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DMS-100 Family

North American DMS-100

Office Parameters Reference Manual Volume 2 of 3
OFCENG, OFCOPT, OFCSTD, ISDNVAR

LEC0015 and up Standard 14.02 May 2001

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1 OFCENG parameters (continued)

This chapter contains the office engineering (OFCENG) table parameter descriptions. For information on the OFCENG table parameter descriptions, refer to the Office parameters summary in Volume 1.

R2_AN_ANSWER_FLTR_TIME

Parameter name

R2 Analog Answer Filter Time

Functional description

A switching unit with R2 signaling requires this parameter. This parameter specifies the length of time that the answer signal must be present before the answer signal is recognized as a valid signal.

Rules in provisioning

Specify the length of time for answer signal recognition. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_ANSWER_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_BLK_FLTR_TIME

Parameter name

R2 Analog Block Filter Time

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the filter time for blocking or line signaling that is not normal during idle.

Rules in provisioning

Specify the filter time for blocking or line signaling that is not normal during idle. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not have memory impact.

Dump and restore rules

Copy the current value of this parameter when you do a dump and restore.

R2_AN_BLK_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_CLR_BCK_FLTR_TIME

Parameter name

R2 Analog Clear Back Filter Time

Functional description

An office with R2 analog signaling requires this parameter. This parameter specifies the time that the clear back line signal must be present before the signal is recognized as a valid signal.

Rules in provisioning

Specify the time for clear back signal recognition. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents a period of 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_CLR_BCK_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_CLR_FWD_FLTR_TIME

Parameter name

R2 Analog Clear Forward Filter Time

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the length of time that the clear forward line signal must be present before the signal is recognized as a valid signal.

Rules in provisioning

Specify the length of time for clear forward line signal recognition. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_CLR_FWD_FLTR_TIME (end)

Components

This parameter was introduced in BCS25.

R2_AN_IDLE_FLTR_TIME

Parameter name

R2 Analog Idle Filter Time

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the filter time for a valid idle line signal after a clear forward signal.

Provisioning rules

Specify the filter time for a valid line signal after a clear forward signal. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_IDLE_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_OG_CSM_FLTR_TIME

Parameter name

R2 Analog Outgoing Channel Supervision Message Filter Time

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the filter time on channel supervision messages (CSM) for the recognition of a valid clear forward line signal.

Rules in provisioning

Specify the filter time on CSM for valid clear forward signal recognition. The value of this parameter appears in 10 ms units. For example, the default value of 8 represents 80 ms.

Range information

Minimum	Maximum	Default
0	255	8

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not have memory impact.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_OG_CSM_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_RE_ANS_FLTR_TIME

Parameter name

R2 Analog Reanswer Filter Time

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the filter time for recognition of a valid reanswer signal after a clear back signal.

Rules in provisioning

Specify the filter time for recognition of a valid reanswer signal after a clear back signal. The value of this parameter appears in 10 ms units. For example, the default value of 30 represents 300 ms.

Range information

Minimum	Maximum	Default
0	255	30

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_RE_ANS_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_RLS_ACK_FLTR_TIME

Parameter name

R2 Analog Release Acknowledgement Filter Time

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the filter time for the recognition of a valid release acknowledgement line signal.

Rules in provisioning

Specify the filter time for the recognition of a valid release acknowledgement line signal. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_RLS_ACK_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_RTS_GUARD_TIME

Parameter name

R2 Analog Ready To Send Guard Time

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the length of time the system waits to send a clear forward signal. The system sends a clear forward signal after the system receives a ready to send signal from the outgoing trunk.

Rules in provisioning

Specify the length of time the system waits to send a clear forward signal. The system sends a clear forward signal after the system receives a ready to send signal from an outgoing trunk. The value of this parameter appears in 160 ms units. For example, the default value of 15 represents a wait of 2.4 s.

Range information

Minimum	Maximum	Default
0	255	15

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not have memory impact.

R2_AN_RTS_GUARD_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS25.

R2_AN_SEIZE_FLTR_TIME

Parameter name

R2 Analog Seize Filter Time

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the filter time for recognition of a valid seize line signal.

Rules in provisioning

Specify the filter time for seize signal recognition. The value of this parameter appears in 10 ms units. For example, the default value of 8 represents 80 ms.

Range information

Minimum	Maximum	Default
0	255	8

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not have memory impact.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS25.

R2_AN_WAIT_BEFORE_CF

Parameter name

R2 Analog Wait Before Clear Forward

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the length that the system waits to send a clear forward signal. The system sends a clear forward signal after the system sends a seize message.

Rules in provisioning

Specify the length of time that the system waits to send a clear forward signal. The system waits to send a clear forward signal after the system sends a seize message. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

R2_AN_WAIT_BEFORE_CF (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS25.

R2_AN_WAIT_FOR_ANSWER

Parameter name

R2 Analog Wait For Answer

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the length of time that a trunk waits for an answer signal after the trunk receives all of the address digits.

Rules in provisioning

Specify the length of time that a trunk waits for an answer signal after the trunk receives all of the address digits. The value of this parameter appears in seconds.

Range information

Minimum	Maximum	Default
0	32767	300

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_WAIT_FOR_ANSWER (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_WAIT_FOR_IDLE

Parameter name

R2 Analog Wait For Idle

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the length of time that a trunk waits for idle after the trunk receives a release acknowledgment signal.

Rules in provisioning

Specify the length of time that a trunk waits for idle after the trunk receives a release acknowledgment signal. The value of this parameter appears in 160 ms units. For example, the default value of 15 represents a value of 2.4 s.

Range information

Minimum	Maximum	Default
0	255	15

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2_AN_WAIT_FOR_IDLE (end)

Parameter history

This parameter was introduced in BCS25.

R2_AN_WAIT_FOR_RLS_ACK

Parameter name

R2 Analog Wait For Release Acknowledgement

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the length of time that the system waits for a release acknowledgement signal after the system receives a clear forward signal.

Rules in provisioning

Specify the length of time that the system waits for a release acknowledgement signal after the system received a clear forward signal. The value of this parameter appears in 160 ms units. For example, the default value of 15 represents a wait of 2.4 s.

Range information

Minimum	Maximum	Default
0	255	15

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

R2_AN_WAIT_FOR_RLS_ACK (end)

Parameter history

This parameter was introduced in BCS25.

R2_TEST_CALL_ANI

Parameter name

R2_TEST_CALL_ANI

Functional description

The parameter R2_TEST_CALL_ANI is datafilled with the required ANI digits that are picked up from the R2_TEST_CALL_ANI parameter. After an outgoing R2 trunk is posted, the R2 calls originating from the MAP use the OP command at the TTP level.

Provisioning rules

A maximum of 10 ANI digits are sent for the test calls on the R2 trunk.

Range information

Minimum	Maximum	Default
0	10	NIL

Activation

Immediate

Dependencies

None

Consequences

A maximum of 10 ANI digits are datafilled.

Verification

Follow these instructions to verify that the R2_TEST_CALL_ANI parameter is set to the correct value:

1. On a MAP terminal, access table OFCENG:
table OFCENG
2. Enter:
pos R2_TEST_CALL_ANI

If the current value of the displayed parameter is set to 4005, it is listed as follows:

R2_TEST_CALL_ANI (end)

R2_TEST_CALL_ANI

4005

Memory requirements

There are no memory requirements.

Dump and restore rules

This new parameter does not require data from previous loads or the use of reformatting procedures.

Parameter history

EUR008

Office parameter, R2_TEST_CALL_ANI, is created in table OFCENG in EUR008.

R2DIG_ABNRML_DURING_IDLE

Parameter name

R2 Digital Abnormal Signaling Condition During Idle

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the timer that logutil uses to report a log after signaling condition that is not normal occurs during idle.

Rules in provisioning

Specify the timer that logutil uses to report a log after signaling condition that is not normal occurs during idle. The value of this parameter appears in seconds.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and Return To Service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_ABNRML_DURING_IDLE (end)

Parameter history

This parameter was introduced in BCS25.

R2DIG_ABNRML_DURING_OPLS

Parameter name

R2 Digital Abnormal During Outpulse

Functional description

A switching unit with R2 analog signaling requires this parameter. This parameter specifies the filter time that is used to determine a change of line signaling during outpulsing. The system ignores any change of line signaling that lasts for a period of time less than the time that this parameter specifies.

Rules in provisioning

Specify the filter time used to determine a change of line signaling during outpulsing. The value of this parameter appears in 10-ms units. For example, the default value of 10 represents a filter time of 100 ms.

Range information

Minimum	Maximum	Default
0	2 55	1 0

Activation

Busy (BSY) and Return To Service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_ABNRML_DURING_OPLS (end)

Parameter history

This parameter was introduced in BCS25.

R2DIG_ANSWER_FLTR_TIME

Parameter name

R2 Digital Answer Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the length of time that the answer line signal must be present before the signal is recognized as a valid signal.

Rules in provisioning

Specify the length of time for answer signal recognition. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_ANSWER_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2DIG_BLK_FLTR_TIME

Parameter name

R2 Digital Block Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the filter time required to block line signaling that is not normal during idle.

Rules in provisioning

Specify the filter time required to block line signaling that is not normal during idle. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents a filter time of 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_BLK_FLTR_TIME (end)

Components

This parameter was introduced in BCS25.

R2DIG_CD_BITS

Parameter name

R2 Digital CD Bits

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the two-bit hex string for initialization of the CD bits.

Rules in provisioning

Specify the two-bit hex string for initialization of the CD bits. The acceptable values are 00, 01, 10, and 11.

Range information

Minimum	Maximum	Default
		01

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS25

R2DIG_CLR_BCK_FLTR_TIME

Parameter name

R2 Digital Clear Back Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter determines the difference between a valid signal and a glitch. The parameter specifies the length of time that the clear-back signal must be present before the signal is recognized as a valid signal.

Rules in provisioning

Specify the length of time required for clear-back signal recognition. The value of this parameter appears in 10 ms units. For example, the default value of 30 represents 300 ms.

Range information

Minimum	Maximum	Default
0	255	30

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_CLR_BCK_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2DIG_CLR_FWD_FLTR_TIME

Parameter name

R2 Digital Clear Forward Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the length of time that a clear forward signal must be present before the signal is recognized as a valid signal.

Rules in provisioning

Specify the length of time for clear forward signal recognition. The value of this parameter appears in 10 ms units. For example, the default value of 20 represents 200 ms.

Range information

Minimum	Maximum	Default
0	255	20

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_CLR_FWD_FLTR_TIME (end)

Components

This parameter was introduced in BCS25.

R2DIG_HOLD_SZ_IN_Glare

Parameter name

R2 Digital Hold Seize In Glare

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the length of time that a trunk stays in the seized condition after double seizure.

Rules in provisioning

Specify the length of time that a trunk stays in the seized condition after double seizure. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_HOLD_SZ_IN_Glare (end)

Components

This parameter was introduced in BCS25.

R2DIG_IDLE_AFTER_GLARE

Parameter name

R2 Digital Idle After Glare

Functional description

A switching unit with R2 digital signaling requires this parameter. The parameter specifies the length of time that a trunk stays in the idle condition after this trunk returns to idle following double seizure.

Rules in provisioning

Specify the length of time that a trunk stays in the idle condition after this parameter returns to idle following double seizure.

The value of this parameter is expressed in 10 ms units. For example, the default value of 10 represents 100 ms.

Range information

Minimum	Maximum	Default
0	2 55	1 0

Activation

BUSY (BSY) and RETURN TO SERVICE (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

R2DIG_IDLE_AFTER_GLARE (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS25.

R2DIG_IDLE_FLTR_TIME

Parameter name

R2 Digital Idle Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the filter time for a valid idle line signal after the system receives a clear-forward signal.

Rules in provisioning

Specify the filter time for a valid idle line signal after the system receives a clear-forward signal. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents a filter time of 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_IDLE_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2DIG_OG_CSM_FLTR_TIME

Parameter name

R2 Digital Outgoing CSM Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the filter time on CSM for the recognition of a valid reanswer signal that follows a clear-back signal.

Rules in provisioning

Specify the filter time on CSM for the recognition of a valid reanswer signal that follows a clear-back signal. The value of this parameter appears in 10 ms units. For example, the default value of 10 represents a filter time of 100 ms.

Range information

Minimum	Maximum	Default
0	255	10

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_OG_CSM_FLTR_TIME (end)

Components

This parameter was introduced in BCS25.

R2DIG_RE_ANS_FLTR_TIME

Parameter name

R2 Digital Recognition of Answer Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the filter time for recognition of a valid reanswer signal that follows a clear-back signal.

Rules in provisioning

Specify the filter time for recognition of a valid reanswer signal that follows a clear-back signal. The value of this parameter appears in 10 ms units. For example, the default value of 30 represents a filter time of 300 ms.

Range information

Minimum	Maximum	Default
0	255	30

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_RE_ANS_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2DIG_SEIZE_ACK_FLTR_TIME

Parameter name

R2 Digital Seize Acknowledgement Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the filter time for recognition of a valid seize acknowledgement line signal.

Rules in provisioning

Specify the filter time for recognition of a valid seize acknowledgement line signal. The value of this parameter appears in 10 ms units. For example, the default value of 2 represents a filter time of 20 ms.

Range information

Minimum	Maximum	Default
0	255	2

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_SEIZE_ACK_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2DIG_SEIZE_FAILURE_TIME

Parameter name

R2 Digital Seize Failure Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the length of time that a trunk waits for the next line signal while in one of the following states:

- the seize acknowledgement
- the wait for answer state

Rules in provisioning

Specify the length of time that a trunk waits for the next line signal while in the seize acknowledgement or wait for answer state. The value of this parameter appears in seconds.

Range information

Minimum	Maximum	Default
0	255	20

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

R2DIG_SEIZE_FAILURE_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS25.

R2DIG_SEIZE_FLTR_TIME

Parameter name

R2 Digital Seize Filter Time

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the filter time for recognition of a valid seize line signal.

Rules in provisioning

Specify the filter time for recognition of a valid seize line signal. The value of this parameter appears in 10-ms units. For example, the default value of 2 represents 20 ms.

Range information

Minimum	Maximum	Default
0	255	2

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_SEIZE_FLTR_TIME (end)

Parameter history

This parameter was introduced in BCS25.

R2DIG_WAIT_FOR_ANSWER

Parameter name

R2 Digital Wait For Answer

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the length of time that a trunk waits for an answer after this trunk receives all of the address digits.

Rules in provisioning

Specify the length of time that a trunk waits for answer after this trunk receives all of the address digits. The value of this parameter appears in seconds.

Range information

Minimum	Maximum	Default
0	32767	300

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_WAIT_FOR_ANSWER (end)

Components

This parameter was introduced in BCS25.

R2DIG_WAIT_FOR_SEIZE_ACK

Parameter name

R2 Digital Wait For Seize Acknowledgement

Functional description

A switching unit with R2 digital signaling requires this parameter. This parameter specifies the length of time that a trunk waits for a seize acknowledgement signal that follows a seize signal.

Rules in provisioning

Specify the length of time that a trunk waits for a seize acknowledgement signal following a seize signal. The value of this parameter appears in 160-ms units. For example, the default value of 20 represents 3.2 s.

Range information

Minimum	Maximum	Default
1	25	20

Activation

Busy (BSY) and return to service (RTS) the affected peripheral modules.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

R2DIG_WAIT_FOR_SEIZE_ACK (end)

Parameter history

This parameter was introduced in BCS25.

R2SM_TIMEOUT

Parameter name

R2 Simplified Test Timeout

Functional description

This parameter is for use with the R2 Simplified Test. During this test, the incoming exchange translates incoming register signals and routes the call to the correct testline termination. After the return of the answer signal, a composite 1020 + 1140 Hz tone returns to the originating exchange in the answer state. The originating exchange transmits a composite tone of 1380 + 1980 Hz to acknowledge the test. The incoming exchange then stops the sending of the composite tone.

The originating exchange continues to transmit the tone for a period that this parameter defines. Enter this acknowledgement in time periods that range from 0.5 s to 5 s.

Rules in provisioning

Set this parameter to the required acknowledgement interval in increments of 0.5 s. This value must be an integer. Multiply the time interval by two before you enter the value. For example, the default value of 4 denotes an interval of 2 s.

Range information

Minimum	Maximum	Default
1 (0.5 s)	10 (5 s)	4 (2 s)

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

R2SM_TIMEOUT (end)

Memory requirements

Each unit requires one word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS34.

RDT_SO_AUTOCREATE_LNINV

Parameter name

RDT_SO_AUTOCREATE_LNINV

Functional description

Use the service order system (SERVORD) to automatically add or delete a line entry in table LNINV for remote fiber terminal (RFT) lines in an S/DMS AccessNode system. Office parameter RDT_SO_AUTOCREATE_LNINV determines if this auto-create capability is activated. This office parameter provides default values for table LNINV.

