN digits
232	A provide instructions invoke switch capability operation did not include switch capabilities parameter
233	Invalid number of authorization code digits received in charging bill call operation
234	A switch capability parameter contained invalid indications set
235	A switch capability parameter indicated invoke ALA but ALA parameter was not present in the operation
236	Connection control - disconnect operation received without a reply code on a call for which USDS SPSI was received
237	Reply code received in connection control disconnect was not USDS deny for call for which USDS SPSI was received

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Table 3-H. SD Exception Codes (Contd)

Code	Description
238	Exception encountered when attempting to send ANI to billing
239	Invalid digit count on billing number received in charging bill call operation
240	Exception encountered when attempting to send billing number to billing
241	Invalid digit count on ANI digits received in a charging bill call operation
242	An operation which is expected to be received alone was received with at least one other operation
243	Two operations which are not expected to interwork were received in the same TCAP message
244	Provide instructions query SP operation was received without any parameters present
245	Invalid billing parameter received for a PCP call
246	SPSI value received in SP response is invalid for current 4ESS release
247	A proceed normal was received and the SDN call was processed without customer record call processing

Table 3-H. SD Exception Codes (Contd)

Code	Description
248	Invalid digit count on caller interaction digits received in a charging bill call operation
249	Invalid digit count on FAI digits received in a CHRG bill call OP
250	Automatic rate based control encountered by DLN
251	Manual rate based control encountered by DLN
260	SMO call is subjected to 10 digit DN RBC for an IAM intercepted call
261	SMO call is subjected to 10 digit DN RBC for 1B generated call
262	SCS was not available while processing SMO GETS call
263	Fail open off -- invalid message received on GETS call
264	Intelligent network register is not available during a caller interaction operation

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Table 3-H. SD Exception Codes (Contd)

Code	Description
265	Missing CIC CSI or LATA parameter
266	Missing billing number for ADL call
267	Invalid LATA digit count
268	Invalid CIC digit count
269	CSI value out of range
270	Dial 1 service - missing feature options parameter
271	Dial 1 service - missing routing digit parameter
272	Dial 1 service - too many routing digit parameters
273	Dial 1 service - missing parameters
274	Dial 1 service - invalid digit count
275	Secondary SRI indicates SDI-CSR but either the FAI digit was not received or it was zero
276	Secondary FAI digits parameter contains more than 2 digits
277	MRII was not received in the request to query SD

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Network Routing and Numbering Database (NRNDB) Exception Codes

The following is Table 3-H.1.

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Table 3-H. 1 NRNDB Exception Codes

Code	Description
260	NRNDB protocol error
261	Received UDS MSG--query returned
262	NRN invalid caller interaction operation
263	NRN invalid network management operation
264	RCVD reject from NRN DB
265	RCVD PABORT from NRN DB
266	RCVD UABORT from NRN DB
267	RCVD return error from NRN DB
268	RCVD DUPL CC MSG from NRN DB
269	RCVD DUPL NM-ACG from NRN DB
270	RCVD invalid invoke component operation from NRN DB
271	RCVD invalid connection control connect operation
273	Missing mandatory parameter in the route constructor parameter
274	RCVD invalid digit type from NRN DB
275	RCVD invalid error code from NRN DB
276	Failed to send MSG due to stream down
277	Failed to send MSG due to buffer overflow condition
279	Missing routing record-no circuits available
280	Call handling-not allowed
281	Call handling-network management controls applied

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Table 3-H. 1 NRNDB Exception Codes (Contd)

Code	Description
290	Detected an unrecognized component in the NRN DB message
291	Detected an invalid continue message
292	Detected an invalid end message
293	Detected a message that was neither a continue nor an end
294	Detected an invalid connection control connect parameter
295	Detected an invalid connection control connect DISC parameter
296	Detected an invalid caller interaction play announcement parameter
297	Detected an invalid network management ACG parameter
298	Detected an invalid network management digits parameter
299	Missing a mandatory FRI parameter
300	Detected an invalid return error request cause it was not a DISC or CONN request
301	Missing mandatory standard announcement parameter and or disconnect operation
302	Received a request to disconnect the call and the call handling parameter did not indicate no route
303	Received a request to disconnect the call and the call handling information did not indicate NM controlled or not allowed
304	Received a request to disconnect the call, no call handling parameter received

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RTNR Exception Codes

The following is Table 3-H.2.

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Table 3-H. 2 RTNR Exception Codes

Code	Description
1	Unrecognized operation code for RTNR TCAP query
2	Unexpected data value for RTNR TCAP query
3	Invalid parameter for RTNR TCAP query

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Segmentation Directory (SD)

Reason Codes

The following is Table 3-I.

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Table 3-I. SD Reason Codes

Code	Description
1	SP QUERY blocked - SP ACG - Application Overload Control
2	SP QUERY blocked - SP ACG - Manual Control
3	SP QUERY blocked - SP Subsystem prohibited
4	SPARE1 for future use
5	SPARE2 for future use
6	SP QUERY blocked - SD Application Processing Problem
7	SP QUERY blocked - SP out of range
8	SP QUERY blocked - SP Skip Control in the SD
9	SP QUERY blocked - SP not provisioned

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Segmentation Directory Transition Types and Query Status

The following is Table 3-J.