The value of this parameter consists of two boolean values. The first boolean value determines activation. The second boolean value determines the value of the MNO field in table LNINV when SERVORD adds or alters an LNINV tuple.

The MNO field in LNINV determines if the system allows a balance network test to automatically update the balance network value (BNV) field of LNINV. If MNO is Y, the system does not allow to test automatically update the BNV field. If the MNO is not set to Y, the system allows the results of the test to update the BNV field.

Some lines, like those that support electronic business sets (EBS) and integrated services digital network (ISDN) services, must have MNO set to Y. The table control software for LNINV prevents any attempt to set MNO to N (no) for these lines. The table control software changes the value to Y. This feature does not affect that functionality.

The following table lists the the possible parameter values.

Possible parameter values (Sheet 1 of 2)

Parm Values	Explanation
Y Y	Activation of auto-create occurs. The MNO field in any LNINV tuple that SERVORD created or altered on RFT lines is set to Y.
Y N	Activation of auto-create occurs. The MNO field in any LNINV tuple that SERVORD created or altered on RFT lines is set to N if possible (Certain line types require Y).

RDT_SO_AUTOCREATE_LNINV (continued)**Possible parameter values (Sheet 2 of 2)**

Parm Values	Explanation
N N	Activation of auto-create does not occur. The MNO field in any LNINV tuple that SERVORD altered on RFT lines is set to N if possible.
N Y	Activation of auto-create occurs. The MNO field in any LNINV tuple that SERVORD altered on RFT lines is set to Y.

The default values are Y N. Activation of auto-create occurs, and the balance network test automatically updates the BNV field in table LNINV.

Rules in provisioning

The default value is set automatically. The operating company personnel can change the value in agreement with office or company policy.

Range information

Minimum	Maximum	Default
Does not apply	Does not apply	Y N

Activation

Immediate. If the operating company personnel make a change to the office parameter, SERVORD transactions that involve RFT lines will use the value.

A change to the office parameter does not affect lines entered earlier.

Dependencies

The second boolean of the office parameter affects the MNO field in LNINV. The value in the parameter sets the MNO value in an LNINV tuple that SERVORD alters or adds. The performance of this boolean is separate from the setting of the first boolean, which is feature enable/disable. If the feature is disabled, the MNO value is set to the values in the office parameter. The BNV is set to NL as long as an entered LNINV tuple is present.

Consequences

Does not apply

RDT_SO_AUTOCREATE_LNINV (end)

Verification

When the office parameter changes, the operating company personnel can check the status of the office parameter. To check the status, the operating company personnel add service to a line through SERVORD for an RFT line. The transaction creates an LNINV tuple if one is not present, or alters a tuple that already is present.

The MNO field of this new LNINV tuple must be the same value entered in the second boolean value of the RDT_SO_AUTOCREATE_LNINV.

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history

LEC002, CDN002, LET002

First release of parameter.

RECOVERY_INTERVAL_AFTER_RELOAD

Parameter name

Recovery Interval After Reload

Functional description

This parameter is common to all switching units. This parameter regulates the amount of time, in minutes, that the scheduler assigns higher percentages of call processing unit (CPU) time. The schedule assigns higher percentages of CPU time to guaranteed terminals and maintenance that follow a reload or restart. This action results in loss of call processing. This action occurs when guaranteed terminals and maintenance require the additional time.

As a result, login and terminal response time from guaranteed terminals and maintenance activities increases. This increase in response time occurs immediately after a reload restart in a heavily loaded switch.

When the time specified by this parameter expires, the CPU time available for the different scheduler classes reverts to normal volumes. The value of the parameter GUARANTEED_TERMINAL_CPU_SHARE in table OFCENG defines these volumes.

A switching unit that is not loaded does not indicate any visible effect. The scheduler gives any time that is not used to any class that requires it.

Rules in provisioning

Leave this parameter at the default value unless Northern Telecom instructs you to change the parameter value.

Range information

Minimum	Maximum	Default
0	45	10

Activation

A new value occurs immediately and applies to the next reload restart.

Dependencies

Does not apply

RECOVERY_INTERVAL_AFTER_RELOAD (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

BCS21

This parameter was introduced in BC521.

RECOVERY_INTERVAL_AFTER_WARMCOLD

Parameter name

Recovery Interval After Warm or Cold Restart

Functional description

This parameter is common to all switching units. This parameter specifies the amount of time, in minutes, that the scheduler assigns 16% of the call processing unit (CPU). The scheduler assigns this time to the guaranteed terminals scheduler class after a warm or a cold restart.

This percentage applies if the switch is under a heavy load and the guaranteed terminal class requires additional time. The scheduler enforces the percentages given to the different classes if CPU time is not available. More available time for guaranteed terminals increases login and response time at guaranteed terminals after a restart. The additional time offered to guaranteed terminals is from the time normally offered to call processing.

When the time specified by this parameter expires, the CPU time available for the different scheduler classes reverts to the volumes. The value of the parameter GUARANTEED_TERMINAL_CPU_SHARE in table OFCENG defines these volumes.

A switching unit that is not loaded does not indicate any visible effect. The scheduler gives any time that is not used to any class that requires it.

Rules in provisioning

Leave this parameter at the default value unless Northern Telecom instructs you to change the the parameter value.

Range information

Minimum	Maximum	Default
0	20	2

Activation

A new value occurs immediately and applies to the next reload-restart.

Dependencies

Does not apply

RECOVERY_INTERVAL_AFTER_WARMCOLD (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

BCS21

This parameter was introduced in BCS21.

REMTERMEQP

Parameter name

Remote Terminal Equipped

Functional description

A local SuperNode switch requires this parameter. This parameter indicates to the DMS-CORE computing module (CM) routine exercise (REX) test software if a terminal connects to the CM remote terminal interface (RTIF) remote channel.

The CM REX test software can verify the accuracy of this parameter with the RTIF status data.

Rules in provisioning

This parameter can remain at the default of Y. If this occurs, the CM REX test software can verify that the RTIF status data indicates the appearance of a remote terminal. If this parameter has a value of Y, and a remote terminal is not present, the REX test fails.

Set this parameter to a value of N if a remote terminal is not equipped.

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

A value that is not correct for this parameter results in an invalid failure of the CM REX test. A value that is not correct also can result in a CM REX test RTIF diagnostic cover that is not complete.

REMTERMEQP (end)

Verification

To verify that this parameter is set correctly, use command interpreter (CI) command sequence TABLE OFCENG, POS REMTERMEQP and verify the given result.

Memory requirements

Does not apply

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

BCS25

This parameter was introduced in BCS25.

REVERSE_EC_EQUIP

Parameter name

Reverse Echo Canceller Equipped

Functional description

A DMS-100 switch for trunks uses this parameter with the use of the different United Kingdom (UK) national User Part (BTUP) signaling system. This parameter specifies the connection configuration of the echo canceller (EC) modules that connect to the switch. This information is passed directly to the central control (CC). Static downloading passes this information on to the XMS-based peripheral module (XPM).

Rules in provisioning

To specify the normal EC connection configuration, set the value of this parameter to N.

To specify the reverse wired EC connection configuration, set the value of this parameter to Y.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate (in the CC)

The XPM must receive information about a change in the value of this parameter. The XPM can receive this information with the use of any of the following methods:

- WARM SWACT the XPM twice
- COLD SWACT the XPM
- Manually busy (BSY) and return to service (RTS) the XPM

Dependencies

Does not apply

REVERSE_EC_EQUIP (end)

Consequences

If the value of this parameter does not match the connection configuration, the call processing logic of the activation of the EC modules is not correct.

Verification

Check the EC modules connection configuration. Verify that the value of this parameter matches the configuration.

Memory requirements

Each unit requires one word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS35.

REVRING

Parameter name

Revertive Ringing

Functional description

This parameter is required for a switching unit with revertive ringing. It controls the operation of the revertive ringing feature.

Provisioning rules

The value of this parameter can be set to `CONDITIONAL_REVRING`, `REVRING` or `NO_REVRING`.

When the value is `REVRING` and an 8 or 10 party line makes a call to a party on the same line, the calling party does not receive a ring splash if the call is from tip to ring, or ring to tip. When the call is from tip to tip or ring to ring, both parties hear ringing.

When the value is `REVRING` and a two or four party line makes a call to a party on the same line, the calling party receives a ring splash if the call is from tip to ring or ring to tip. When the call is from tip to tip or ring to ring, both parties hear ringing.

When the value is `CONDITIONAL_REVRING` and a 2, 4, 8, or 10 party line with coded ringing makes a call to a party on the same line, the calling party receives a ring splash if the call is from tip to ring or ring to tip. When the call is from tip to tip or ring to ring, both parties hear ringing.

When the value is `NO_REVRING` and a 2, 4, 8, or 10 party line makes a call to a party on the same line, the calling party does not receive a ring splash if the call is from tip to ring or ring to tip. When the call is from tip to tip or ring to ring, both parties hear ringing.

When the value is `CONDITIONAL_REVRING` in a switching unit with superimposed ringing and a 4 party line with the ONI option (8 party line is automatically ONI), if the party line dials a 7 digit number that is a reverting call, the calling party receives dial tone and must dial the party identification code. The calling party then receives Originating Revertive Multi-party treatment. When the calling party goes on-hook both parties are rung. The calling party gets ring splash and the called party gets normal ringing.

REVRING (continued)

Range information

Minimum	Maximum	Default
		REVRING

Activation

Immediate

Dependencies

The operating company is responsible for supplying each subscriber of a 4PTY or 8PTY ONI line with a party identification digit as outlined in the following tables.

Four party superimposed ringing subscribers are identified with the following digits:

Four-party superimposed ringing

Party	Digit
Ring party negative (R-)	2
TIP party negative (T-)	3
Ring party positive (R+)	4
TIP party negative	5

REVRING (end)

Eight party superimposed ringing subscribers are identified with the following digits:

Eight-party superimposed ringing

Party	Digit
RING party negative (R-)	2
TIP party negative (T-)	3
RING party positive (R+)	4
TIP party positive (T+)	5
Ring party negative (R-)	6
TIP party negative (T-)	7
RING party positive (R+)	8
TIP party positive (T+)	9

Consequences

Not applicable

Verification

Not applicable

Memory requirements

This parameter has no memory impact.

Dump and restore rules

Copy the existing value of this parameter when doing a dump and restore.

RING_NO_ANSWER_TMO

Parameter name

Ringling Number Answer Timeout

Functional description

This parameter is necessary for an International Switching Center with R1 signaling.

The default value for this parameter is T3, a 3.3 min timeout.

The following table outlines additional values for this parameter.

Value for RING_NO_ANSWER_TMO

Value	Timeout
T2	2 min
T4	4 min
T30	30 min

Rules in provisioning

Specify the timeout period that must pass before the system releases a connection if the system does not receive an answer signal.

Range information

Minimum	Maximum	Default
		T3

Activation

This feature does not require a restart.

Reload the peripheral modules (PM) that the parameter affects.

Reload the EXECs in all peripherals with incoming R1 trunks.

Dependencies

Does not apply

RING_NO_ANSWER_TMO (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS20.

RINGCTRL_MIN_VALUE

Parameter name

Ring Control Minimum Value

Functional description

This parameter allows the operating company to set the minimum number of rings that end users can program for the telephone. The operating company performs this action on a switch-wide base. The operating company uses the Subscriber Programmable Ringing (SPRING) for call forwarding do not answer (CFDA) feature.

The SPRING feature considers any number of rings less than the parameter to be wrong. For example, when the parameter is set to 0, the SPRING feature considers the ring selection of 0 to 9 ring to be correct. This ring selection is the ring selection of an end user. If the parameter is set to 5, the SPRING feature considers the ring selection of an end user to be invalid. The ring selections are 0 to 4 rings. The feature considers selections of 5 to 9 rings to be correct.

Changes to this parameter do not affect earlier options made on SPRING-equipped lines. For example, the operating company changes the parameter from 2 to 5. In this occurrence, the SPRING feature does not update all current SPRING-equipped lines to make sure that all ring counts are five or greater.

Rules in provisioning

There are no rules in provisioning.

Range information

Minimum	Maximum	Default
0	9	2

Activation

Immediate

Dependencies

Does not apply

RINGCTRL_MIN_VALUE (end)

Consequences

Does not apply

Verification

Check table OFCENG to verify the value of this office parameter.

Memory requirements

This office parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA005

This parameter was introduced in NA005.

RINGCTRL_ZERO_CAN_RING

Parameter name

Ring Control Zero Cancel Ringing

Functional description

The value of this parameter defines, office-wide, if the system delivers a reminder ring to the telephone of an end user. This definition occurs if the end user set the number of rings to 0. The end user must use the Subscriber Programmable Ringing (SPRING) for CFDA feature to set the ring number.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
		YES

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Check table OFCENG to verify the value of this office parameter.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

RINGCTRL_ZERO_CAN_RING (end)

Parameter history

NA005

This parameter was introduced in NA005.

RLCM_ESA_NOTIFY_TONE

Parameter name

Remote Line Concentrating Module Emergency Stand Alone Notify Tone

Functional description

This parameter allows the user to specify a modulated (on/off) tone instead of standard dial tone. This tone alerts users about to go off-hook that a remote line concentrating module (RLCM) is in emergency stand alone (ESA) mode.

Rules in provisioning

Set the value of this parameter to Y to set a modulated tone to alert users about to go off-hook that an RLCM is in ESA mode.

Set the value of this parameter to N to specify a standard dial when an RLCM is in ESA mode.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Activation is immediate in the CC, but activation occurs only at the time of the update of ESA static data each night. The user can enter the LOADPDM command with ESADATA command option for the specified ESA module to activate the parameter.

Dependencies

Does not apply

Consequences

Does not apply

Verification

If the parameter is present and set to Y, the user receives continuous bursts of tone instead of standard dial tone. The continuous bursts of tone (.25 s on/ .25 s off) occurs when the XPM that hosts the station is in ESA mode.

RLCM_ESA_NOTIFY_TONE (end)

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

This parameter was introduced in BCS31.

Copy the current value of this parameter when you perform a dump and restore.

RLCM_ESAENTRY_BADCSIDE

Parameter name

Remote Line Concentrating Module Emergency Stand Alone Entry Bad C-side

Functional description

This parameter controls the performance of the following features:

- remote line concentrating module (RLCM) emergency stand alone (ESA) feature
- the remote digital line module (RDLM) ESA feature

Rules in provisioning

The value of this parameter represents the desired delay between the communication failure and the change to ESA mode. The communication failure occurs between RLCM or RDLM and the C-side peripheral. The loop around message mechanism detects these conditions.

Specify the delay time in one minute intervals. For example, a value of 6 specifies a period of 6 min.

Range information

Minimum	Maximum	Default
1	60	15

Activation

Use the BUSY (BSY) and RETURN TO SERVICE (RTS) commands for the RLCMs or RDLMs.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

RLCM_ESAENTRY_BADCSIDE (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS20.

RLCM_ESAENTRY_BADLINK

Parameter name

Remote Line Concentrating Module Emergency Stand Alone Entry Bad Link

Functional description

This parameter controls the performance of the following features:

- the remote line concentrating module (RLCM) emergency stand alone (ESA) feature
- the remote digital line module (RDLM) ESA feature

Rules in provisioning

The value of this parameter is the delay desired between links failure and the RLCM or RDLM change to ESA mode.

Define the delay time in 10 s intervals. For example, a value of 6 indicates a delay of 60 s.

Range information

Minimum	Maximum	Default
3	100	3

Activation

Use the BUSY (BSY) and RETURN TO SERVICE (RTS) commands for the RLCMs or RDLMS.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

RLCM_ESAENTRY_BADLINK (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS21.

RLCM_ESASDUPD_BOOL

Parameter name

Remote Line Concentrating Module Emergency Stand Alone Static Data Update Boolean

Functional description

This parameter controls the performance of the following features:

- the remote line concentrating module (RLCM) emergency stand alone (ESA) feature
- the remote digital line module (RDLM) ESA feature

Rules in provisioning

This parameter value determines if the system will download ESA static data to all RLCMs and RDLMs equipped with the ESA feature. This download occurs during the update each night.

If you choose the default value of Y , the system downloads the static data during the update each night.

If you set the value to N , the static data does not download during the update each night.

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

RLCM_ESASDUPD_BOOL (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS21.

RLCM_ESASDUPD_HOUR

Parameter name

Remote Line Concentrating Module Emergency Stand Alone Static Data Update Hour

Functional description

This parameter controls the performance of the following features:

- the remote line concentrating module (RLCM) emergency stand alone (ESA) feature
- the remote digital line module (RDLM) ESA feature

Rules in provisioning

The value of this parameter is the time each day when the system starts to download ESA static data to all RLCMs. The system downloads this data in sequence, according to the data in table LCMINV. This value is also the time each day when the system starts to download ESA static data to all RDLMs. The system downloads this data in sequence, according to data in table DLMINV.

Specify the time for ESA static data download in one hour intervals (for example, a value of 4 represents 4:00 a.m.).

The value of the parameter must meet the following requirements:

- The time is a period of low traffic on the switch.
- The time is not the same time as the LCM or DLM REX test that occurs each week.
- The time is not the same time as the RSC update each night. Refer to parameter RSC_ESASDUPD_HOUR in table OFCENG.

Range information

Minimum	Maximum	Default
0	23	4

Activation

Immediate

RLCM_ESASDUPD_HOUR (end)

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS21.

RLCM_XPMESAEXIT

Parameter name

Remote Line Concentrating Module XMS-based Peripheral Module
Emergency Stand Alone Exit

Functional description

This parameter controls the performance of the following features:

- the remote line concentrating module (RLCM) emergency stand alone (ESA) feature
- the remote digital line module (RDLM) ESA feature

Rules in provisioning

The value of this parameter is the length of the desired delay. This delay indicates the time between the following:

- restored links
- recovery of communication with C-side peripheral
- return of RLCM or RDLM from ESA mode

Specify the time in 10 s intervals. For example, a value of 2 represents a delay of 20 s.

A value of 0 indicates that the user must enter a Return To Service (RTS) command.

Range information

Minimum	Maximum	Default
0	100	0

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

RLCM_XPMESAEXIT (end)

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

This parameter was introduced in BCS21.

Copy the current value of this parameter when you perform a dump and restore.

RM_SYNC_BURST

Parameter name

Rapid Messaging Synchronization Burst

Functional description

This parameter stores the number of messages to send on one rapid messaging synchronization audit cycle. Each message contains data for 20 lines.

Provisioning rules

This parameter is in table OFCENG. Change the parameter with the table editor. Setting the value of this parameter to 0 causes audit functionality to interrupt.

Range information

Minimum	Maximum	Default
0	5	1

Activation

Immediate

Dependencies

Not applicable

Consequences

Increasing the value of this parameter speeds the synchronization of computing module (CM) and XMS-based peripheral module (XPM) rapid messaging states. Also, increasing the value of the parameter increases the audit message traffic between the CM and the peripheral. When the value of this parameter is 0, audit functionality interrupts.

Verification

This parameter resides in table OFCENG. The default value for this parameter is 1. If the value of this parameter increases, the number of audit messages from the CM to the peripheral also increases.

Memory requirements

Not applicable

RM_SYNC_BURST (end)

Dump and restore rules

Not applicable

Parameter history

NA010

This parameter was introduced by AF7449, BRI Maintenance for Rapid Messaging.

RM_SYNC_DELAY

Parameter name

Rapid Messaging Synchronization Delay

Functional description

This parameter stores the time delay (in seconds) between rapid messaging synchronization audit cycles.

Provisioning rules

This parameter is in table OFCENG. Change the parameter with the table editor.

Range information

Minimum	Maximum	Default
15	60	30

Activation

Immediate

Dependencies

Not applicable

Consequences

Increasing the value of this parameter slows the synchronization of computing module (CM) and XMS-based peripheral module (XPM) rapid messaging states.

Verification

This parameter resides in table OFCENG. The default value for this parameter is 30. If the value of this parameter increases, the delay in time between each rapid messaging burst also increases.

Memory requirements

Not applicable

Dump and restore rules

Not applicable

RM_SYNC_DELAY (end)

Parameter history

NA010

This parameter was introduced by AF7449, BRI Maintenance for Rapid Messaging.

RMI_RING_TIMERS

Parameter name

Remote Message Indicator (RMI) Ringing Timers

Functional description

Office Parameter RMI_RING_TIMERS specifies the two ringing timers that the Remote Message Indicator (RMI) feature uses.

The MSG timer is the time before the system forwards a call to the VMS when the system queues a MWI message against the terminating line.

The NOMSG timer is the time before the system forwards a call to the VMS when there is no MWI message queued against the terminating RMI line.

Provisioning control exists when you set the timer values so the MSG timer value is always less than the NOMSG timer value.

Note: The MSG and NOMSG timers must be at least 6 s apart to provide a different ringing cycle number. Each ringing cycle is equal to 6 s.

Rules in provisioning

Does not apply

Range information

Range information for MSG follows:

Minimum	Maximum	Default
12 s (2 rings)	60 s (10 rings)	12 s (2 rings)

Range information for NOMSG follows:

Minimum	Maximum	Default
12 s (2 rings)	60 s (10 rings)	24 s (4 rings)

Activation

Immediate

RMI_RING_TIMERS (end)

Dependencies

Does not apply

Consequences

Does not apply

Verification

Users can verify the office parameter RMI_RING_TIMERS as set in table OFCENG.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA008

This parameter was created in NA008.

RNG_TMEOUT_NO_OF_SECS

Parameter name

Ringling Timeout Number of Seconds

Functional description

This parameter is required for local switching units in North America or local, international, switching units with common translations. This parameter specifies the time in one second intervals that remains before ringing on a line times out.

This value downloads to the appropriate peripheral modules (PM).

The parameter value may be set to 0. A value of 0 indicates there is no ringing timeout for a PM connected to an international line group controller (ILGC) in a local, international, switching unit.

Rules in provisioning

Set the value of this parameter, in 1 s intervals, equal to the time in seconds before ringing on a line times out.

Range information

Minimum	Maximum	Default
1 (North America) (International)	0 326	240 (four min)

Activation

All PMs that support line concentrating devices (LCD) require a BSY and RTS command. A PM that connects to an extended multiprocessor system (XMS)-based PM (XPM) does not require a BSY and RTS command. For LCDs that connect to a XPM, BSY and RTS only have to occur on one LCD for each XPM. To BSY and RTS one LCD for each XPM, busy both units of the LCD at the same time. The user enters the commands BSY PM and RTS PM.

Dependencies

Does not apply

RNG_TMEOUT_NO_OF_SECS (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS36

Corrected activation information in BCS36.

RNG_TMEOUT_TKLN_SECS

Parameter name

Ringling Timeout Trunk to Line in Seconds

Functional description

This parameter defines the time, in seconds, the system allows for the ringing tone to apply during trunk to line calls.

When user A calls user B during a trunk to line call, and B does not answer, the system can apply ringing. The system applies ringing for the duration that this parameter specifies. When this time expires the terminating office stops the ringing.

Rules in provisioning

Specify the length of time for the ringing tone to apply during trunk to line calls.

The value of this parameter must be higher than the pre-answer timeouts for toll and international calls. Field PREANSTO in table CTRLTMRs specifies the pre-answer timeout values.

The pre-answer timeout for a specified call class can be a value of 0 or greater than the value of this parameter. If this event occurs the ringing timeout for the call class equals the value of this parameter.

The user can leave the value of this parameter at the default of 0. If this event occurs the system uses the ringing timeout specified by office parameter RNG_TMEOUT_NO_OF_SECS in table OFCENG for trunk to line calls.

Range information

Minimum	Maximum	Default
0	326	0

Activation

Immediate

RNG_TMEOUT_TKLN_SECS (end)

Dependencies

Office parameter RNG_TMEOUT_NO_OF_SECS in table OFCENG specifies the time that the system applies a ringing tone for line to line calls.

Consequences

If the value of this parameter remains below the pre-answer timeout for toll and international calls, the parameter controls the answer timeout of the calls.

Verification

To verify that this parameter operates, perform the following steps:

1. Set PREANSTO fields in table CTRLTMRS to any value smaller than the value of this parameter except 0.
2. Verify that the answer timeouts equal the PREANSTO values.
3. Set PREANSTO fields in table CTRLTMRS to 0.
4. Verify that the ringing timeouts equal the value of this parameter.

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

This parameter was introduced in BCS36.

Parameter history

This parameter was introduced in BCS36.

ROTL_OUT_OF_SERVICE_LEVEL

Parameter name

Remote Office Test Line Out of Service Level

Functional description

All switching units with the remote-office test line (ROTL) unit require this parameter. This parameter specifies the percentage of trunks that the ROTL can put out of service.

Rules in provisioning

The parameter can have the following values:

- NA (NO ALARM)
- MN (MINOR ALARM)
- MJ (MAJOR ALARM)
- CR (CRITICAL ALARM).

To change these values to a percentage, refer to fields MINALM, MAJALM, or CRITALM in table CLLIMITCE.

Range information

Minimum	Maximum	Default
		MJ

Activation

Immediate

Dependencies

Refer to fields MINALM, MAJALM, or CRITALM in table CLLIMITCE.

Consequences

Does not apply

Verification

Does not apply

ROTL_OUT_OF_SERVICE_LEVEL (end)

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

ROTL_TIME_IN_20MIN

Parameter name

Remote Office Test Line Time In 20 Minute Intervals

Functional description

All switching units with the remote-office test line (ROTL) unit require this parameter. This parameter specifies the maximum time the system waits for incoming messages from ROTL test ports and associated ROTL scan points. This parameter specifies the maximum time in 20 minute intervals.

Rules in provisioning

Specify the maximum time, in 20 min intervals, to wait for incoming messages from ROTL test ports and ROTL scan points.

Range information

Minimum	Maximum	Default
1	9	1

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform dump and restore.

ROUTE_ON_FOT

Parameter name

Route On Forward Transfer

Functional description

This parameter applies to DMS-300-gateway switching units. The parameter determines how the system handles forward transfer signals on CCITT #5 and #6 signaling trunks.

Rules in provisioning

When this parameter is set to a value of Y, the following condition occurs. The forward transfer signals that CCITT #5 or #6 signaling trunks receive cause the switching unit to drop current connections to CCITT R1 or #7 signaling trunks.

The digits held in office parameter FOT_DIGITS facilitate an attempt to establish another connection.

When this parameter is set to N, the switch uses the normal method to handle forward transfer signals. For most inter-workings, the the switching unit propagates the forward transfer.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Refer to parameter FOT_DIGITS in table OFCVAR.

Verification

Does not apply

ROUTE_ON_FOT (end)

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS29.

RSC_ESA_NOTIFY_TONE

Parameter name

Remote Switching Center Emergency Stand Alone Notify Tone

Functional description

This parameter associates with the Distinctive Tone Burst For Emergency Operation feature. The Distinctive Tone Burst for Emergency stand alone (ESA) functions of remote cluster controllers (RCC). This parameter allows short bursts of tone preceding standard dial tone to remote switching terminals (RST). This tone indicates that emergency operation is in effect to users that have gone off-hook.

Rules in provisioning

To activate the Distinctive Tone For Emergency Stand Alone Operation feature, set the parameter to Y (yes) .

Set the parameter to N (no) to deactivate the Distinctive Tone For Emergency Stand Alone Operation feature.

Range information

Minimum	Maximum	Default
		N

Select this value to make sure that the normal and emergency modes of switch operation are clear to subscribers.

Activation

Activation is immediate.

Activation is immediate within the CC. In the specified peripheral, activation occurs with the update of RCC ESA static data each night. The ESA DATA command with the LOADPM command for the specified peripheral also can activate this parameter.

Dependencies

Does not apply

RSC_ESA_NOTIFY_TONE (end)

Consequences

Does not apply

Verification

Check that the station user receives six short bursts of tone before the standard dial tone. The station user must receive the tone when the XMS-based peripheral module (XPM) that hosts the station is in ESA mode. This parameter must be set to Y (yes).

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the existing value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS30.

RSC_ESASDUPD_BOOL

Parameter name

Remote Service Center Emergency Stand Alone Static Data Update Boolean

Functional description

A switching unit with the remote cluster controller (RCC) and the emergency stand alone (ESA) feature requires this parameter. This parameter appears only in switching units with the RCC and the ESA feature.

The value of this parameter determines if the system downloads ESA static data to all RCCs. This condition occurs during the update each night of the remote switching center (RSC) static data.

Rules in provisioning

If the default value of Y is set, the system downloads static data during the update each night.

If the value of this parameter is set to N, the system does not download static data during the update each night.

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

RSC_ESASDUPD_BOOL (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS20.

RSC_ESASDUPD_HOUR

Parameter name

Remote Service Center Emergency Stand Alone Static Data Update Hour

Functional description

A switching unit with the remote cluster controller (RCC) and the emergency stand alone (ESA) feature requires this parameter. This parameter only appears in switching units with the RCC and the ESA features.

Rules in provisioning

The value of this parameter is the daily starting time for downloading ESA static data. The system downloads ESA static data to all remote service centers, in a sequence, according to the table RCCINV datafill.

The value of this parameter represents time in hour intervals, based on the 24 hour clock. For example a value of 2 specifies a start time of 02:00.

Range information

Minimum	Maximum	Default
0	23	1

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

RSC_ESASDUPD_HOUR (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter History

This parameter was introduced in BCS20.

RSC_XPMESAEXIT

Parameter name

Remote Cluster Controller Xms-based Peripheral Module Emergency Stand Alone Exit

Functional description

A switching unit with the remote cluster controller (RCC) and the emergency stand alone (ESA) feature requires this parameter. This parameter appears only in switching units that have RCC and the ESA feature.

The RSC_XPMESAEXIT parameter determines if the system initiates ESA exit. This parameter also determines if the ESA exit requires manual shut down. This parameter determines how long the system waits to initiate the ESA exit.

Rules in provisioning

Set the value of this parameter to one of the following:

- the delay required between restoration of links and the change of the remote service center out of ESA mode
- the delay required between recovery of communication with C-side peripheral and the change of the remote service center out of ESA mode

This parameter defines delay time in 10 s intervals. For example, a value of 2 indicates a delay of 20 s. The default setting of 6 indicates that after a 60 s delay, the system initiates an ESA exit. Refer to Range Information for more information about settings.

A value of N indicates that the user must perform a manual return to service (RTS) to exit ESA.

The range of values type is RSC_ESA_EXIT_TYPE with the following multiple values:

SYSTEM_ESA_EXIT	{N, Y}
EXIT_DELAY	{0 to 100}

The SYSTEM_ESA_EXIT field is a boolean that determines if the system initiates an ESA exit (Y). The SYSTEM_ESA_EXIT field also determines if the ESA exit requires a manual ESA exit (N).

RSC_XPMESAEXIT (continued)

The EXIT_DELAY field determines how long the system waits to initiate the ESA exit. The value is not zero if the system initiates the ESA exit. The delay increases each time in 10 s increments.

Range information

Minimum	Maximum	Default
0	100	6

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

To verify the SYSTEM_ESA_EXIT, the field is Y. To verify the XPM_EXIT_DELAY, the field is 6.

Use the following procedure to verify:

1. Set the parameter to the default value in table OFCENG as follows:

RSC_XPMESAEXIT	Y	6
----------------	---	---

2. From the MAP display, post an InSv RCC.
3. Break RCC C-side msg links at DSX.
4. From the MAP display, observe RCC go from InSv to CBsy to SysB.
5. From the MAP display, observe the ESA timer count start at 60.
6. From the MAP display, observe the system warm exit RCC.

Memory requirements

This parameter value requires one word of memory.

RSC_XPMESAEXIT (end)

Dump and restore rules

This parameter was introduced in BCS20.

Copy the current value of this parameter when you perform a dump and restore.

If the parameter RSC_XMPESAEXIT delay set to 0, then the new parameter is set as follows in the current release:

RSC_XPMESAEXIT	N	0
----------------	---	---

The previous software release can have the parameter RSC_XMPESAEXIT delay set to setting that is not 0. If this setting occurs, the new parameter is set as follows:

RSC_XPMESAEXIT	Y	<dt>
----------------	---	------

where <dt> is the ESA exit delay time of the previous software release.

RSDT_ENABLED

Parameter name

Restricted Dial Tone Enabled

Functional description

This parameter controls RSDT functionality.

Provisioning rules

When set to N by the RSDT command DEACT, only one RSDT DN may be added, deleted or modified in table DNROUTE.

When set to Y by the RSDT command ACT, exactly one RSDT DN must be datafilled in table DNROUTE. If the RSDT DN is not datafilled in table DNROUTE then the transition of the RSDT_ENABLED office parameter from N to Y is aborted, the RSDT command fails, and an error message is generated.

Note: When this parameter is set to N and IN_EFFECT lines remain in table RSDTLIN, the value of this parameter cannot be changed.

Range information

Minimum	Maximum	Default
N	Y	N

Activation

Immediate

Dependencies

Not applicable

Consequences

Not applicable

Verification

To verify the setting of this parameter, enter the CI command

```
>table ofceng; pos rsdt_enabled
```

RSDT_ENABLED (end)

and read the following entry

RSDT_ENABLED N

Memory requirements

This parameter requires one bit of storage.

Dump and restore rules

Not applicable

Error message for RSDT**Error message for office parameter RSDT_ENABLED**

Error message	Description	Result
CANNOT CHANGE OR REPLACE THE RSDT_ENABLED TUPLE. USE RSDT COMMAND	Attempt to change the value of the office parameter in table OFCENG using table editor commands.	The command fails and an error message is displayed at the MAP.

Parameter history**NA010**

This parameter was created.

SAPARMS

Parameter name

Service Analysis Parameters

Functional description

Units with the Service Analysis feature, software package NTX065AA, require this parameter.