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Table 3-J. Segmentation Directory Transition Types and Query Status

Name	Value	Comment
4CRSD_TT_NONE	0	No service transitioned to SD
4CRSD_TT_PCP	1	PCP transitioned to SD
4CRSD_TT_POET	2	POTS, etc. (Special Area Codes, International outbound and POTS)
4CRSD_TT_SDN	3	SDN
4CRSD_TT_SDS	4	Switched Digital Service
4CRSD_TT_USDS	5	Universal Subscriber Data Structures
4CRSD_TT_PCPCELLULAR	6	PCP Equal Access Cellular
4CRSD_TT_QUIETHEAR	7	QH
4CRSD_TT_GETS	8	GETS
4CRSD_TT_CARSOL	9	CARRIER SOLUTIONS
4CRSD_TT_GSDNI	10	GLOBAL SDN INBOUND
4CRSD_TT_SDI_I	11	SWITCHED DIGITAL INTERNATIONAL INBOUND
4CRSD_TT_SDN_DARND	12	SDN DIAL-AROUND
4CRSD_SPQRY_PRIM	0	Send Query to primary DPC
4CRSD_SPQRY_ALT	1	Send Query to alternate DPC
4CRSD_SPQRY_PRIM_ASTN	2	Query primary using Alternate Signaling Transport Network (ASTN)
4CRSD_SPQRY_ALT_ASTN	3	Query alternate DPC using ASTN

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Segmentation Directory Service Applications

The following is Table 3-K.

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Table 3-K. Segmentation Directory Service Applications

Name	Value	Comment
4CRSD_SERV_APPL_NONE	0	No SD services are active
4CRSD_SERV_APPL_PCP	1	SD PCP Service
4CRSD_SERV_APPL_SDN	2	SDN
4CRSD_SERV_APPL_SDS	3	Switched Digital Service
4CRSD_SERV_APPL_NISG	4	Network Implementation System - General (2DSA)
4CRSD_SERV_APPL_CSMSG	5	Consumer Services Business Service Management System (USDS)
4CRSD_SERV_APPL_GETS	6	GETS
4CRSD_SERV_APPL_FCIC_1	7	FEATURED CARRIER INFORMATION SOLUTIONS 1
4CRSD_SERV_APPL_FCIC_2	8	FEATURED CARRIER INFORMATION SOLUTIONS 2
4CRSD_SERV_APPL_FCIC_GEN	9	FEATURED CARRIER INFORMATION SOLUTIONS GENERAL
4CRSD_SERV_APPL_NCIC_TOT	10	NON-FEATURED CARRIER INFORMATION SOLUTIONS TOTAL
4CRSD_SERV_APPL_SPAR1	11	SPARE 1
4CRSD_SERV_APPL_SPAR2	12	SPARE 2
4CRSD_SERV_APPL_SPAR3	13	SPARE 3
4CRSD_SERV_APPL_SPAR4	14	SPARE 4
4CRSD_SERV_APPL_SPAR5	15	SPARE 5
4CRSD_SERV_APPL_SPAR6	16	SPARE 6
4CRSD_SERV_APPL_SPAR7	17	SPARE 7
4CRSD_SERV_APPL_SPAR8	18	SPARE 8
4CRSD_SERV_APPL_SPAR9	19	SPARE 9
4CRSD_SERV_APPL_SPAR10	20	SPARE 10

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Q.931 Message Types

ATL — Alerting
CLP — Call Proceeding
CNA — Connection Acknowledgment
CNN — Connect
DSC — Disconnect
FAC — Facility
FAK — Facility Acknowledge
FAR — Facility Reject
PRG — Progress
REL — Release
RLC — Release Complete

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Q.931 Message Types (Contd)

RSA — Restart Acknowledgment

RST — Restart

STA — Status

STE — Status Inquiry

SUP — Setup

Integrated Services Digital Network User Part Message Types (ISUP)

ADC — Address Complete

ANS — Answer

BLA — Blocking Acknowledgment

BLO — Blocking

CCR — Continuity Check Request

CGB — Circuit Group Blocking

CGBA — Circuit Group Blocking Acknowledgement

CGUA — Circuit Group Unblocking Acknowledgment

CGU — Circuit Group Unblocking

CKB — Crankback

CKQ — Circuit Query

CKR — Circuit Query Response

CMC — Call Modifications Complete

CMJ — Call Modification Rejected

CMR — Call Modification Request

COT — Continuity

CRA — Circuit Reservation Acknowledgement

CRM — Circuit Reservation Message

CSR — Closed User Group Selection & Validation Request

CSS — Closed User Group Selection & Validation Response

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Integrated Services Digital Network User Part (ISUP) Message Types (Contd)

CVR — Circuit Validation Test Response
CVT — Circuit Validation Test Request
DRS — Delayed Release
EPM — Embedded Pass Along Message
EXT — Exit Message
FAA — Facility Accepted
FAD — Facility Deactivated
FAI — Facility Information
FAR — Facility Request
FOT — Forward Transfer
FRJ — Facility Reject
GRA — Reset Circuit Group Acknowledgment
GRS — Reset Circuit Group
IAM — Initial Address Message
INF — Information
INR — Information Request
LPA — Loop-Back Acknowledgment
PAM — Pass Along Message
REL — Release

Integrated Services Digital Network User Part (ISUP) Message Types (Contd)

RES — Resume
RLC — Release Complete
RSC — Reset Circuit
RSR — RSVP Response Message
RSV — RSVP Message
SAM — Subsequent Address Message
SDI — SDN SID/ANI Increment
SSD — Second Start Dial
SUS — Suspend
UBA — Unblocking Acknowledgment
UBL — Unblocking
UBM — Unsuccessful Backward Set-Up INFO — ITUP Only
UCI — Unequipped Circuit Identification Code
UUI — User-to-User Information
VCR — Virtual Connection Request

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Miscellaneous Information

4

Contents

General

4-1

Miscellaneous Information

4

General

1.01 This part contains information related to the service-improvement function but which is not specifically associated with information presented in other parts of this document. The following list contains examples of the topics covered in this part.

- Typical Worst Trunk Subgroup List (Figure 4-1)
- Typical Trap Outputs (Figure 4-2).

1.02 Several other 4ESS switch reports that could prove useful in the service improvement function include the following:

- Machine Load and Service Summary
- Machine Service Report, Part 1
- Machine Performance Report, Part 2
- Network Switching Performance Maintenance Plan (NSPMP) Report.