A Turkey Local and Toll switching unit with software package NTX906AA International Service Analysis requires this parameter.

Rules in provisioning

Use the information in Table “Field descriptions” to determine the values you need to provision this parameter.

Field descriptions

Field	Subfield or refinement	Entry	Explanation and action
OFC		alphanumeric	<i>Office name</i> Input the office name. The default value for this field is OFFICE.
MAXTSECS		1 to 120	<i>Maximum talk seconds</i> Enter the time, in seconds, that the voice monitor is on. The default value for this field is 30 (30 s).
MAXUSERS		1 to 5	<i>Number of service analysis users</i> Input the maximum number of service analysis users. The default value for this field is 3.
SYSTONE		Y or N	<i>Tone</i> Input Y to enable automatic report of connection of tone in analyzing switching unit; or enter N. The default value for this field is Y.
SYSANN		Y or N	<i>Announcement</i> Input Y to enable automatic report of connection of announcement in analyzing switching unit; or enter N. The default value for this field is Y.

Range information

Minimum	Maximum	Default
		OFFICE 30 3 Y Y

Activation

Warm restart

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

SC_OP_ANI_REQ_TIME

Parameter name

SC and OP Trunk Automatic Number Identification Request Time

Functional description

Switching units with the 4X Operation - Bell Format automatic number identification (ANI) feature require this parameter. The parameter specifies the maximum time, in 1 s intervals, that an OP trunk waits for the ANI request signal. The ANI request is from the far end for a call that originates from a SuperCAMA (SC) trunk.

Rules in provisioning

If the time is other than 15 s, specify the time in 1 s intervals that an OP trunk waits for the ANI request signal. The ANI request signal is from the far end for a call that originates from a SC trunk.

If the switching unit does not require this feature, leave the value of this parameter at the default value.

Range information

Minimum	Maximum	Default
0	59	15

Activation

Immediate

Dependencies

Does not apply

Consequences

If the time interval is too short, the system routes calls from SC to OP trunks to ANIFAIL.

If the time interval is too long, the holding time for calls from SC to OP trunks can increase.

SC_OP_ANI_REQ_TIME (end)

Verification

Set up a call between an SC and OP trunk without an ANI request signal from the far end. Verify how long the OP trunk waits for an ANI request signal.

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS25.

SCREEN_AC_LOGIDS

Parameter name

Screen Attendant Console Login Identifiers

Functional description

A Meridian Stored Logic 100 (MSL100) switching unit requires this parameter. This parameter specifies if the unit requires the validation of an attendant LOGIN ID.

The value of this parameter can be set to Y. If an attendant attempts to log in with an ID entered in table ACLOGID, the system ignores the office parameter check. If this event occurs, and the login meets all other checks, the system permits the attendant to log in.

If the attendant attempts to log in with an ID that is not entered in table ACLOGID, the system rejects the login attempt. The attendant receives the message DISALLOWED on the key lamp display, and the system generates a LOGFAIL report.

If the parameter is set at the default value, the attendant can log in with an ID that is not entered in table ACLOGID. The system allows the login if the attendant is not already logged in using the same ID.

The attendant can use any three-digit login IDs to log in, except 000. The attendant cannot use numbers that are already in use by other attendants at other console positions.

Rules in provisioning

Set the value of this parameter to Y to require validation of the login ID of an attendant.

Leave the value of this parameter at the default value if you do not require validation of the login ID of an attendant.

Range information

Minimum	Maximum	Default
		N

SCREEN_AC_LOGIDS (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

The value of this parameter can be set to Y. A Y value rejects an attempt to log in at an attendant console with a login ID not entered in table ACLOGID. The system rejects the login attempt and displays the message **DISALLOWED** on the key lamp display. The system generates a LOGFAIL report for this condition.

The value of this parameter can be set to N. A N value allows an attendant to log in at a console with a login ID not entered in table ACLOGID. The system accepts the LOGIN.

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter History

This parameter was introduced in BCS27.

SDB_QUERY_TIMEOUT

Parameter name

Services Database Query Timeout

Functional description

A switching unit with Telecom Canada automated calling card service (ACCS) requires this parameter. Operating companies that use BellCore ACCS use the field TIMEOUT in tables CCVPARMS and BNSPARMS. The operating company uses field TIMEOUT to provide the function of this parameter.

Rules in provisioning

The value of this parameter specifies the length of time the system waits after a services database (SDB) sends an SDB query. After the length of time elapses and the SDB does not receive a reply, the system generates a timeout error. The parameter specifies the length of time in seconds.

Range information

Minimum	Maximum	Default
0	255	2

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter value requires one word of memory.

SDB_QUERY_TIMEOUT (end)

Dump and restore rules

Previous to BCS34, this parameter was parameter ACCS_QUERY_TIMEOUT. A dump and restore from BCS33 or lower to BCS34 or higher causes a format procedure (QUERY_TIMEOUT_RFMT) to delete an office parameter. This office parameter is in offices that use BellCore ACCS. The procedure renames the parameter in offices that use Telecom Canada ACCS.

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced with software release BCS34.

SDS_ENABLED

Parameter name

Special Delivery Service Enabled

Functional description

This parameter allows the operating company to activate and deactivate the Access to Messaging feature and the Enhanced Busy Call Return (EBCR) feature. The operating company activates and deactivates these features on an office wide standard.

Rules in provisioning

Set the value of this parameter to Y to activate the Access to Messaging service or the Enhanced Busy Call Return (EBCR) service. Both services can be available if the end office is set up to support these features. Set the value of this parameter to N to deactivate Access to Messaging Service or EBCR. An error occurs when a tuple of table SDSINFO is empty and a user sets this parameter to Y.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Verify that this parameter is set in table OFCENG.

Memory requirements

This parameter does not have memory requirements.

SDS_ENABLED (end)

Dump and restore rules

Does not apply

Parameter history

NA004

This parameter was introduced in NA004.

SEP_EQIPPED

Parameter name

Service Evaluation System Equipped

Functional description

Local, toll or combined local/toll switching units require this parameter. This parameter specifies if the DMS Service Evaluation System (SES) interface feature resides in software.

The value of this parameter is set to Y if the DMS SES interface resides in software. This parameter must be set to Y in switching units with the DMS SES Interface feature, software package NTX215AA.

This feature is part of the interface between the DMS and the No. 2 Service Evaluation System (No.2 SES). The No.2 SES evaluates call completion and produces statistics on call disposition. The No. 2 SES generates call completion and condition information that stimulates maintenance on facilities with bad performance records. The No. 2 SES can detect some false uses of network resources.

The DMS/No.2 SES interface is a completely automated system for service evaluation.

The DMS performs two types of service evaluation. The type of switching unit determines the type of evaluation:

- Incoming Trunk Service Evaluation (ITSE) evaluates calls incoming from an InterLATA Carrier Point of Presence. These calls route through an access tandem to an end switching unit.
- Dial Line Service Evaluation (DLSE) evaluates calls that originate from lines and fit the standard North American numbering plan.

Rules in provisioning

Only Northern Telecom personnel can change the value of this parameter.

Range information

Minimum	Maximum	Default
		Y

SEP_EQIPPED (end)

Activation

Immediate

Dependencies

This feature requires the Multi-Protocol Controller software package (NTX273AA) to function correctly.

This feature requires table SEILINKS, if the value of this parameter is set to Y.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS23.

SERVORD_TABLE_PROTECTION_ON

Parameter name

Servord table protection on

Functional description

This parameter maintains the setting of an internal variable over a one night process (ONP). It prevents the internal variable from being reset over an ONP. Also, depending on the setting of the parameter it continues to allow or prevent the use of the table editor to update selected table settings.

Provisioning rules

This parameter cannot be be changed manually using table control. Use the command SOTBPROT to change the parameter. Changing the parameter changes the table editor control immediately. Enter Y (yes) to disable the table editor and force the SERVORD command usage to update tables. Enter N (no) to allow table editor updates and potentially allow table corruption.

Range information

Minimum	Maximum	Default
		Y

Activation

No further action is required.

Requirements

Not applicable.

Results

Not applicable.

Testing

Not applicable.

Memory requirements

Not applicable.

SERVORD_TABLE_PROTECTION_ON (end)

Dump and restore rules

Not applicable.

Parameter history

LEC0011

This parameter was introduced in LEC0011. Patch CKC50 was added in LEC0010.

SET_TO_UNBALANCE

Parameter name

Set To Unbalance

Functional description

This parameter informs the Automatic Line Testing (ALT) feature to perform a balance test on all new plain ordinary telephone service (POTS) lines. The POTS lines are equipped with a STDLN padgroup.

Rules in provisioning

Set the value of this parameter to Y (yes) so that the service order sets the padgroup to UNBAL. To allow the service order to change the padgroup, the following must occur:

- a service order contains a command on a POTS line
- table LNINV is set to STDLN
- the manual overdrive (MNO) field is set to N (no)

A restart sets the value of this parameter to N. The value of this parameter is always N when an office load arrives on site.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Use a command on a POTS line with table LNINV set to STDLN and the MNO set to N to verify this parameter. After execution of the new command,

SET_TO_UNBALANCE (end)

the padgroup of the line is set to UNBAL. The system requests a balance test for this condition.

Memory requirements

This parameter requires one word of memory.

Dump and restore rules

Set the value of this parameter to N (no) when you perform a dump and restore from software release BCS32 to software release BCS32 or higher.

Parameter history

This parameter was introduced in BCS32.

SILENT_SWITCHMAN_TIMEOUT

Parameter name

Silent Switchman Timeout

Functional description

A local switching unit with maintenance assistance package software requires this parameter. Integrated Business Network (IBN) switching units with proprietary business set software require this parameter.

Rules in provisioning

The silent switchman feature requires this parameter. The parameter specifies length of time that the system cuts a line off to allow a test of an open circuit.

A tester that dials the silent switchman access code receives busy tone for 10 s. The system cuts the line off for the time that this parameter specifies to allow for test of an open circuit.

Range information

Minimum	Maximum	Default
0	255	100

Activation

Immediate

Dependencies

The silent switchman code can be a three-digit, four-digit or seven-digit number.

The CLLI table for the silent switchman feature must contain a temporary fixed code of SS MAN.

If a three-digit or four-digit number is chosen, assign the number in the HNPACODE table with code type SCD3 or SCD4 respectively.

If a seven-digit number is chosen, assign the number in the DNROUTE table.

Consequences

Does not apply

SILENT_SWITCHMAN_TIMEOUT (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

SIMRING_CENTREX_CONTROL

Parameter name

Simultaneous Ringing Centrex Control

Functional description

Office parameter SIMRING_CENTREX_CONTROL in table OFCENG determines the availability of Simultaneous Ringing (SimRing) functionality for centrex lines in an office. This office parameter controls the following pilot directory number (PDN) agents:

- IBN
- MBS primary DNs: M5xxx (key 1), except ISDN

This office parameter contains the following two fields:

- The ENABLED field enables and disables SimRing functionality. The operating company can enable or disable SimRing functionality for an office by setting the ENABLED field to Y or N. The default value is N (SimRing disabled).

Note: The ENABLED field does not control the availability of the SimRing user interface.

- The PIN_REQUIRED field enables and disables personal identification number (PIN) prompting during remote access to the SimRing user interface. The operating company can enable or disable SimRing PIN prompting for an office by setting the PIN_REQUIRED field to Y or N. The default value is N (no PIN prompting required during remote access to the SimRing user interface).

Provisioning rules

None

Range information

Minimum	Maximum	Default
		N N

SIMRING_CENTREX_CONTROL (end)

Activation

Activation of office parameter SIMRING_CENTREX_CONTROL is immediate. The following warning message displays:

```
Warning: proper provisioning of the office parameter
NO_OF_CLONE_TIDS in table OFCENG is required
```

Dependencies

Does not apply

Consequences

Does not apply

Verification

Centrex agents that assign the SIMRING line option, but do not provide SimRing functionality, have the ENABLED field set to N. Centrex agents that assign the SIMRING line option and provide SimRing functionality have the ENABLED field set to Y.

When the subscriber does not receive an "enter PIN" prompt during remote access to the SimRing user interface, the PIN_REQUIRED field is set to N. When the subscriber receives an "enter PIN" prompt during remote access to the SimRing user interface, the PIN_REQUIRED field is set to Y.

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history**NA010**

The RES Simultaneous Ringing feature added office parameter SIMRING_CENTREX_CONTROL.

SIMRING_RES_CONTROL

Parameter name

Simultaneous Ringing RES Control

Functional description

Office parameter SIMRING_RES_CONTROL in table OFCENG determines the availability of Simultaneous Ringing (SimRing) functionality for RES lines in an office. This office parameter controls 1FR and 1MR pilot directory number (PDN) agents.

This office parameter contains the following two fields:

- The ENABLED field enables and disables SimRing functionality. The operating company can enable or disable SimRing functionality for an office by setting the ENABLED field to Y or N. The default value is N (SimRing disabled).

Note: The ENABLED field does not control the availability of the SimRing user interface.

- The PIN_REQUIRED field enables and disables personal identification number (PIN) prompting during remote access to the SimRing user interface. The operating company can enable or disable SimRing PIN prompting for an office by setting the PIN_REQUIRED field to Y or N. The default value is N (no PIN prompting required during remote access to the SimRing user interface).

Provisioning rules

None

Range information

Minimum	Maximum	Default
		N N

Activation

Activation of office parameter SIMRING_RES_CONTROL is immediate. The following warning message displays:

SIMRING_RES_CONTROL (end)

Warning: proper provisioning of the office parameter NO_OF_CLONE_TIDS in table OFCENG is required

Dependencies

Does not apply

Consequences

Does not apply

Verification

RES agents that assign the SIMRING line option, but do not provide SimRing functionality, have the ENABLED field set to N. RES agents that assign the SIMRING line option and provide SimRing functionality have the ENABLED field set to Y.

When the subscriber does not receive an “enter PIN” prompt during remote access to the SimRing user interface, the PIN_REQUIRED field is set to N. When the subscriber receives an “enter PIN” prompt during remote access to the SimRing user interface, the PIN_REQUIRED field is set to Y.

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history**NA010**

The RES Simultaneous Ringing feature added office parameter SIMRING_RES_CONTROL.

SLE_ITEMS_IN_SEGMENT

Parameter name

Screening List Editing Items In Segment

Functional description

This parameter functions with the screening list editing (SLE) portion of the Call Screening Feature. Call screening services allow subscribers to screen out incoming calls. For each call screening feature, the switch maintains a list of directory numbers (DN) that identifies incoming calls for special treatment. The SLE allows the subscriber to create and modify these lists.

This parameter works with the SLE_MAX_SEGMENT_COUNT parameter to determine the size of the RESFEAT and SLELIST tables.

The value of this parameter limits the maximum length of any list. This limit is in place because all items for one list must be stored in the same segment.

This parameter can only change when there is no store allocated for SLE data. There is no store allocated for SLE data when RESFEAT and SLELIST tables are empty, and parameter SLE_MAX_SEGMENT_COUNT is 0.

Rules in provisioning

Set the parameter value to the largest possible size of any list over the engineering interval. Use the following formula to determine the parameter value:

$$A = 10L + N$$

where

A

is the maximum length of a SLE list

L

is the number of lists in the office. This value is the total of all instances of SLE features. This value becomes the number of tuples in the RESFEAT table that relate to SLE.

N

is the total number of all entries in all lists in the office. Estimate this value assuming the full use of all lists.

SLE_ITEMS_IN_SEGMENT (continued)

Range information

Minimum	Maximum	Default
1024	8191	1024

Activation

This parameter can be reset when tables RESFEAT and SLELIST are empty, and the SLE_MAX_SEGMENT_COUNT is set and activated to 0. This parameter must be set on first load build, or during a dump and restore process. Set the SLE_ITEMS_IN_SEGMENT parameter before the SLE_MAX_SEGMENT_COUNT parameter is set.

Dependencies

Calculate the value of this office parameter before you activate the SLE_MAX_SEGMENT_COUNT parameter.

Consequences

Subscribers are not able to assign the lists completely, or assign new lists when underprovisioning of this office occurs.

Overprovisioning wastes data store.

Verification

Does not apply

Memory requirements

This parameter works with the SLE_MAX_SEGMENTS_COUNT parameter to provide store for SLE lists. The store use is:

$$3 \cdot \text{SLE_MAX_SEGMENT_COUNT} \\ \times (2 + \text{SLE_ITEMS_IN_SEGMENT})$$

The number of SLE TCAP transaction identifiers, tuples in the SLELIST table, and tuples in the RESFEAT affect the SLE feature. Values in the SLE list determine the data store impact of the SLE feature.

Dump and restore rules

Recalculate the value after each office data restore, and for first loads in new offices. Calculate these values based on maximum values to the next restore.

SLE_ITEMS_IN_SEGMENT (end)

Parameter history

This parameter was introduced in BCS29.

SLE_MAX_PROGRAMMERS

Parameter name

Screening List Editing Maximum Programmers

Functional description

This parameter associates with the screening list editing (SLE) aspect of the Call Screening feature.

Call Screening services allow subscribers to screen out incoming calls. For each call screening feature the switch maintains a list of directory numbers (DN). This list of DNs identifies incoming calls for special treatment. The SLE allows the subscriber to create and modify these lists.

This parameter specifies the maximum number of SLE sessions that an office can support at the same time.

Rules in provisioning

Set the value of this parameter equal to the lowest number of SLE announcements that any one digital-recorded announcement machine (DRAM) contains. For example, two DRAMS with 18 and 24 SLE announcements are in the office. If this condition occurs, you must set the parameter value must to 18.

The maximum number of SLE programmers must not exceed the maximum number of SLE announcement circuits available in the office.

Range information

Minimum	Maximum	Default
0	127	0

Activation

Immediate

Dependencies

Does not apply

SLE_MAX_PROGRAMMERS (end)

Consequences

Overprovisioning results in a greater number than normal of users that receive NOSC treatment. Underprovisioning results in a greater number than normal of users that receive NOSR treatment.

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS29.

SLE_MAX_SEGMENT_COUNT

Parameter name

Screening List Editing Maximum Segment Count

Functional description

This parameter is associated with the screening list editing (SLE) portion of the Call Screening feature. Call screening services allow subscribers to screen out certain incoming calls. For each call screening feature a list of directory numbers (DN) identifying incoming calls for special treatment is maintained by the switch. SLE allows these lists to be created and modified by the subscriber.

This parameter defines the maximum amount of store that can be allocated for SLE lists. This parameter value can be increased or decreased. A restart is required to activate the change. This does not reflect the amount of store actually assigned, as the system only allocates store as required, and has the means to ensure that store is used efficiently. Decreasing the value does not mean that store is reclaimed. No data is lost as a result of reducing this number. Store is not released until it has been de-assigned. However, new store cannot be allocated above the set value.

Provisioning rules

Determine the value of office parameter SLE_ITEMS_IN_SEGMENT before doing this calculation.

The formula for determining the value of this parameter is:

$$PV = 5nl + ne/v$$

where

PV

is the value of this parameter

nl

is the the number of lists in the office. This is the number of tuples in the RESFEAT table that pertain to SLE lists.

ne

is the total number of all entries in all lists in the office. This is the number of tuples in the SLELIST table.

SLE_MAX_SEGMENT_COUNT (end)

v
is the value of SLE_ITEMS_IN_SEGMENT

Range information

Minimum	Maximum	Default
0	2048	0

Activation

Warm restart

Dependencies

The value of parameter SLE_ITEMS_IN_SEGMENT must be set before the value of this parameter.

Consequences

Underprovisioning of this parameter can result in subscribers being unable to fully assign their lists or assign new lists.

Verification

Not applicable

Memory requirements

This parameter works with parameter SLE_ITEMS_IN_SEGMENT to provide store for SLE lists. The store consumption is:

$$3 \times \text{SLE_MAX_SEGMENT_COUNT} \\ \times (2 + \text{SLE_ITEMS_IN_SEGMENT})$$

Dump and restore rules

This parameter was introduced in BCS29.

Copy the existing value of this parameter when doing a dump and restore.

SLE_TCAP_RESPONSE_TIME

Parameter name

Screening List Editing Transaction Capability Application Part Response Time

Functional description

This parameter functions along with the screening list editing (SLE) aspect of the Call Screening feature.

Call Screening services allow subscribers to screen out incoming calls. The switch maintains a list of directory numbers (DN) for each call screening feature. This list of DNs identifies incoming calls for special treatment. The SLE allows the subscriber to create and modify these lists.

The SLE feature must validate all the DNs that a screening list contains. The SLE uses the transaction-capability application part (TCAP) to validate internodal DNs. The SLE also uses the signaling-connection control part (SCCP) of the CCS7 protocol to validate internodal DNs. The SLE uses TCAP and SCCP to access DN data from the terminating switch.

The TCAP query/response transaction propagates DN validation.

This parameter defines, in seconds, how long the system waits for TCAP to respond to an interoffice query for DN validation. If the system reaches the parameter value before the system receives a response, the system assumes the DN data is not available. If this event occurs the system does not add the DN to SLE list of the subscriber.

Rules in provisioning

This parameter must remain at the Bellcore recommended value of 3 unless a number of brief denied responses occurs that is not acceptable.

Range information

Minimum	Maximum	Default
1	10	3

Activation

Immediate

SLE_TCAP_RESPONSE_TIME (end)

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS29.

SLE_TRANSACTION_THRESHOLD

Parameter name

Screening List Editing Transaction Threshold

Functional description

This parameter associates with the screening list editing (SLE) portion of the Call Screening Feature. Call screening services allow subscribers to screen out incoming calls. For each call screening feature the switch maintains a list of directory numbers (DN). This list of DNs identifies incoming calls for special treatment. The SLE allows the subscriber to create and modify these lists.

The system allocates data store for these lists as required. The parameter does not reclaim data store when the system releases data from assignment. When possible, the system reuses the data store. The compression process is an audit type process that eliminates the fragmentation. The compression process runs each day. Refer to the description of office parameter SLE_WAKEUP_TIME in table OFCENG.

The completion of a set number of transactions can start the compression process. The compression process can prevent a large amount of fragmentation from happening on days of heavy SLE use.

This parameter specifies the number of transactions, like list additions or deletions, that can occur before the compression process runs alone.

Rules in provisioning

This parameter must remain at the default value. The only reason to change this parameter is if the system generates a large number of SLE103 logs that indicate NO DATA STORE errors. If the system generates these logs, reduce the parameter value to half the value of transactions in the latest SLE104 logs.

The system generates a SLE104 log when the process completes. The SLE104 log contains store consumption statistics, like the store that the SLE Process reclaims, allocates, and uses.

Range information

Minimum	Maximum	Default
1024	32767	32767

SLE_TRANSACTION_THRESHOLD (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

Underprovisioning of this parameter value causes the compression process to run often, which wastes system real-time.

Overprovisioning can cause SLE data fragmentation. The SLE users may not be able to add entries to their lists until the next run of the compression process.

Refer to office parameter SLE_MAX_SEGMENT_COUNT in table OFCOPT.

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS29.

SLE_WAKEUP_TIME

Parameter name

Screening List Editing Wakeup Time

Functional description

This parameter associates with the screening list editing (SLE) portion of the Call Screening feature. Call screening services allow subscribers to screen out incoming calls. For each call screening feature the switch maintains a list of directory numbers (DN). This list of DNs identifies incoming calls for special treatment. The SLE allows the subscriber to create and modify these lists.

The system allocates data store for these lists as required. The parameter does not reclaim data store when the system releases data from assignment. When possible, the system reuses the data store. Reuse can cause store fragmentation, which results in a bad use of store. The compression process is an audit type process that eliminates fragmentation. The compression process runs each day.

This parameter uses a 24 h clock to specify the time of day when the compression process runs (0-23 h, 0-59 min).

Rules in provisioning

Set the parameter value to the start of a low traffic period to make sure the compression process runs quickly.

Range information

Minimum	Maximum	Default
0 0	23 59	1 37

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

SLE_WAKEUP_TIME (end)

Verification

Does not apply

Memory requirements

The parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS29.

SO_MAX_OPTIONS_ALLOWED

Parameter name

Service Order Maximum Options Allowed

Functional description

Office parameter SO_MAX_OPTIONS_ALLOWED controls the number of options the SERVORD system allows on a line. The end user can select a maximum of 30 or 60 options for each line.

The Service Order System (SERVORD) limits the parameter to a value of 30 or 60 options. The end user can not set the value from 60 to 30 options. The SERVORD system allows up to the number of options indicated by the parameter.

Provisioning rules

The end user can increase the number of options for each line. Table failure can occur if the end user attempts to decrease the number of options. Office parameter SO_MAX_OPTIONS_ALLOWED does not allow the end user to change the parameter from 60 to 30 options.

Range information

Minimum	Maximum	Default
30	60	30

Activation

Immediate

Requirements

Does not apply

Results

Does not apply

Testing

The operating company personnel can use SERVORD to define a line with a maximum of 30 or 60 options. Then the operating company personnel can test if office parameter SO_MAX_OPTIONS_ALLOWED has a maximum value

SO_MAX_OPTIONS_ALLOWED (end)

of 30 or 60 options. If the number of options exceeds 30 or 60, then the command to exceed the maximum number of options fails.

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history

NA012

NA012 introduces office parameter SO_MAX_OPTIONS_ALLOWED.

SOUTHBOUND-Canada only

Parameter name

South Bound

Functional description

This parameter associates with the BCS30 improvements to the 800+ Southbound feature. The 800+ Southbound feature provides the capability to route U.S. 800 numbers to any U.S. carriers that provide 800 service screening and routing to the 800 U.S. customer. This parameter assigns one of three different values (OFF, TRANSIENT, ON) which allow a phased implementation of the feature.

This feature allows the U.S. customer to purchase 800 service zone coverage in Canada and to provide multiple carrier routing capability.

Rules in provisioning

Set the parameter value to OFF to turn off the SOUTHBOUND routing.

When the parameter value is OFF, calls go to INWATS tables if the number returned from the 800+ database query is of the form 800+NXX+XXXX. If 800 does not precede the returned number, the call retranslates through normal translation.

Set the parameter value to TRANSIENT if the operating company wants to enter special routing code (SRC) entries in table NSCSNPA. The system blocks this option when the parameter is set to OFF.

First set the parameter to OFF to enter the 800+ southbound translations. At a later time the parameter must be set to ON when all translations are set up appropriately.

The parameter can be set to TRANSIENT. When this setting occurs, calls that originate in the office on incoming trunks that impulse an SRC stream proceed to table NSCSNPA. These calls must have a Number Service Code (NSC) selector entered for the call. An 800+ database query occurs if there is a match on the SRC. The call routes the same way as the call routes in the OFF mode after the 800+ database query.

SOUTHBOUND-Canada only (end)

It is important to coordinate the status of the network to deploy SOUTHBOUND. The following information can facilitate arrangement of the network status:

- Is the service control point (SCP) setup for enhanced SOUTHBOUND?
- Do other switches impulse SRCs to this switch?
- Do U.S. offices expect SRC/00Y to be outpulsed?

Set the value to ON to provide full SOUTHBOUND service.

Range information

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS30.

SPCCLITIMEOUT-Canada only

Parameter name

Stored Program Control Calling Line Information Timeout

Functional description

This parameter associates with the SPC-CMS feature. The SPC-CMS feature permits inclusion of stored program control (SPC) switches in the call management service (CMS) network. The SPC-CMS feature provides one-way CMS.

One-way CMS provides CMS features like Calling Number Delivery (CND), Automatic Call Setup (ACS), and Call Screening to the DMS subscribers. One-way CMS does not provide these features to SPC subscribers. Program control switches store the SPC switches SP-1/2W and #1ESS.

An SPC switch provides data store to hold the Calling Line Information (CLI). This action occurs while the system waits for the associated voice call to arrive. A timer starts when the system places a CLI FTRQ block in a queue. When the timer expires, the system considers the CLI invalid and releases the FTRQ block.

This parameter specifies the length of time, in seconds, that an incoming call can access the CLI from an SPC switch. After that length of time elapses, the system discards the CLI.

Rules in provisioning

Specify the maximum time difference between the SPC switch seizure of the per trunk signaling (PTS) circuit and the collection of the last digit at the DMS end for all SPC trunk circuits in the office. Specify the maximum time difference in seconds.

Range information

Minimum	Maximum	Default
1	32	9

Activation

Immediate

SPCCLITIMEOUT-Canada only (end)

Dependencies

Does not apply

Consequences

If the timeout value is set too high, you can exhaust the feature queue block resource the system uses to hold the CLI data.

If the timeout value is set too low, you can lose the CLI data before the voice call arrives.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Dump and restore rules

This parameter was introduced in BCS29.

SPDD_DIGIT**Parameter name**

Single Party Direct Dial Digit

Functional description

This parameter defines the circle digit for single, two, four, eight and ten party lines.

The circle digit feature permits eight and ten party line subscribers to dial direct when subscribers make a toll call. Each unit of the party line is assigned one circle digit from 0 to 9.

The formats that this parameter support are:

- 1+ (circle digit) + 7/10 digits
- 0 + (circle digit) + 7/10 digits

This office parameter allows single party, two party, and four party lines to dial a circle digit. This action keeps the numbering plan of the switching unit the same.

Leave this parameter at the default value of 0 if the switching unit does not support the circle digit feature.

If parameter EA_WITH_CD in table OFCENG equals N, the switching unit supports the circle digit but not the equal access feature. In this event, the parameter value ranges from 0 to 10. The value of 10 represents the circle digit 0 (zero). The value of 0 disables the circle digit feature.

If parameter EA_WITH_CD in table OFCENG equals Y, the switching unit supports the circle digit and equal access feature. In this event, the parameter value can range from 0 to 9. Circle digit 0 corresponds to the SPDD_DIGIT value 10.

Range information

Minimum	Maximum	Default
0	10	0

SPDD_DIGIT (end)

Activation

Immediate

Dependencies

The value of parameter EA_WITH_CD in table OFCENG can be set to Y. When this value is set to Y, the user cannot change the value of this parameter to 10. The value of the parameter does not change and the following message appears at the MAP:

```
THIS VALUE INCOMPATIBLE WITH EA_WITH_CD
```

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

SPILL_ANI_9**Parameter name**

Spill Automatic Number Identification 9

Functional description

A local or combined local and toll switch requires Spill Automatic Number Identification 9. This parameter specifies when the automatic number identification (ANI) outpulses on intercept calls on a trunk group with trunk type OP. Office parameter BELL_ANI_INTERCEPT_ID in table OFCENG specifies the ANI.

Rules in provisioning

Set the value of this parameter to Y. Perform this action when the ANI identification digit must outpulse on intercept calls on a trunk group with trunk type OP.

Set the value of this parameter to N. Perform this action when the intercept calls on a trunk group do not require the ANI identification digit.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Refer to office parameter BELL_ANI_INTERCEPT_ID in table OFCENG.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

SPILL_ANI_9 (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

The activation was changed to immediate.

SPMS_START_OF_MONTH

Parameter name

Switch Performance Monitoring System Start Of Month

Functional description

All switching units with the switch performance monitoring system (SPMS) require the SPMS_START_OF_MONTH parameter. This parameter specifies the day of the month for the start of the report month.

The SPMS is an optional feature available on all parts of the DMS-100 and Meridian SL-100 groups of switches. This feature provides reports of index values. These values describe how the switch operates at different levels of detail. The feature provides these reports on demand. Switch-generated operational measurements (OMs) compute the indexes each day and as an average over the report month. The customer defines the report month.

The report month index values are acceptable for use in customer administrative plans to evaluate the quality of switch performance. These values are acceptable for the evaluation of the maintenance and provisioning work that supports this performance. Operating company personnel can use the report month or the daily index values to locate and fix trouble spots in the switch.

The operating company often makes use of index plans. The company uses these plans to evaluate the operation of switches over long periods of time. The indexes used in the index plans have number values that normally range from 0 to 100. The 100 value represents correct performance. The 0 value represents worst possible performance. Index values of 98.5 or better are best. Index values in the range 96 to 98.5 are good.

Bad index values correlate with higher levels of customer trouble reports. These reports attribute to switch performance. The operating company chooses which index components are important. This choice enhances the index value correlation.

The indexes have a common interpretation. The switching technology involved does not affect the interpretation of these indexes. Components of the index are calculated based on technology-specific standards. The determination of these standards often requires a long calibration period for the technology concerned.

The indexes are reported as averages over a reporting month. The calendar determines the duration of the reporting month. The month can start on a day that is not day 1 for administrative purposes.

SPMS_START_OF_MONTH (end)

Rules in provisioning

Specify the day of the month for the start of the report month. The acceptable values range from day 1 to day 28.

Range information

Minimum	Maximum	Default
1	28	1

Activation

Immediate

Dependencies

This feature requires the following tables that the system enters at load time:

- SPMSIDX
- SPMSRSLT
- SPMSMTD.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS23

This parameter was introduced in BCS23.

SPP_MAX_PROGRAMMERS

Parameter name

Station Programmable Personal Identification Number Maximum Number of Programmers

Functional description

This parameter specifies the maximum number of users that simultaneously can perform a personal identification number (PIN) change using the Station Programmable PIN (SPP) feature.

If SPP lines are connected to pre-extended multiprocessor system (XMS)-based peripheral modules (XPM), additional Digitone (DGT) receivers are required to ensure that the use of this feature does not affect standard call processing.

In a switching unit where all the line and trunk peripherals are XPMs with universal tone receivers (UTR), no DGT receivers are used by this feature.

The value of this parameter should not exceed the number of receivers or UTRs in the switching unit.