Examples of these reports and discussions of their uses can be found in the *4ESS Switch Translations Guide 4 (TG4)*, Division 10, Section 4.

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1.03 It is suggested that individual offices consider this part to include the following:

- Local forms
- Study class assignments
- Examples of frequently used input messages
- Other data that might prove useful as reference material.

1.04 Schedules for distribution of various reports, plus the content of reports 0 through 23 may be established by the machine administrator.

Schedules of reports output on various channels should be maintained and reviewed periodically to determine if the data is being used. Task Oriented Practices, describes how to define and schedule reports. Practice 234-102-018, *Machine Administration Center Records*, contains data on scheduling.

M 32 OP:TERAWTSG WORST TRUNK SUBGROUP LIST MSG START
1 TO 31 ATTEMPTS

USE	FAILURE	COUNT	TCA	POS		CIN				TIME
○	84	2	2	0001	RSLL	IL	RZ	52A	57T	06:17
○	17	2	2	0000	RNLK	IL	RL	54C	57T	08:47
○	13	2	1	0000	EGVG	IL	EG	59E	57T	05:17
○	7	2	3	0000	CHCG	IL	SU	78A	57T	02:47

04/25/80 14:32:18
#687

Figure 4-1. Typical Worst Trunk Subgroup List (Sheet 1 of 7)

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M 32 OP:TERAWTSG WORST TSG'S MSG IP
32 TO 63 ATTEMPTS

USE	FAILURE COUNT	TCA	POS		CIN		TIME
○	112	2	4	0001CHCG	IL OK	62A 57T	09:17
○	107	2	1	00010KLW	IL OL	42E 57T	13:02
○	51	2	1	00010KLW	IL OL	42C 57T	13:02
○	26	2	2	0001RSLI	IL RZ	52A 57T	08:32

04/25/80 14:32:25
#714

Figure 4-1. Typical Worst Trunk Subgroup List (Sheet 2 of 7)

M 32 OP:TERAWTSG WORST TSG'S MSG IP
64 TO 127 ATTEMPTS

USE	FAILURE COUNT	TCA	POS		CIN		TIME
○	97	2	1	00010KLW	IL OL	42E 57T	12:17
○	32	2	1	0000NCHC	IL NC	47C 57T	12:32
○	28	2	2	0001RSLI	IL RZ	52A 57T	11:02
○	27	2	2	0001DSPL	IL XL	69C 57T	13:32

04/25/80 14:32:30
#717

Figure 4-1. Typical Worst Trunk Subgroup List (Sheet 3 of 7)

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M 32 OP:TERAWTSG WORST TSG'S MSG IP
125 TO 255 ATTEMPTS

USE	FAILURE COUNT	TCA	POS		CIN	TIME
	36	2	1	0000HLS	IL HD MG0	57T 10:02
	25	2	3	6000CHCG	IL WB CG1	57T 09:17
	24	2	4	6200CHCG	IL OH MG0	57T 09:47
	23	2	3	6400CHCG	IL LW MG4	57T 11:47

04/25/80 14:32:30
#722

Figure 4-1. Typical Worst Trunk Subgroup List (Sheet 4 of 7)

M 32 OP:TERAWTSG WORST TSG'S MSG IP
256 TO 511 ATTEMPTS

USE	FAILURE COUNT	TCA	POS		CIN	TIME
	41	2	3	6000CHCG	IL WB CG1	57T 14:17
	30	2	4	6200CHCG	IL SU CG0	57T 13:17
○	16	2	1	0000EGVG	IL EG 59E	57T 08:17
○	14	2	1	0001EGVG	IL EG 43C	57T 10:02

04/25/80 14:32:42
#727

Figure 4-1. Typical Worst Trunk Subgroup List (Sheet 5 of 7)

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M 32 OP:TERAWTSG WORST TSG'S MSG IP
512 TO 1023 ATTEMPTS

USE	FAILURE	COUNT	TCA	POS		CIN				TIME
○	152		2	3	0000HFES	IL	WL	39C	57T	08:32
○	16		2	1	0000EGVG	IL	EG	59E	57T	10:02
	14		2	3	0000CHCG	IL	FR	CG1	57T	09:32
○	14		2	3	0000CHCG	IL	SU	78A	57T	10:32

04/25/80 14:32:47
#732

Figure 4-1. Typical Worst Trunk Subgroup List (Sheet 6 of 7)

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M 32 OP:TERAWTSG WORST TSG'S MSG IP
1024 TO 2047 ATTEMPTS

USE	FAILURE	COUNT	TCA	POS		CIN				TIME
○	15	2	1	0000HNDL	IL	HI	65A	57T	11:32	
	9	2	4	0000BCHCG	IL	CL	CG1	57T	09:17	
	8	2	4	0000CHCG	IL	FR	CG0	57T	10:17	
	6	2	4	0000CHCG	IL	CL	CG0	57T	10:17	

04/25/80 14:32:59
#755

M 32 OP:TERAWTSG WORST TSG'S MSG COMPL
2045 TO 8191 ATTEMPTS

USE	FAILURE	COUNT	TCA	POS		CIN			TIME

04/25/80 14:32:59
#762

Figure 4-1. Typical Worst Trunk Subgroup List (Sheet 7 of 7)

46 REPT:IAOFC, TRAPN 33, NCA
ICT 7276 TPKA KS JA 02T 04T
DIG: 5318753
FINAL ROUTE: 5000KSCY MO 05 MG004T
FHCODE: 63, IFHCODE: 63, SVICT: 6, SVOGT: 0
14:46:26
09/27/77 14:46:26
#165

46 REPT: IAOFC, TRAPN 33, NCA
ICT 20 RENO NV 08 04T 04T
DIG: 5312235
FINAL ROUTE: 5000KSCY MO 05 MG004T
FHCODE: 63, IFHCODE: 63, SVICT: 6, SVOGT: 0
14:46:47
09/27/77 14:46:47
#176

58 REPT: IAOFC, TRAPN 35, FSA
ICT 3002 EGTN MO XA 227 04T
FHCODE: 235, IFHCODE: 79, SVICT: 0, SVOGT: 0** DATA
LOST**
13:58:58
09/27/77 13:58:58
#855

59 REPT: IAOFC, TRAPN 35, FSA
ICT 3134 KSCY MO 05 75A 04T
FHCODE: 237, IFHCODE: 78, SVICT: 5, SVOGT: 0
13:59:00
09/27/77 13:59:00
#856

Figure 4-2. Typical Trap Outputs (Sheet 1 of 3)

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59 REPT:IAOFC, TRAPN 32, TCE
ICT Ø OGT 19Ø8 SVE* XCVR *** STC4T
FHCODE: 233, IFHCODE: 233, TRCODE: 77, TRSUB: Ø
13:59:44
Ø9/27/77 13:59:44
#857

27 REPT: IAOFC, TRAPN 32, MAR
ICT 1 MIS* IDPO *** STC OGT Ø MIS* IMFO *** STC
DOMI: 1, DIG: 95925814Ø4
FHCODE: 25Ø, IFHCODE: 78, SVICT: 6, SVOGT: 7
14:27:39
Ø1/Ø1/83 14:27:39

Ø1 REPT: IAOFC, TRAPN 32, ADF
ICT 73 SNDG CA Ø2 Ø1T LAB ØGT 7 AEDN HR 7D NHR
DOM
DIG: 6Ø23331234
DNHRICM: Ø, DNHROCM: 1
FHCODE: 171, IFHCODE: 171, SVICT: 6, SVOGT: 64
15:Ø1:Ø4
12/12/83 15:Ø1:Ø8
#8Ø7

Figure 4-2. Typical Trap Outputs (Sheet 2 of 3)

Legend:

46, 58, 59 = Minutes past the hour
NCA, FSA = Call irregularity type (see Figure 4-3)
ICT = Incoming trunk
OGT = Outgoing trunk
DIG: = Digits dialed
FINAL ROUTE: = Last group tried
FHCODE: = Final handling code (Volume 1, Section 2)
IFHOCDE: = Input final handling code (see Figure 4-4)
SVICT: = Call register state vector incoming trunk
SVOGT: = Call register state vector outgoing trunk
TRCODE: = Trunk register code
TRSUB: = Trunk register subcode
DNHRICM: = DNHR incoming class mark
DNHROCM: = DNHR outgoing class mark

(For complete explanation of traps, see 234-103-018, *Call Irregularity Raw Data Trap — TOC — 4ESS Switch*)

Figure 4-2. Typical Trap Outputs (Sheet 3 of 3)

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```

INIT.DGSTAT,DT ,DTU ,DG !
MON:IAOFC,NEW ADD:1A ALL,TIMEON 0000,TIMEOFF 1600,TCA 1!
MON:IATSG,NEW;ADD:CIN ,NUM ,IA ,TIMEON 0000,TIMEOFF 1600!
OP:DGSTAT,DT ,DTU ,DG DETL:NUM 480,STAT SLL!
OP:DGSTAT,DT ,DTU ,DG ;DETL:NUM 480,STAT SLH!
OP:TRKHOLD!
OP:TERAWTSG:ALL!
OP:TERAWTSG:TCA 1!
OP:TERAWTSG:TCA 2!
OP:TRKSTAT,ALL:STAT (TRAF <CODE 2>) !
OP:TRKSTAT,ALL:STAT (TRAF<CODE 10>)!
OP:TRKSTAT,TCA 1:STAT MTC!
OP:TRKSTAT,TCA 2:STAT MTC!
OP:TSGSTAT,DETL:TCA 1!
OP:TSGSTAT DETL:TCA 2!
OP:TSGSTAT,SUM:TCA 1!
OP:TSGSTAT,SUM:TCA 2!
SCHED:TRKTEST,OPR:TIMEON 0000,TIMEOFF 0600!
SET:CONN ,TP :CIN ,MODE 4!
SET:CONN TP :CIN ,MODE 5!
SET:TRKSTAT ACT,CIN :NUM !

```

Figure 4-3. Typical TCA Channel Input Messages (Sheet 1 of 2)