Provisioning rules

Set this parameter to a value equal to the number of SPP announcement members that are datafilled in table ANNMEM (Announcement Members). Although UTR and DGT usage is affected by this parameter, the number of SPP announcement members directly affects simultaneous capabilities.

The default value of 0 is not recommended as it does not allow any SPP use.

Range information

Minimum	Maximum	Default
0	127	0

Activation

Immediate

Dependencies

Not applicable

SPP_MAX_PROGRAMMERS (end)

Consequences

If this parameter is underprovisioned, an excessive number of users receive No Software Resource (NOSR) treatment.

Verification

If this parameter is datafilled correctly, simultaneous SPP use is enabled for the specified number of users (SPP_MAX_PROGRAMMERS value).

Memory requirements

Each unit requires one word of memory.

Dump and restore rules

Copy the existing value of this parameter when executing a dump and restore from software release BCS32 to software release BCS32 or greater.

Parameter history

This parameter was introduced in BCS32.

SR60_BURST_MODE_SUPPORTED

Parameter name

SR60_BURST_MODE_SUPPORTED

Functional description

This parameter disables the burst-mode memory access where required. The verification procedure validates the office parameter. The write procedure updates the valid request.

Provisioning rules

Nortel (Northern Telecom) sets the correct office parameter value during loadbuild.

Range information

Nortel sets the default value for the office parameter on all 88K platforms before load delivery.

Activation

Drop synchronize and resynchronize the computing module (CM) to activate the change.

Dependencies

The following dependencies apply to this office parameter:

- The parameter setting has no direct affect on an SR50 or SR50MX platform. It will affect a future upgrade to an SR60.
- The office parameter setting has a direct affect an SR60 platform.
- The burst-mode memory access can be disabled by the office parameter on an SR70 or higher platform. The office parameter does not affect the SR70 or higher platform.

Consequences

If burst-mode memory access is enabled ("Y"), you may experience matcher transient mismatches (MTM).

If burst-mode memory access is disabled ("N"), the burst-mode memory access cannot be reenabled. The real-time performance and call processing capacity are reduced.

SR60_BURST_MODE_SUPPORTED (end)

Setting the office parameter on an SR50 or SR50MX platform affects the system performance as follows;

- If burst-mode memory access is not disabled (“Y”) before the upgrade, you may experience MTMs after the upgrade.
- If burst-mode memory access is disabled (“N”) before the upgrade, the burst mode memory access cannot be reenabled after the upgrade. The real-time performance and call processing capacity do not improve after the upgrade.

The parameter setting on SR70 and above platforms is not affected.

Verification

Not required

Memory requirements

None

Dump and restore rules

Not applicable

Parameter history

BASE11

Office parameters in table OFCENG received
SR60_BURST_MODE_SUPPORTED

SRA_BILLING

Parameter name

Suppressed Ringing Access Billing

Functional description

The SRA_BILLING office parameter contains the Service Feature Codes (SFC) which SRA Billing records include (structure code 500 - call type code 550).

This office parameter consists of the following four fields:

- SFC_LOPT - Billing records include this feature code when an SRA call attempts to terminate on an SRA-compatible line that does not have the SRA line option. If SRA is deployed on an office-wide basis, billing records include this feature code when an SRA call attempts to terminate on a line with the DENYSRA line option.
- SFC_BUSY - Billing records include this service feature code when an SRA call attempts to terminate to a busy line.
- SFC_CTHR - Billing records include this service feature code when an SRA call has successfully reached cut-through.
- SFC_INTR - Billing records include this service feature code when an SRA call is successfully interrupted by an incoming call.

Provisioning rules

There are no provisioning rules for this parameter.

Range information

Minimum	Maximum	Default
* 0	999	0
** 0	999	0
*** 0	999	0
**** 0	999	0

* Range information for the SFC_LOPT field.

** Range information for the SFC_BUSY field.

SRA_BILLING (end)

*** Range information for the SFC_CTHR field.

**** Range information for the SFC_INTR field.

Activation

Immediate. Activation requires no restart.

Dependencies

The SRA_BILLING office parameter has no dependencies. No data tables are affected.

Consequences

Changes to the values of SRA_BILLING have no consequences.

Verification

Examine the SRA_BILLING tuple in table OFCENG to verify that this parameter is set.

Memory requirements

Each field of the SRA_BILLING office parameter requires 8 bytes (4 words) of memory, each field occupies a word.

This office parameter is located in protected storage.

A change in the SRA_BILLING office parameter has no affect on memory requirements.

Dump and restore rules

The SRA_BILLING office parameter does not require any dump and restore considerations.

Parameter history

NA004

This parameter was introduced in NA004.

SRA_TIMERS

Parameter name

Suppressed Ringing Access Timers

Functional description

This parameter contains timer values for SRA. The SRA_TIMERS parameter contains the following three fields:

- OSISSETUP - The duration of Open Switch Interval (OSI) applied at call setup.
- OHTIME - The expiration value for CPE on-hook time call at call setup.
- INTRTIME - Expiration value for CPE on-hook timer at call interruption.

Provisioning rules

There are no provisioning rules for the SRA_TIMERS office parameter.

Range information

Minimum	Maximum	Default
*15 (in units of 10 milliseconds)	35 (in units of 10 milliseconds)	30 (in units of 10 milliseconds)
**1 second	99 seconds	5 seconds
***1 second	5 seconds	2 seconds

* Range information for the OSISSETUP field.

** Range information for the OHTIME field.

*** Range information for the INTRTIME field.

Activation

Immediate. Activation requires no restart.

Dependencies

The SRA_TIMERS office parameter has no dependencies. It does not affect any data tables.

SRA_TIMERS (end)

Consequences

Changing the timer values affects the SRA call.

Verification

Examine the SRA_TIMERS tuple in table OFCENG in order to verify the setting of this parameter.

Memory requirements

The memory requirements for each field of the SRA_TIMERS office parameter are as follows:

- OSISSETUP (3 bits)
- OHTIME (7 bits)
- INTRTIME (3 bits)

SRA_TIMERS requires 13 bits of memory.

This office parameter is protected in storage.

Changes to the SRA_TIMERS office parameter does not affect memory requirements.

Dump and restore rules

The SRA_TIMERS office parameter does not require any special dump and restore considerations.

Parameter history

NA004

This parameter was introduced in NA004.

SRA_TREATMENT

Parameter name

Suppressed Ringing Access Treatment

Functional description

This office parameter determines whether the switch provides a standard DMS treatment or a specific tone treatment. This parameter contains two fields:

- The value set in field TRMTTYPE determines the type of SRA treatment that the switch applies.
- If the switch provides tones, then the value in field TONETIME specifies the duration of time that the switch applies the tone.

Provisioning rules

There are no provisioning rules for the SRA_TREATMENT office parameter.

Range information

Minimum	Maximum	Default
* Standard	SRATONE	Standard
** 1 second	99 seconds	No default

* Range information for the TRMTTYPE field.

** Range information for the TONETIME field.

Activation

Immediate. Activation requires no restart.

Dependencies

If SRA_TREATMENT specifies a standard DMS treatment then the SRA feature determines the DMS treatment and the call reverts to normal call processing. This functionality implies that the terminating switch applies standard DMS treatment handling. For example, through table TMTMAP and subtables in TMTCNTL.TREAT, for which the operating company enters the datafill.

Consequences

There are no consequences.

SRA_TREATMENT (end)

Verification

Examine the SRA_TREATMENT tuple in table OFCENG the setting of this parameter.

Memory requirements

Each field of the SRA_TREATMENT office parameter requires the following amount of memory:

- TRMTTYPE (1 bit)
- TONETIME (3 bits)

SRA_TREATMENT requires 4 bits of memory.

Changes in the SRA_TREATMENT office parameter have no impact on memory.

Dump and restore rules

The SRA_TREATMENT office parameter requires no special dump and restore format considerations.

Parameter history

NA004

This parameter was introduced in NA004.

SRDBUPD_SWITCH_ID

Parameter name

Selective Routing Database Update Switch Identifier

Functional description

This parameter associates with the E911 that provides a central emergency service. The E911 provides this service through a DMS-100 or 100/200 switch that functions as an E911 tandem.

This parameter is the office identifier assigned to the switch. The automatic location identifier (ALI) database that sends recent change (RC) files assigns the office identifier to the switch. The system requests RC files from the ALI database. The file names take the following form: mmmddx.SEQ. The "mmm" represents the first three characters of the month. The "dd" is the two-digit day of the month. The "x" is the one-character switch identification that the ALI database assigns. The "x" is entered as the value of this parameter.

Rules in provisioning

The remote ALI database that sends RC files assigns the value of this parameter. Coordinate entries of this parameter with ALI database administration. The range of values for this parameter is \$ and A to Z. The default value is \$. Change the default value before you enter data for table SRDBXFER with a tuple where the DIRECT field is set to a value of OUTGOING.

Range information

Minimum	Maximum	Default
		\$

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

SRDBUPD_SWITCH_ID (end)

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you execute a dump and restore.

Parameter history

This parameter was introduced in BCS32.

SS7_CONGESTION_CONTROL_TIME

Parameter name

SS7 Congestion Control Time

Functional description

This parameter indicates the amount of time it takes to deactivate the Automatic Congestion Control (ACC) Network Management Preplan Controls. When the system activates the ACC Preplan Controls, the system must receive another ISUP release message with an Automatic Congestion Level (ACL) parameter. The system must receive this message in this timer value. If the system does not receive another release message, the system deactivates the ACC Preplan Controls.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	255	5

Activation

Does not apply

Dependencies

Does not apply

Consequences

If the value is too high, then the network management preplan controls can be active much longer than necessary.

The value can be set below five. The current timer process cannot go below 5 s. The minimum value is 5 s.

Verification

Does not apply

Memory requirements

This parameter requires an integer location.

SS7_CONGESTION_CONTROL_TIME (end)

Dump and restore rules

Does not apply

Parameter history

This parameter was introduced in NA008.

SSP_EA_ACKWINK_DELAY_TIME

Parameter name

Service Switching Point Equal Access Acknowledgement Wink Delay Time

Functional description

This parameter appears only in a local or toll switching unit that has the Service Switching Point (SSP) software package.

Rules in provisioning

The value of this parameter is equal to the time, in 10 ms intervals, that the Access Tandem/Service Switching Point (AT/SSP) delays. The AT/SSP delays before the AT/SSP sends the acknowledgement wink back to the Equal Access End Office (EAEO). When the system receives the called number from the EAEO, the AT/SSP sends the acknowledgement wink back.

The AT/SSP must delay at least 200 ms before the AT/SSP sends an acknowledgment wink to the EAEO. The AT/SSP can delay for a maximum of 1 s.

The default value is 20 (200 ms).

Range information

Minimum	Maximum	Default
20	100	20

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

SSP_EA_ACKWINK_DELAY_TIME (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you execute a dump and restore.

Parameter history

BCS36

This parameter was introduced in BCS36.

Activation changed from cold restart to immediate. Minimum parameter value changed from 10 (100 ms) to the correct value of 20 (200 ms).

SSP_NSC_CARRIER_ID

Parameter name

Service Switch Point Number Services Code Carrier Identifier

Functional description

This parameter appears only in a local or toll switching unit that has the Service Switch Point (SSP) software package. The SSP determines if the system routes an E800 call to the BOC or to interLATA carrier (IC) for completion. The system routes the call after a Transaction Capabilities Application Part (TCAP) query.

The four-digit carrier identification code (CIC) the TCAP response contains must be the same as the service code digits that this parameter specifies. If the code is the same, the system routes the call to the BOC. If the code is not the same, the system routes the call to the IC that the CIC digits specify.

Before BCS36, the value of this parameter was a three-digit CIC code. For BCS36 and later versions, you must specify a four-digit code.

Rules in provisioning

Specify the four-digit number service code (NSC) value.

Range information

Minimum	Maximum	Default
0000	9999	0110

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

SSP_NSC_CARRIER_ID (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

During a dump and restore from BCS35 and lower to BCS36 and higher the three-digit value of this parameter automatically converts to a four-digit value. Enter the previous value with a prefix of 0 (zero) to perform this conversion.

Parameter history

This parameter was introduced in BCS21.

The parameter activation requirements were changed in BCS36. The four-digit CIC code information was added in BCS36.

ST_AUDIT_START_TIME

Parameter name

Signaling Terminal Audit Start Time

Functional description

This parameter specifies the time of day (start time) at which the signaling terminal daily diagnostics audit runs.

Rules in provisioning

Specify the start time, hour (0 to 23) and the minute (0 to 59) that the ST daily diagnostics begin.

For example, if the start time is 02:30, the value is 2 30.

Range information

Minimum	Maximum	Default
0 00	23 59	2 30

Activation

The system activates a change to this parameter value on the next audit cycle.

Dependencies

Does not apply

Consequences

If set to a busy time, the daily diagnostics begin. This condition does not cause problems. The diagnostic uses real time in the switch the system uses for other audits.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

ST_AUDIT_START_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS28

This parameter was introduced in BCS28.

STINV_BLOCK_SIZE

Parameter name

Signaling Terminal Inventory Block Size

Functional description

This parameter specifies the value of the Signaling Terminal Inventory (STINV) table increase when no locations are available to store data.

Operating company personnel can use this parameter to control the degree of memory fragmentation. The parameter can decrease the amount of wasted memory.

The value of this parameter extends the size of the table each time an ST requires a new storage location. The switch must have a large number of signaling terminals for this condition to occur. The system uses this table until the table requires extension again.

If the value of this parameter is small, operating company personnel must extend the table many times. This extension occurs for switching units that contain a large number of signaling terminals. If the value of this parameter is large, extend the table only when you enter the first value for the parameter. This action improves performance. Table extension requires time. The system must copy all the entries from the small table to the large table.

When you extend the table and copy entries to the new table, the old table returns to the system. If you perform this procedure often, the memory in the switch stores the small tables. This type of storage wastes memory.

Rules in provisioning

The recommended value for this parameter is one ST greater than the number of STs in a switching unit.

If you set the parameter to a value less than the default value, the parameter uses the default value of 15.

Range information

Minimum	Maximum	Default
0	1023	15

STINV_BLOCK_SIZE (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

When this parameter is overprovisioned, the table control routine allocates a greater amount of memory than the process requires. The system does not use this memory. This type of memory is waste memory.

When this parameter is underprovisioned, table STINV causes memory to divide. The memory becomes waste memory.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS25.

SUPPRESS_ANI_TO_CLID_DISPLAY

Parameter name

Suppress Automatic Number Identification to Calling Line Identification Display

Functional description

The system can convert Automatic Number Identification (ANI) digits received over Super Centralized Automatic Message Accounting (SC) and TOPS trunks at the DMS-200 toll office. The system converts the ANI digits and TOPS trunks into address digits. These address digits are address digits of an outgoing CCS7 initial address message (IAM) calling party number parameter. This parameter provides a choice to suppress the display of ANI digits to the terminating subscriber. This display suppression is for these call types based on each office condition.

Rules in provisioning

To suppress the ANI display, set this parameter to Y (yes). To set the parameter, code the calling party number parameter as: presentation restricted.

Set this parameter to N (no) to enable the ANI display. Note the ANIATTRS screening table continues to be checked to determine the ANI must be suppressed from display.

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

SUPPRESS_ANI_TO_CLID_DISPLAY (end)

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS33.

SWCT_AMA_PREBILLING

Parameter name

Switch Of Activity Automatic Message Accounting Prebilling

Functional description

Parameter SWCT_AMA_PREBILLING allows the system to process all Automatic Message Accounting (AMA) data and output to the current AMA device.

Rules in Provisioning

You can set this parameter to Y (yes). If this event occurs, the system bills calls that are billable during the next warm SWACT. The duration of the call to the time the system processes the call for premature billing determines how the system bills calls.

The system only bills calls with Centralized Automatic Message Accounting (CAMA) or Local Automatic Message Accounting (LAMA) recordings. CAMA or LAMA calls are in switching units that use the NT or Bellcore formats are billed prematurely during a warm SWACT. LAMA calls do not include TOPS data.

DMS-250 and DMS-300 switching units do not use premature billing during a warm SWACT.

Parameter SWCT_AMA_PREBILLING does not produce data records for the following types of data:

- Station Message Detail Recording (SMDR)
- Integrated Business Network (IBN)
- TOPS data

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

SWCT_AMA_PREBILLING (end)

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

T108ISDN_TIMEOUT_IN_MINUTES

Parameter name

T108 Integrated Services Digital Network Timeout In Minutes

Functional description

When a caller makes a T108 Integrated-Services Digital Network (ISDN) test line call from an ISDN telephone, the system applies a loopback. The system applies this loopback at the line card toward the customer premises on the B-channel. The loopback remains set for the number of minutes that this parameter specifies. When the specified time passes, the system removes the call and releases the loopback.

Rules in provisioning

The recommended value for this parameter is the default of 20, which represents a time of 20 min.