```

SET:TRKSTAT CAD.LKO,CIN :NUM !

```

```

SET:TRKSTAT MTC.DSA,CIN :NUM !
SET:TRKSTAT MTC.LKO,CIN :NUM !
SET:TSGATC.CIN :INH!
STOP:MON IAOFC.TRAPN !
STOP:MON,IATSG,TRAPN !
STOP:TEST TRK,CIN ;OPR:TSG,SKPBY,PALL!
TEST:TRK,CIN ;OPR:TSG,SKPBY,PALL!
TEST:TRK,CIN TIC!
TRC:TRK,CIN ;HLD!
TRC:TRK,CIN ;RLS!
VER:CODEGP:ABC ,DEF ,GHI ,RDB!
VER:TRK;COR,STD:CIN !
VER:TRKNAME,CIN !
VER:TSG ! NG
ALW:IATSG,TRAPN 28! OK

```

Figure 4-3. Typical TCA Channel Input Messages (Sheet 2 of 2)

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INPUT FINAL HANDLING		CLARIFICATION		EXPANDED FINAL HANDLING
CAMA ONI ABANDON BEFORE GETTING A CAMA OPERATOR	30	INFORMATION DIGIT INDICATED NO ANI	246	EXPANDED ANI LOCAL OFFICE FAILURE
		ANI RECEPTION FAILURE	247	EXPANDED ANI NUMBER FAILURE
		ABANDON AFTER 2ND STAGE STAR DIAL SENT	148	EXPANDED 2ND STAGE LOW PRIORITY ABANDON
		MF, ZERO DIGITS COLLECTED	237	EXPANDED MF ABANDON WITH NO DIGITS
		MF, SOME DIGITS COLLECTED	238	EXPANDED MF ABANDON WITH SOME DIGITS PRESENT
MAIN DISP, LOW PRIORITY ABANDON	78	DELAY DIAL, NO START DIAL	242	EXPANDED NO START DIAL ON DELAY DIAL-START DIAL OR WINK START TRUNK
		ABANDON WHILE ON Q FOR MF XMTR	241	EXPANDED MF TRANSMITTER QUEUE ABANDON
		ALL DIGITS COLLECTED, OUTPULSING	250	EXPANDED MISCELLANEOUS ABANDON BEFORE OUTPULSING COMPLETE
		DIAL PULSE, SOME DIGITS COLLECTED	238	EXPANDED NON-MF ABANDON WITH SOME DIGITS PRESENT
		DIAL PULSE, ZERO DIGITS COLLECTED	235	EXPANDED NON-MF ABANDON WITH NO DIGITS
MAIN DISP, DIAL PULSE ABANDON	79	DELAY DIAL, NO START DIAL	242	EXPANDED NO START DIAL ON DELAY DIAL-START DIAL OR WINK START TRUNK
		DELAY DIAL, INTEGRITY CHECK FAILURE	243	EXPANDED INTEGRITY CHECK FAILURE ON DELAY DIAL-START DIAL TRUNK
DELAY DIAL TIME-OUT	104	WINK START, NO START DIAL	244	EXPANDED NO START DIAL ON WINK START TRUNK. NO OFF HOOK RECEIVED
		WINK START, PERMANENT SIGNAL, NOT GLARE	245	EXPANDED NO START DIAL ON 1-WAY OUTGOING TRUNK. OFF HOOK WHEN TIMED OUT
		NO DIGITS COLLECTED	248	EXPANDED DP PERMANENT SIGNAL TIME-OUT, NO CALL REGISTER
DIAL PULSE PERMANENT SIGNAL OR PARTIAL DIAL TIME-OUT	123	SOME DIGITS COLLECTED	249	EXPANDED DIAL PULSE PARTIAL DIAL TIME-OUT, NO CALL REGISTER

Figure 4-4. Input Final Handling Code to Expanded Final Handling Code Map

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Notes

4-12 Issue 22 September 2001

234-010-315

1.05 This part contains information about the application of Final Handling Codes that were either added or updated after Issue 14 of the Domestic Call-Irregularity Maintenance Reference Handbook. Prior to Issue 13 all International Final Handling Codes can be found in the International version of this document.

These Final Handling Codes have been identified as International, Domestic, or Both.

234-010-315

Notes

234-010-315

Final Handling Codes - Domestic - International or Both

Final Handling Codes	Issue Number	International Domestic Both
631	16	D
699	20	D
702	16	D
703	16	D
727	21	D
728	21	D
1355	15	D
1513	18,20	D
1514	18,20	D
1515	18,20	D
1516	18,20	D
1517	18,20	D
1518	18,20	D
1519	18,20	D
1520	18,20	D
1521	18,20	D
1522	18,20	D
1523	18,20	D
1524	18,20	D
1525	18,20	D
1526	18,20	D
1527	18,20	D
1528	18,20	D
1529	18,20	D
1634	16	D

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Final Handling Codes - Domestic - International or Both

Final Handling Codes	Issue Number	International Domestic Both
1797	17	D
1798	17	D
1799	17	D
1800	17	D
1801	17	D
1802	17	D
1803	17	D
1804	17	D
1805	17	D
1806	17	D
1807	17	D
1808	17	D
1809	17	D
1810	17	I
1811	17	D
1812	18	B
1813	18	B
1814	18	D
1902	18,20	D
1903	17	B
1904	17	D
1917	16	D
1918	16	D
1977	15,16	D
1978	15,16	D

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Final Handling Codes - Domestic - International or Both

Final Handling Codes	Issue Number	International Domestic Both
2064	15	D
2077	16	D
2078	16	D
2079	16	D
2080	16	D
2081	16	I
2082	16	I
2083	16	I
2084	16	I
2085	16	I
2086	16	I
2087	16	I
2088	16	I
2089	16	I
2090	16	I
2091	16	I
2092	16	D
2093	16	D
2094	16	D
2095	16	D
2096	16	D
2097	16	D
2098	16	D
2099	15	D

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Final Handling Codes - Domestic - International or Both

Final Handling Codes	Issue Number	International Domestic Both
2113	16,17	I
2134	15	D
2185	16	D
2194	17	D
2195	19	I
2196	19	I
2197	19	I
2198	19	I
2199	19	I
2208	19	I
2209	19	I
2210	19	I
2211	19	I
2212	19	I
2213	19	I
2214	19	I
2215	19	I
2216	19	I
2217	19	I
2218	19	I
2219	19	I
2220	19	I

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User Notes

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Notes

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Notes

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Notes

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Notes

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Notes

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Notes

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Notes

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Notes

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Notes

Abbreviations

A

ABNS

Abandons

ACB

Access Barred

ACG

Automatic Code Gap

ACH

Attempts Per Circuit Hour

ACI

AT&T Communications ISDN

ACISDN

AT&T Communications Integrated Services Digital Network

ACM

Address Complete Message

ACO

Address Complete

ACR

Auxiliary Call Register

ACSI

ANI Delivery Service Index

ADC

Acceptable Digit Count

ADC

Address Complete

Abbreviations

ADCR

Alternate Destination Call Redirection

ADF

Common Channel Interoffice Signaling (CCIS) Outgoing Addressing Failure

ADI

Address Incomplete

AFA

ANI Failure Action

AIF

Automatic Number Identification Failure

AIN

Advanced Intelligent Network

AIT

Automatic Number Identification (ANI) Office Failure

ALA

Adjunct Logical Address

AMA

Automatic Message Accounting

ANF

Automatic Number Identification (ANI) Failure

ANI

Automatic Number Identification

ANID

Automatic Number Identification Delivery Service

ANM

Automatic Network Management

ANS

Answer

Abbreviations

AOF

Automatic Number Identification Office Failure

APP

Application Transport Parameter

ASSET

Advanced Switchable Signaling and Echo Canceling Terminal

AT

Access Tandem

ATNS

Access Tandem Transit Network Selection

ATO

Address Complete Time-Out

ATP

AT&T Trigger Platform

ATP

Access Transport Parameter

B

BBC

Broad Band Call

BBFP

Blue Box Failure Prevention

BC

Bearer Capability

BCD

Binary Coded Decimal

Abbreviations

BFL

Common Channel Interoffice Signaling (CCIS) Backward Failure

BLO

Blocking

BN

Billing Number

BNF

Billing Number Failure

BT

Busy Tone

BV_S

Billing Verify_System

C

CADCR

Centralized Alternate Destination Call Redirection

CAMA

Centralized Automatic Message Accounting

CAS R5

Customer Authorization System Release 5

CBK

Crankback

CCH

Connections Per Circuit Hour

CCIS

Common Channel Interoffice Signaling

Abbreviations

CCITT

International Telegraph and Telephone Consultative Committee

CCK

Continuity Check Test

CCNB

Common Channel Interoffice Signaling (CCIS) Network Blockage

CCP

Customer Call to Public Announcement System

CCPAS

Customer Call to Public Announcement System

CCR

Continuity Check Request

CCS

Common Channel Signaling

CCT

Continuity Check Transceiver

CDO

Community Dial Offices

CFD

Call Failures Detected

CFL

Call Failure

CFL

Common Channel Interoffice Signaling (CCIS) Call Failure

CGC

Circuit Group Congestion

CHI

Call Handling Instruction; Call Handling Index

Abbreviations

CIC	Controller Interface Circuit
CICR	Carrier Identifier CAMA Record
CID	Carrier Identification
CKF	Common Channel Interoffice Signaling (CCIS) Continuity Check Failure
CLF	Clear Forward
CMS	Circuit Maintenance System
CNAC	Common Channel Interoffice Signaling Network Administration Center
CNI	Common Network Interface
CNT	Called Number Trigger
COF	Confusion
COS	Class Of Service
COT	Continuity
CPA	Common Platform Adjunct
CPE	Centralized Automatic Message Accounting (CAMA) Position Error

Abbreviations

CPF	Continuity/Polarity Test Failure
CPG	Call Process Message
CPT	Centralized Automatic Message Accounting (CAMA) Position Trouble
CR	Call Register
CRA	Circuit Reservation Acknowledgement
CRB	Customer Routing Block
CRM	Circuit Reservation Message
CRO	Cancel Reroute Overflow
CRQ	Call Register Queue
CSDU	Conversant Sequence Dialing Unit
CSI	Calling Station Identity
CST	Centralized Automatic Message Accounting (CAMA) Position Seizure Time-out
CT	Call Type
CTI	Call Type Indicator

Abbreviations

CTO

Continuity Time-Out

CTR

Centralized Automatic Message Accounting (CAMA) Operator Trunk
Trouble Report

CTW

Call Type Word

CUG

Closed User Group

CVIS

Conversant Voice Information System

D

D-SDOC

DNHR Selective Dynamic Overload Control

DB

Database

DCIS6

Destination CCIS 6

DCMS

Digital Cross-Connect Multiplexing System

DDD

Direct Distance Dialing

DDSD

Delay Dial

DGTS

Digits

Abbreviations

DIF	Digital Interface
DIRE	Digit Reception
DISC	Disconnect
DISCUNKN	Disconnect Cause Unknown
DISP	Dispenser
DLC	Dynamic Load Control
DLN	Direct Link Node
DN	Destination Number
DNF	Dynamic Node Failure
DNHR	Dynamic Non-Hierarchical Routing
DNRBC	Dialed Number Rate Based Control
DNST	Destination or Dial Number Service Type
DOCTOR	Dynamic Overload Control Time-Out Release
DP	Dial Pulse

Abbreviations

DPCB

Direct Producer Call Back

DPED

Dial Pulse Early Digit

DPIS

Dial Pulse Immediate Start

DPN

Digital Path Not Provided

DSC

DNHR Selective Dynamic Overload Control Cancel

DSD

Direct Services Dialing

DSDC

Direct Services Dialing Capability

DSF

Direct Signaling Failure

DSN

Destination Switch Number

DSR

DNHR Selective Trunk Reservation

DSTR

Dynamic Selective Trunk Reservation

DTMF

Dual Tone Multifrequency

DWF

Dial Pulse Worklist Full

Abbreviations

E

EA

Emergency Announcement

EA

Equal Access

EAD

Equal Access Feature Group

EAEO

Equal Access End Office

EAID

External Announcement Identity

EAMF

Equal Access Multi-Frequency

EAR

Emergency Alternate Routing

EAS

Equal Access Signaling

EBC

Egress Busy Crankback

EBCBK

Egress Busy Crankback

EBF