Range information

Minimum	Maximum	Default
1 (min)	1440 (min)	20 (min)

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

T108ISDN_TIMEOUT_IN_MINUTES (end)

Parameter history

This parameter was introduced in BCS35.

TABLE_ADJNODE_INUSE**Parameter name**

Table ADJNODE in Use

Functional description

This parameter specifies if the switching unit uses table ADJNODE.

Table ADJNODE contains node information that relates to near nodes. Data entry for table ADJNODE must occur for ISDN user part (ISUP) and Primary Rate Interface (PRI) trunks. Each table TRKSGRP tuple has an index that indicates the ADJNODE tuple that applies to a specified trunk subgroup.

This parameter provides the capability to remove reference to the table ADJNODE because this parameter provides an index. This parameter provides an NIL index in table TRKSGRP for all ISUP trunks.

Rules in provisioning

If the value of this parameter is Y (yes), all entries for ISUP trunks in table TRKSGRP display the real index. This real index can be an index that indicates table ADJNODE or a value of NIL.

If the value of this parameter is set to N (no), this value affects all entries for ISUP trunks in table TRKSGRP. Field ADJNODE in table TRKSGRP always displays NIL. The index stored in the physical store remains unchanged.

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

TABLE_ADJNODE_INUSE (end)

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

If the value of this parameter is N during a BCS upgrade, the system stores the value NIL in physical store. The system loses the ISUP trunk information in table TRKSGRP.

Parameter history

BCS36

This parameter was introduced in BCS36.

TALK_BATTERY_ALARM

Parameter name

Talk Battery Alarm

Functional description

Office parameter TALK_BATTERY_ALARM in table OFCENG controls the activation of the Talk Battery Alarm feature. This feature provides for a periodic audit of each Line Concentrating Module (LCM) shelf in an office for talk battery. To support this feature, supply each LCM shelf in the office with at least one World Line Card (WLC).

The system reports a critical peripheral module (PM) alarm if this feature does not detect talk battery for an LCM shelf. The system reports a minor alarm for every LCM shelf that cannot perform the talk battery audit. For example, an LCM cannot perform the talk battery audit if a WLC is not provided for that shelf.

A value of Y for this parameter activates the Talk Battery Alarm feature. A value of N deactivates the Talk Battery Alarm feature. A value of N clears the talk battery associated alarms. The default value for this parameter is N. The recommended value is Y.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Note: After you enable this parameter, 10 min can pass before every LCM begins to audit for talk battery failures. The delay time depends on the length of time the LCM audit takes to cycle through every LCM in the office. An office with heavy traffic and a large number of LCMs can take longer than 10 min.

TALK_BATTERY_ALARM (end)

Dependencies

Does not apply

Consequences

Set this parameter to Y to activate the Talk Battery Alarm feature. Set this parameter to N to deactivate the Talk Battery Alarm feature. Set this parameter to N to clear associated alarms.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

NA004

This parameter was introduced in NA004.

TAPEXLATE

Parameter name

Tape Translation (TAPEXLATE)

Functional description

This office parameter is for use with the following features:

- Local Features II
- Toll Features II
- International Switching Center (ISC) Basic
- CNS Operational Measurement (OM) on Tape.

This parameter specifies the type of translation to be applied to OM registers as written to tape or disk.

Rules in provisioning

The value of this parameter depends on the operating company downstream processor type.

Specify the following types of translation:

- EBCDIC - character representation in EBCDIC
- ASCII - character representation in ASCII
- ASCII_BINARY - numeric representation in ASCII
- EBCDIC_BINARY - numeric representation in EBCDIC

Range information

Minimum	Maximum	Default
		EBCDIC

Activation

Activation is immediate, following a Device Independent Recording Package (DIRP) manual rotation.

Dependencies

Does not apply

TAPEXLATE (end)

Consequences

Ignore any change to the value of this parameter unless a rotation is performed. There is no automatic rotation on changes to this parameter. Perform a manual rotation from the DIRP level of the MAP terminal.

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

TCM_SYNC_LINES

Parameter name

Time Compressed Multiplex Synchronization Lines

Functional description

Switching units with the Datapath feature require this parameter. This parameter specifies the maximum number of Datapath lines monitored at one time.

The system monitors only 30 Datapath lines at one time because of messaging restrictions. The default value for this parameter is 30.

The process is like an audit program. The process cycles through 30 Datapath lines at a time. The office parameter TCM_SYNC_MONITOR_PERIOD in table OFCENG identifies the period of time that the process monitors each group. This process continues until the system tests all the Datapath lines, or the user issues a TCMMON STOP command.

Use the CI command TCMMON at the MAP terminal to monitor for the Datapath time compressed multiplex (TCM) synchronization (SYNC) losses.

The command TCMMON START prompts for the starting line equipment number (LEN) and the ending LEN. The LENs can span over one or more peripheral limits. An example of this span is HOST 1 0 0 0 to HOST 2 1 12 4.

The system monitors only 6X71AA and 6X71AB line cards. The system cannot route messages to DPX lines.

Rules in provisioning

Specify the maximum number of Datapath lines that the process can monitor at one time.

Leave the parameter at the default value of 30.

Range information

Minimum	Maximum	Default
1	100	30

TCM_SYNC_LINES (end)

Activation

Immediate

Dependencies

This parameter specifies the number of lines that the process monitors. The office parameter TCM_SYNC_MONITOR_PERIOD specifies the period of time that the process monitors the lines.

Consequences

The messaging load on the LCM increases when the system monitors many defective Datapath lines. The value of this parameter can increase if most Datapath lines are known to be in good condition.

Verification

Start a TCM monitoring test on the maximum number of Datapath lines. The test must be complete when the time defined for parameter TCM_MONITOR_PERIOD in table OFCENG expires.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS27.

TCM_SYNC_MONITOR_PERIOD

Parameter name

Time Compressed Multiplex Synchronization Monitor Period
(TCM_SYNC_Monitor_Period)

Functional description

This parameter is required for switching units with the Datapath feature. This parameter specifies the time duration, in 1-h intervals, that the system monitors each set of Datapath lines.

The system counts the Datapath TCM_SYNC losses over this period of time.

The TCMMON command uses the value of this parameter at the LTPDATA level of the MAP terminal. To deactivate the TCMMON command, set the value of this parameter to zero.

Rules in provisioning

Specify the time duration, in 1-h intervals, to monitor each set of Datapath lines.

Range information

Minimum	Maximum	Default
0	100	4

Activation

Immediate

Dependencies

The parameter TCM_SYNC_THRESHOLD in table OFCENG specifies the maximum number of synchronization losses allowed during the interval specified by this parameter. The synchronization losses allowed during the interval specified by the parameter, are for each line.

The parameter TCM_SYNC_LINES in table OFCENG specifies the maximum number of Datapath lines monitored at one time.

TCM_SYNC_MONITOR_PERIOD (end)

Consequences

The test length must be the minimum length of time expected to identify anticipated TCM_SYNC problems.

Verification

Start a TCM monitoring test on a Datapath line. The test normally completes in the time that this parameter specifies.

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS27.

TCM_SYNC_THRESHOLD

Parameter name

Time Compressed Multiplex Synchronization Threshold
(TCM_SYNC_THRESHOLD)

Functional description

Switching units with the Datapath feature requires this parameter. This parameter specifies the number of Datapath TCM_SYNC losses allowed on each line. Parameter TCM_SYNC_MONITOR_PERIOD in table OFCENG defines the period of time allowed for these losses.

The system flags the line as a defective Datapath line if the number of losses equals or exceeds this threshold.

Rules in provisioning

Specify the maximum number of TCM_SYNC losses allowed on each line in the period of time defined by parameter TCM_SYNC_MONITOR_PERIOD in table OFCENG.

The TCM_SYNC losses are not correct. Keep the value of this parameter low.

Range information

Minimum	Maximum	Default
1	30	3

Activation

Immediate

Dependencies

This parameter specifies the number of Datapath TCM_SYNC losses allowed on each line. Parameter TCM_SYNC_MONITOR_PERIOD in table OFCENG defines the period of time allowed for these losses.

Consequences

The log report reveals if the number of TCM_SYNC losses equals or exceeds the value of this parameter.

Replace bad lines.

TCM_SYNC_THRESHOLD (end)

Verification

You must cause the same number of SYNC losses equal to or greater than the value of this parameter. Check for report generation.

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS27.

TCW_OFFERED_ON_SCWID_DSCWID

Parameter name

Talking Call Waiting Offered on Spontaneous Call Waiting Identification and Deluxe Spontaneous Call Waiting Identification

Functional description

The TCW_OFFERED_ON_SCWID_DSCWID office parameter is used to specify if the interactions with the TCW functionality are supported by the office.

Provisioning rules

This parameter must be set to Y for the TCW functionality to support SCWID/DSCWID interactions. When this field is set to N, TCW is not offered with SCWID/DSCWID on a call waiting call. The value of this parameter does not impact the provisioning of line options. The SCWID, DSCWID, and TCW line options can be assigned to a line whatever the value of this office parameter.

Range information

Minimum	Maximum	Default
N	Y	Y

Activation

Immediate. Activation does not require a restart.

Requirements

Not applicable

Results

Not applicable

Testing

Not applicable

Memory requirements

This parameter requires one word of memory.

TCW_OFFERED_ON_SCWID_DSCWID (end)

Dump and restore rules

During a software upgrade, this office parameter will take its default value of N.

Parameter history

NA012

The TCW_OFFERED_ON_SCWID_DSCWID office parameter was introduced.

TFAN_DEFAULT_REG_LOG

Parameter name

Traffic Separation Default Register Log

Functional description

The Traffic Separation (TFAN) feature requires this parameter. Use the TFAN to enable or disable the Traffic Separation Measurement System (TSMS) information log. The TFAN indicates that the default OM register contains data.

This parameter has three fields. These fields control event types. Traffic Separation uses the following three event types:

- attempt peg
- set-up usage
- connect usage

The attempt peg and connect usage fields are important for international switching units with universal translations. International does not accumulate set-up usage.

Rules in provisioning

Fields set to Y (yes) generate the information log when the default OM register accumulates information.

Activate this report after the TSMS data is entered.

Refer to parameter TFAN_ENHANCED_FEATURE in table OFCOPT for a list of the parameters and tables that associate with this feature.

Range information

Minimum	Maximum	Default
		N N N

Activation

Immediate

TFAN_DEFAULT_REG_LOG (end)

Dependencies

Does not apply

Consequences

Does not apply

Verification

Refer to OM group TFCANA for the operational measurements that associate with this parameter.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

TFAN_IN_MAX_NUMBER

Parameter name

Traffic Separation Measurement System Incoming Maximum Number
(TFAN_IN_MAX_NUMBER)

Functional description

Switching units with the Traffic Separation Measurement System (TFAN) requires this parameter. This parameter is required if the office parameter TFAN_ENHANCED_FEATURE in table OFCOPT is set to Y (yes). More than 16 Source Traffic Separation Numbers (STSNs) are required.

This parameter specifies the maximum number of STSNs that you can assign to:

- incoming and two-way trunk groups in table TRKGRP
- lines in table LINEATTR
- network class of service numbers in table NCOS

Rules in provisioning

The user can assign the following values to this parameter:

- SIZE_15
- SIZE_31
- SIZE_63
- SIZE_127

The above values provide the following quantities of STSNs:

STSNs by parameter value

Value	Number of STSNs	STSN numbering
SIZE_15	16	0 to 15
SIZE_31	32	0 to 31
SIZE_63	64	0 to 63
SIZE_127	128	0 to 127

Leave the value at the default value for switching units without software package NTX085AA or NTX470AA.

TFAN_IN_MAX_NUMBER (continued)

Do not change the value of this parameter unless the following conditions apply:

- package NTX085AA or NTX470AA is present
- option TFAN_ENHANCED_FEATURE in table OFCOPT is set to Y

Package NTX470AA is equivalent to package NTX085AA. Use package NTX470AA when switching units (international), with universal translations.

The recommended value for a switching unit, is SIZE_63, if the following conditions apply:

- the unit is in the United States
- the unit consists of software package NTX085AA
- the value of option TFAN_ENHANCED_FEATURE in table OFCOPT is Y

Restrictions are not placed on the number of Outgoing Traffic Separation Numbers. The restrictions are not placed, based on the standard of the number of Incoming Traffic Separation numbers. For example, both incoming and outgoing numbers can use 127.

Range information

Minimum	Maximum	Default
		SIZE_15

Activation

Cold restart

When you set this parameter and perform a cold restart, you cannot decrease the value of the parameter. This feature avoids traps that can occur in table control and call processing if you use deallocated TFAN registers.

Dependencies

Refer to parameter TFAN_ENHANCED_FEATURE in table OFCOPT for other parameters and tables associated with the TFAN feature.

Consequences

Does not apply

TFAN_IN_MAX_NUMBER (end)

Verification

These registers are under the operational measurement (OM) group name TFCANA. You can query these registers from the CI level.

Memory requirements

For memory allocation, refer to parameter TFAN_ENHANCED_FEATURE in table OFCOPT.

Dump and restore rules

For switching units with software package NTX085AA or NTX470AA, copy the current parameter value when you perform a dump and restore.

For switching units without software package NTX085AA or NTX470AA, leave the value at the default of SIZE_15.

Parameter history**CSP03**

This parameter is no longer in use for CSP03 software, because field TFANIN in table TFANINT increases to value 127.

TFAN_OUT_MAX_NUMBER

Parameter name

Traffic Separation Measurement System Outgoing Maximum Number (TFAN_OUT_MAX_NUMBER)

Functional description

Switching units with the Traffic Separation Measurement System (TFAN) requires this parameter. This parameter is required if the office parameter TFAN_ENHANCED_FEATURE in table OFCOPT is set to Y (yes). This parameter is required when more than 16 destination traffic separation numbers (DTSNs) are required.

This parameter specifies the maximum number of DTSN assigned to:

- outgoing and two-way trunk groups in table TRKGRP
- lines in table LINEATTR
- network class of service numbers in table NCOS
- announcements in table ANNS
- tones in table TONES
- special tones in table STN

Rules in provisioning

Assign the following values to this parameter:

- SIZE_15
- SIZE_31
- SIZE_63
- SIZE_127

The above values provide the following quantities of DTSNs:

DTSNs by parameter value

Value	Number of DTSNs	DTSN numbering
SIZE_15	16	0 to 15
SIZE_31	32	0 to 31
SIZE_63	64	0 to 63
SIZE_127	128	0 to 127

TFAN_OUT_MAX_NUMBER (continued)

Leave the value at the default for switching units without software package NTX085AA or NTX470AA.

Do not change the value of this parameter unless the following conditions apply:

- package NTX085AA or NTX470AA is present
- option TFAN_ENHANCED_FEATURE in table OFCOPT is set to Y

NTX470AA is equivalent to NTX085AA. Use NTX470AA in switching units (international) with universal translations.

The recommended value for a switching unit is SIZE_63 if the following conditions apply:

- the unit is in the United States
- the unit consists of software package NTX085AA
- the value of option TFAN_ENHANCED_FEATURE in table OFCOPT is Y

Restrictions are not placed on the number of Outgoing Traffic Separation Numbers based on the number of Incoming Traffic Separation numbers. For example, both incoming and outgoing can use 127.

Range information

Minimum	Maximum	Default
		SIZE_15

Activation

Cold restart

When you set this parameter and perform a cold restart, you cannot decrease the value of this parameter. This feature avoids traps that can occur in table control and call processing if you use deallocated TFAN registers.

Dependencies

Refer to parameter TFAN_ENHANCED_FEATURE in table OFCOPT for other parameters and tables associated with the TFAN feature.

TFAN_OUT_MAX_NUMBER (end)

Consequences

Does not apply

Verification

These registers are under the operational measurement (OM) group name TFCANA. You can query these registers from the CI level.

Memory requirements

For memory allocation, refer to parameter TFAN_ENHANCED_FEATURE in table OFCOPT.

Dump and restore rules

Copy the current value of this parameter for switching units with software package NTX085AA or NTX470AA.

Leave the value at the default of SIZE_15 for switching units without software package NTX085AA or NTX470AA.

Parameter history

Do not use this parameter for CSP03 software because field TFANIN in table TFANINT increases to value 127.

Post CSP02

The value in table "DTSNs by parameter value" under the Number of DTSNs column was changed from 127 to 128.

TLINK_DELAY

Parameter name

T-link Delay

Functional description

Use this parameter to activate a timer on all data unit (DU) terminations. The system transmits the parameter value to all line group controllers (LGCs) or line trunk controllers (LTCs). Then the value is stored in global data.

This parameter specifies the delay, in 1 s intervals, before the system sends the message: Start T-link handshaking. The system sends the message to a DU after the DU answers the call. This delay prevents the DU change, to data mode, for the 2 s specified by the Federal Communications Commission for all data communication devices.