Far End Busy Failure

EESP

Enhanced -Enhanced Service Provider

EIA

Equipment Ineffective Attempts

Abbreviations

ERO

Equipment Reorder

ESAC

Electronic Systems Assistance Center

ESP

Enhanced Service Provider

F

FAIL

Failure

FAXSF

FAX Store and Forward

FCBT

Force Connection to Busy Tone

FCI

Forward Call Indicator

FCNCA

Force Connection to No Circuit Announcement

FEA

Filter and Error Analyze

FEALN

Far End AT&T Local Network

FEN

Far End Network

FENN

Far End Network Number

Abbreviations

FENPA

Far End Numbering Plan Area

FGC

Feature Group C

FGD

Feature Group D

FHC

Final Handling Code

FHT

Final Handling Treatment

FOT

Forward Transfer

FS

False Start

FSA

False Start Abandon

FSO

Failure Signal

FTF

Final Trial Failure

FTST

Filter and Test

Abbreviations

G

GAP

Generic Address Parameter

GLC

Glare Control

GLR

Glare Release

GOPS

Generic Operation Parameters

GRS

Reset Circuit Group

GSC

Group Signaling Congestion

GSDN

Global Software Defined Network

GTT

Global Title Translations

H

HAW

High-and-Wet

HC

Heading Code

HICAP

High Capacity

Abbreviations

HO

A Type of Circuit (384kb/s)

HRDMP

Hourly Dumping

HTR

Hard To Reach

HWIR

High and Wet, Send Immediate Reset

HWMM

High and Wet Memory Mutilation

HWNIA

High and Wet With No Immediate Reset

HWNIR

High and Wet No Immediate Reset

I

IAD

Incomplete Address

IAID

Internal Announcement Identity

IAM

Initial Address Message

IAOFC

Ineffective Attempt Office

IC

Interexchange Carrier

Abbreviations

ICT

Incoming Trunk

ID

Identification

IDB

800 Service (INWATS) Data Base Failure

IDLE

Incoming Trunk Set to Idle

IDNG

Idle-No Guard

IDS

800 Service (INWATS) Direct Signaling Failure

IDTS

Immediate Dial Tone Start

IE

Information Element

IFF

International Failure in Foreign Country

IKF

Integrity Check Failure

IMA

Ineffective Machine Attempt

INA

Ineffective Network Attempt

INC

International Carrier, International No-Circuit, International Network Congestion

INFO

Information

Abbreviations

INTL

International

INW

800 Service (INWATS) Out-of-Band Screening Failure

INWATS

Inward Wide Area Telephone Service (800 Service)

IPM

Interrupts Per Minute

IRO

International Reorder

IS

Incoming Seizure

ISC

International Switching Center

ISDN

Integrated Services Digital Network

ISUP

Integrated Services Digital Network User Part

ISUP

Integrated Services User Part

ISUP

ISDN User Part

IT

Intertoll

ITC

Incoming Trunk Class

ITOLL

Intertoll

Abbreviations

ITS

International Transport Service

ITST

Immediate Test

ITUP

International Telephone User Part

IUC

International Outgoing Call

IUR

Incoming Unreasonable Signal

IVC

International Vacant Code

IVCA

International Vacant Code Announcement

IWK

800 Service (INWATS) Check

K

KA

Kill With Announcement

KP

Key Pulse

KT

Keying Trunk

KW

Kill With Wink

Abbreviations

L

LAM

Leave a Message

LCC

Local Carrier Connect

LCC

Local Exchange Carrier Connection

LCI

Local Call Intercept

LEC

Local Exchange Carrier

LKO

Lock-Out

LOS

Line Out-of-Service

LNP

Local Number Portability

LRN

Location Routing Number

LSP

Local Service Provider

LSP-LOCAL

Local Service Provider-Local

Abbreviations

M

MA

Machine Attempt

MAB

Miscellaneous Abandon

MAC

Machine Administration Center

MAIN

Main Call Processing

MAS

Mass Announcement System

MAUD

Message Associated User Data

MB

Maintenance Busy

MCA

Misrouted Centralized Automatic Message Accounting (CAMA)

MCC

Master Control Console

MCT

Multiple Carrier Treatment

MEAS

Measurement

MF

Multifrequency

MFEQ

Multifrequency Equipment

Abbreviations

MLSS

Machine Load and Service Summary

MNM

Manual Network Management

MOC

Maintenance Operations Center

MPR

Machine Performance Report

MRA

Mass Recorded Announcement

MRTT

Multiple Routing Treatment Translator

MSC

Miscellaneous Call Irregularity

MSR

Machine Service Report

MTP

Message Transfer Part

MUM

Multiple Unit Message

MUVF

Mixed Use Voice/FAX

Abbreviations

N

NC

No Circuit

NCA

No Circuit Available

NCAN

No Circuit Announcement

NCAT

None Call Associated Temporary Signaling Connection

NCD

Network Call Denial

NCIT

No Circuit Intertoll

NCP

Network Control Point

NCS

Common Channel Interoffice Signaling (CCIS) National Congestion

NCTC

No Circuit Toll Connect

NDB

Number Services Data Block

NM

Network Management

NMC

Network Management Center

NMPR

Network Management Printer

Abbreviations

NNX

Central Office Code

NOCS

Network Operation Center System

NPA

Numbering Plan Area

NRA

Network Remote Access

NRNDB

Network Routing and Numbering Database

NRO

Nonequipment Reorder

NSC

National Switching Congestion

NSCX

Network Services Complex

NSD

No Start Dial

NSF

Network Specific Facilities

NSN

National Switch Number

NSPMP

Network Switching Performance Maintenance Plan

NSR

Number Services Routing

NTC

National Trunk Congestion

Abbreviations

NWC

No Wink From Carrier

O

OAS

Originating AT&T Switch

OCC

Other Carrier Connecting

ODA

Office Data Assembler

OFCI

Optional Forward Call Indicator

OFL

Overflow

OGT

Outgoing Trunk

OLI

Originating Line Identifier

OLI

Originating Line Identity

ONAC

Operations Network Administration Center

ONI

Operator Number Identification

OOA

Out of Area

Abbreviations

OOS

Out-Of-Service

OP

Outpulsing

OQA

Originating Multifrequency Queue Abandon

OSO

Originating Screening Office

OSPS

Operator Service Position System

OTS

Originating Toll Switch

OUT

Outgoing

P

PA

Position Attached

PAS

Public Announcement System

PAW

Post Address Wink

PBX

Private Branch Exchange

PCC

Per Call Control

Abbreviations

PCC	Pseudo Country Code
PCP	Positive Call Processing
PCPCCP	Capability Control Procedure
PDA	Partial Dial Abandon
PDT	Partial Dial Time-out
PER	Pulsing Error
PHF	Path Hunt Failure
PLU	Positive Look-Up
POTS	Plain Old Telephone Service
PSC	Processor Signal Congestion
PSE	Pulsing Error
PST	Permanent Signal Time-out
PTS	Proceed To Send
PVL	Pre-assigned Value List

Abbreviations

Q

Q

Queue

QPE

Q.931 Protocol Error

R

RCDG

Recording

RCDS

Records

RCVR

Receiver

RDB

Routing Data Block

REL

Release

REPT

Report

RES

Resume

RLC

Release Complete

RLG

Release Guard

Abbreviations

ROA

Reorder Announcement

RQA

Receiver Queue Abandon

RR

Route and Record

RSB

Reset Band

RSC

Reset Circuit

RST

Reset

RTE

Route Command

RTNR

Real-Time Network Routing

RTORT

Real-Time Overload Retry Treatment

S

SAB

Sub-Account Billing

SACDS

Spontaneous Access to Call Delivery Service

SADC

Special Access Data Channel

Abbreviations

SAFER

Switch Access Flexible Egress Routing

SAM

Subsequent Address Message

SAN

Sub-Account Number

SAP

Service Activation Parameter

SC

Service Code

SCAR

Stable Call Accumulating Register

SCCP

Signaling Connection Control Part

SCGA

Software Carrier Group Alarm

SCP

Service Control Point

SCS

Service Circuit System

SD Segmentation Directory

SDN

Software Defined Network

SDU

Sequence Dialing Unit

SDVG

Switched Digital Video Gateway

SEC

Switching Equipment Congestion

Abbreviations

SF	Single Frequency
SGT	Common Channel Interoffice Signaling (CCIS) Signaling Trouble
SIAQ	Send Information Analyzed Query
SICONFIT	SINT Confused Incoming Trunk
SICONFOT	SINT Confused Outgoing Trunk
SIF	Signaling Information Failure
SII	Service Identity Index
SILC	Selective Incoming Load Control
SINT	System Integrity
SMCC	Switching Management Control Center
SMO	Segmentation Mode of Operation
SMS	Service Maintenance System
SNA	Service Not Active
SNF	Signaling Network Failure

Abbreviations

SOCC
SMS Originating Code Controls

SP Service Processor

SPC
Signaling Point Code

SSB
Subscriber Station Busy

SSD
Second Start Dial

SSN
Subsystem Number

SSP
Service Switching Point

SST
Signaling Service Type

SSU
Subsequent Signaling Unit

ST
Start

STO
Signaling Time-Out

STP
Signal Transfer Point

SUSP
Suspended

SVICT
State Vector Incoming Trunk

SVOGT
Outgoing State Vector

Abbreviations

SZ
Seizure

T

TAS
Terminating AT&T Switch

TC
Toll Connect

TCA
Test Control Area

TCAP
Transaction Capabilities Application Part

TCC
Technical Control Center

TCE
Test Call Error

TERA
Trunk Error Analysis

TG
Translations Guide

TLIN
Test Line

TMAD
Trunk Maintenance Administration

TMAINT
Trunk Maintenance

Abbreviations

TNS	Transit Network Selection
TO	Type of Origin
TOC	Trunk Operations Center
TOLLMFD	Toll Operator Trunk—MF With Delay Dial
TOP	Task Oriented Practices
TOPT	Trunk Operational Test
TOS	Type Of Service
TOT	Type Of Trunk
TPT	Test Progress Tone
TQA	Multifrequency Transmitter Queue Abandon
TRKSTAT	Trunk Status
TRN	Trunk Rating Number
TSG	Trunk Subgroup
TSI	Time Slot Interchange

Abbreviations

TSN

Trunk Scanner Number

TSPC

Two-Stage Pulsing Call

TSPS

Traffic Service Position System

TT

Talking Trunk

TTO

Terminating Toll Office

TTS

Terminating Toll Switch

TTSI

Transmit Time Slot Interchange

TUP

Telephone User Part

TWOSTGDR

Two-stage Digit Reception

U

UBC

Unsupported Bearer Capability

UCA

Unauthorized Centralized Automatic Message Accounting (CAMA)

UDS

Unit Data Service Message

Abbreviations

UGTT

Universal Global Title Translation

ULB

Unequipped Label

UNN

Unallocated Number

URS

Unreasonable Signal

USDS

Universal Subscriber Data Structure

USI

User Service Information

UUI

User-to-User Information

UXS

Unexpected Stop

V

VAC

Vacant Code

VACANAL

Vacant Code Analysis

VAS

Via AT&T Switch

VC

Vacant Code

Abbreviations

VCNTANAL

Vacant Code Analysis Program

VMA

Vacant Mass Announcement

VNC

Via Node Congestion

VNN

Vacant National Number

VPA

Voice Path Assurance

VPN

Virtual Private Network

VSS

Voice Storage System

VSSID

Voice Storage System Identity

VTs

Via Toll Switch

W

WAC2

Wait for Second Acknowledgement

WACK

Wait for Acknowledgement

WAT

Waiting Answer Time-out

Abbreviations

WSNO

Wink Start No Out Pulse

WTSG

Worst Trunk Subgroup

X

XCVR

Transceiver

XST

Expected Stop Time-out

Abbreviations

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