Rules in provisioning

You must set this parameter to the time delay that the Federal Communication Commission requires for all data transmission. The delay occurs after the call is answered and before the DU changes to data mode. This value is 2 s.

The office parameters TLINK_DELAY, TLINK_DET_TIMEOUT and TLINK_EST_TIMEOUT are all related. The values of the parameters have restrictions. Parameter TLINK_DELAY must be at least 2 s less than TLINK_DET_TIMEOUT. The TLINK_DET_TIMEOUT must be at least 1 s less than TLINK_EST_TIMEOUT.

The TLINK_DELAY can be set to zero, separate from the other two parameters.

Range information

Minimum	Maximum	Default
0	5	2

Activation

Change both the value of busy (BSY) and this parameter. Return to service (RTS) all of the affected LGC and LTC nodes that contain DUs. The change does not take effect until you follow this procedure.

TLINK_DELAY (end)

Dependencies

Parameter TLINK_DELAY must be at least 2 s less than TLINK_DET_TIMEOUT in table OFCENG. Table OFCENG must be at least 1 s less than TLINK_EST_TIMEOUT in table OFCENG.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS21.

TLINK_DET_TIMEOUT

Parameter name

T-link Detect Timeout

Functional description

Parameter T-LINK_DET_TIMEOUT activates a timer on all data unit (DU) originations and terminations. The value assigned to this parameter transmits to all line group controllers (LCG) or line trunk controllers (LTC). The system stores the value in global data.

This parameter specifies the length of time the system can wait for a message from a DU. The system specifies the length of time in intervals of 1 s after the user answers the call. This message indicates that the system detects the T-link handshake protocol from the far end. If the timer expires before the system receives the drop to data mode message, the system sends a message to the DU.

Rules in provisioning

This timeout after 2 to 4 s allows high speed data units (HSDU) to communicate with public switched digital service (PSDS) devices. This communication does not require the establishment of a T-link synchronization.

The default value of 0 s, deactivates the feature.

The recommended value when the system activates this feature is 4 s. This value provides a HSDU with the time required to detect the T-link handshake from an SL/1 ADM through several SL/1 tandem switches.

Range information

Minimum	Maximum	Default
0	10	0

Activation

Change the value of this parameter. Busy (BSY) and return to service (RTS) all affected LCG and LTC nodes that contain DUs. The change occurs when you RTS all these LTC nodes. All LGCs and RCCs go in service trouble (ISTB). You must busy and return all LGCs and RCCs to service.

You can change the value of this parameter or parameter TLINK_EST_TIMEOUT from 0 to a value that is not zero. When you change

TLINK_DET_TIMEOUT (end)

this value, the value of the other parameter changes. This event occurs when you change the value that is not zero back to 0. If the value of this parameter changes from 0 to 3, the value of the TLINK_EST_TIMEOUT parameter changes to 7.

Dependencies

This parameter associates with parameters TLINK_DELAY and TLINK_EST_TIMEOUT in table OFCENG. These values contain limits. The following rules of assignment define the possible range of values that can occur in different conditions.

Parameter TLINK_DELAY must be at least 2 s less than the value of this parameter. This parameter must be at least 1 s less than parameter TLINK_EST_TIMEOUT.

Parameter TLINK_DET_TIMEOUT and parameter TLINK_EST_TIMEOUT must have the same value. If one parameter has a value of zero, the other parameter must have a value of zero. If one parameter has a value other than zero, the other parameter must have a value other than zero.

Consequences

The TLINK_DET_EST_TIME type indicates that possible values range from 0 to 10. Parameter TLINK_DET_TIMEOUT cannot assume a value of 10. The value of this parameter must be less than the value of TLINK_EST_TIMEOUT.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS21

This parameter was introduced in BCS21.

TLINK_EST_TIMEOUT

Parameter name

T-link Establish Timeout

Functional description

This parameter activates a timer on all data unit (DU) originations and terminations. The system transmits the assigned value of this parameter to all line group controllers (LCG) or line trunk controllers (LTC). This value is stored in global data.

This parameter specifies how long to wait, after the time specified in the TLINK_DET_TIMEOUT office parameter expires, for messages from the DU. This message indicates the establishment of T-link synchronization from the far end. If the timer expires before the message is received, the DN receives the following message: Drop to Data Mode.

This timeout, that occurs after 7 s, allows high speed data units (HSDU) to communicate with public switched digital service (PSDS) devices. This communication occurs without establishing T-link synchronization.

Rules in provisioning

The default value of 0 s deactivates the feature.

When you activate the feature, the recommended value is 7 s. Choose this value because this value allows enough time for an HSDU to detect the T-link synchronization. An HSDU detects the T-link synchronization from an SL/1 ADM through several SL/1 tandem switches.

Range information

Minimum	Maximum	Default
0	10	0

Activation

Change the value of this parameter and Busy (BSY) and Return to service (RTS) affected LCG and LTC nodes that contain DUs. The change does not take effect until you follow this procedure.

TLINK_EST_TIMEOUT (end)

Dependencies

This parameter and parameters TLINK_DELAY and TLINK_DET_TIMEOUT in table OFCENG are all related. Their values have imposed restrictions. The following assignment rules define the possible range of values under different conditions.

Parameter TLINK_DELAY must be at least 2 s less than TLINK_DET_TIMEOUT. The TLINK_DET_TIMEOUT must be at least 1 s less than the value of this parameter.

If this parameter or parameter TLINK_DET_TIMEOUT has a value of zero, the other one must have a value of zero. Both must either be zero or a value other than zero.

When you change the value of either this parameter or TLINK_DET_TIMEOUT from zero the value of the other parameter changes automatically. This event also occurs when you change from a value other than zero back to zero. For example change the value of this parameter from zero to seven, the value of parameter TLINK_DET_TIMEOUT changes to three.

Consequences

Although the TLINK_DET_EST_TIME type indicates zero to ten as possible values, this parameter cannot assume a value of ten. The value of this parameter must be greater than TLINK_DET_TIMEOUT. The value of this parameter and parameter TLINK_DET_EST_TIME must both be zero or both must be a value other than zero.

Verification

Does not apply

Memory requirements

This parameter does not impact on memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS21.

TOLL_OFFICE_DELAYED_BILLING

Parameter name

Toll Office Delayed Billing

Functional description

A switching unit with the Uniform Call Distribution (UCD) feature requires this parameter. This parameter satisfies operating company tariffs (AMA records).

The value of this parameter specifies when billing commences. The system causes an offhook condition to notify the switching unit where billing starts.

Rules in provisioning

When you set the value of this parameter to N (no), billing starts at the time the caller enters the queue.

When you set the value of this parameter to Y (yes), billing does not start until an idle agent answers the caller.

The system reports an offhook condition when an attendant console (AC) answers the call before the call extends to the UCD position. The system reports the offhook condition to the switching unit where billing takes place. This procedure starts billing despite the value of this parameter.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

TOLL_OFFICE_DELAYED_BILLING (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS19.

TOPS_THRESHOLD

Parameter name

Traffic Operator Position System Threshold

Functional description

The value of this parameter is the percentage of three-way conference trunks dedicated for Traffic Operator Position System (TOPS) operation.

This value does not include the three-way conference trunks that AOSS operations or Service Analysis use.

Rules in provisioning

Calculate the percentage of 3WC circuits that TOPS calls require for support over the engineering interval.

Refer to the three-port rules in provisioning in the *Provisioning Guide*, PLN-8991-104. Refer to these rules before you set the value of this parameter.

Range information

Minimum	Maximum	Default
0	100	0

Activation

Immediate

Dependencies

When you add the TOPS feature to a current switching unit, leave this parameter at the default value of 0 (zero).

The TOPS_THRESHOLD parameter can have a value greater than zero. Under these conditions, the addition of the TOPS feature can cause the system to route local calls to NOSC treatment. These local calls are calls that require a three-port conference trunk.

Consequences

The specified percentage of three-port conference trunks are for TOPS only. The percentage of three-port conference trunks that remain are available for all other uses, for example AOSS operations.

TOPS_THRESHOLD (end)

When TOPS_THRESHOLD is set to 100, only TOPS calls have access to the three-port conference trunks of the office. Other call processing applications that use three-port conference trunks cannot succeed.

A parameter value set too low can cause the system to place a TOPS call in a queue. This call is a call that requires a three-port conference trunk. The system places the call in the queue when three-port conference trunks are not available.

Do not change this parameter until all of the 3WC circuits are tested and the circuits work.

Verification

Does not apply

Memory requirements

Does not apply

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

TOTAL_ROUTE_QUEUED_CALLS

Parameter name

Total Route Queued Calls

Functional description

A switching unit with the World Systems and International Traffic Operator Position System (ITOPS) features requires this parameter. This parameter determines the number of call queue elements to allocate on restarts. These elements queue to the trunk group. This parameter prepares a pool of call queue elements for use by a route queued calls. This method saves on real-time processing for route queued calls.

The value of this parameter imposes limits on the number of route queued calls at any given time.

Rules in provisioning

The following equation that calculates the value of this parameter.

$$rqc = (\text{maxrte} \times \text{trkgrp})$$

where

rqc

limit of the number of route queued calls at any given time

maxrte

value of MAX_ROUTE_QUEUED_PER_TRKGRP in table

OFCENG

trkgrp

maximum number of trunk groups on which calls queue

Leave the value of this parameter at the default value of 0 to deactivate the feature.

TOTAL_ROUTE_QUEUED_CALLS (continued)

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Cold restart

Dependencies

This parameter relates to the parameter MAX_ROUTE_QUEUED_PER_TRKGRP in table OFCENG.

This parameter or parameter MAX_ROUTE_QUEUED_PER_TRKGRP in table OFCENG can decrease in a way that the system cannot queue a call. If this event occurs, the call remains in the database as untimed but not route queued.

For example, if route Z has 22 queued calls and the value of parameter MAX_ROUTE_QUEUED_PER_TRKGRP in table OFCENG decreases to 20, two calls cannot queue. The system cannot recall these calls to an operator. The user must retrieve the two calls manually.

The ITOPS Booked Call Database Size Increase feature in BCS30 affects this parameter. This feature increased the maximum number of calls that the ITOPS Booked Call database can store at the same time. The maximum number of calls that can be stored increases from 1280 to 5120. This feature increased the range of this parameter. An enforced upper limit is present on the parameter range. The upper limits can be set to values less than or equal to parameter DB_MAX_SIZE in table OFCENG.

Consequences

A parameter value set too high results in wasted memory.

A parameter value set too low causes there to be not enough resources. The system cannot process potential route queued calls because of not enough resources. The attempt by the ITOPS operator to store a route queued call fails. The header STORE flashes when this event occurs.

TOTAL_ROUTE_QUEUED_CALLS (end)

Verification

To verify that the parameter is set, examine table OFCENG. The value displayed indicates that the parameter is set. The restart can fail to allocate the required number of queue elements. If this event occurs this failure appears in the form of software errors (SWERRS) that occurred during the restart.

Memory requirements

Each call queue element requires 4 words of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS28.

TRANSIT_COUNTER_LIMIT

Parameter name

TRANSIT_COUNTER_LIMIT

Functional description

The TRANSIT_COUNTER_LIMIT office parameter determines the maximum number of intermediate switches a SETUP message can pass through. If the number of transits exceeds the parameter value, the call is rejected and a QSIG error log is generated.

Provisioning rules

The optimum value for this parameter is 5. A large value can unnecessarily generate network traffic, and a small value can reject valid calls.

Range information

Minimum	Maximum	Default
1	31	5

Activation

Immediate

Dependencies

None

Consequences

None

Verification

None

Memory requirements

This table requires one word of memory. There is no memory impact when changing the parameter.

Dump and restore rules

Not applicable

TRANSIT_COUNTER_LIMIT (end)

Parameter history

EUR008

This office parameter was introduced in EUR008.

TRBQ_EBS_LINE_AFTER_MISDIALS

Parameter name

Trouble Queue For Electronic Business Sets Line After Misdials

Functional description

This parameter provides the operating company with the ability to choose to diagnose or not diagnose electronic business sets (EBS) when misdials occur.

Before the implementation of this parameter, two or more misdials caused the system to put EBS lines in the trouble queue. The system put the EBS lines in the trouble queue for diagnostics. A misdial occurs when a number is not completed. When the EBS line is in the trouble queue, the operating company cannot use this set for 3 min.

Rules in provisioning

A parameter value of N (no) does not allow the system to place EBS lines in the trouble queue for diagnostics after misdials.

A parameter value of Y (yes) allows the system to place EBS lines in the trouble queue for diagnostics after misdials.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

TRBQ_EBS_LINE_AFTER_MISDIALS (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS32.

TRIGDIG_NUM_DGLTR_POOLS

Parameter name

Table TRIGDIG Number of Digilator Pools

Functional description

An office with the Advanced Intelligent Network (AIN) feature requires this parameter. This parameter specifies the number of allocated digilator pools for use by table TRIGDIG. Each digilator pool contains 32768 digit blocks that can contain the data of table TRIGDIG. The number of digit blocks that the table uses depends on the following information:

- the distribution of the digits in the table
- the number of DIGNAMEs in use

A worst-case estimate implies that one pool can contain a maximum of 4000 10-digit codes.

Use the DMSMON tool DBLOCKS to determine the number of blocks in use.

Rules in provisioning

Specify the number of allocated digilator pools for use by table TRIGDIG.

Range information

Minimum	Maximum	Default
1	12	1

Activation

Immediate

Dependencies

When the value of this parameter increases the maximum number of tables that can have data entered in table TRIGDIG increases.

Consequences

A parameter value set too low limits the number of tables that can be added to table TRIGDIG.

A parameter value set too high uses data store that is not necessary.

TRIGDIG_NUM_DGLTR_POOLS (end)

Verification

Use the DMSMON command DBLOCKS to verify that allocation of additional pools occurred.

Memory requirements

Each pool requires 22000 words of protected data store. Each additional unit allocated uses a digilator pool. Each office has 80 digilator pools. The value of parameter TRIGDIG_NUM_DGLTR_POOLS increases or decreases the number of available digilator pools for tables TRIGDIG and TRIGITM.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**NA009**

Increase the digilator pool resource to support the implementation of trigger items. Tables TRIGDIG and TRIGITM share the number of available digilator pools (AU2632).

BCS36

Parameter description added to NTP.

BCS35

This parameter was introduced in BCS35.

TRK_MEMSEL_AUDIT_TIME

Parameter name

Trunk MEM Selector Audit Time

Functional description

This parameter specifies the time when the system begins the audit of the internal MEM selector.

Rules in provisioning

Set the value of this parameter to the hour of the day at which the audit of the internal MEM selector begins. The 24-h clock has the default set at 0 (zero) to indicate a starting time of midnight.

Range information

Minimum	Maximum	Default
0	23	0

Activation

Immediate

Dependencies

The MEM selector is in field RTESEL in table OFRT and subtable RTEREF of tables HNPACONT, FNPACONT, and FNPASTS.

Consequences

Does not apply

Verification

Set the value of this parameter and verify that the audit of the internal MEM selector table occurs at the set time.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

TRK_MEMSEL_AUDIT_TIME (end)

Parameter history

This parameter was introduced in BCS32.

TYPE_OF_ACCS

Parameter name

Type of Automatic Calling Card Service

Functional description

This parameter specifies the type of Automatic Calling Card Service (ACCS) that a service switching point (SSP) uses.

Rules in provisioning

Set the value of this parameter to TCACCS to use the Stentor standard services database (SDB).

Set the value of this parameter to BCACCS to use the North American line information database (LIDB).

Set the value of this parameter to TAACCS_SCP1 for Australian Telecom offices with SCPI that use the SDB format.

Set the value of this parameter to TAACCS_SCP2 for Australian Telecom offices with SCPII that use the LIDB format. This setting allows the SSP transaction capability application part (TCAP) code to change from the Stentor/ Telecom Australia SCP queries to the Australian LIDB queries.

Range information

Minimum	Maximum	Default
		TCACCS (North America) TAACCS_SCP1 (International)

Activation

Before TOPS003, activation requires a warm restart. For TOPS003 and releases after this one, activation does not require a restart.

Dependencies

Does not apply

TYPE_OF_ACCS (end)

Consequences

As this parameter changes, a warning appears as follows:

You are changing the type of ACCS database that the switch expects to communicate with. Unless you are changing the database itself, you may cause ACCS queries to fail.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS34.

TYPE_OF_NETWORK

Parameter name

Type of Network

Functional description

This parameter specifies the voice law and data type within the network module of a switch. This parameter determines the voice and data conversions needed across the NT6X44EA timeswitch in XMS-based peripheral modules (XPM). The parameter identifies the voice law and data type on the C-side of the timeswitch.

Rules in provisioning

The values are as follows:

- INTERNATNL indicates an International switch with an A-law commanding network.
- ALAW indicates an International switch with an A-law network.
- NORTH_AMERICAN indicates a North American switch with a Mu-law network.

Specify the voice law and data type that the Network module of the switch requires. Only specify voice law and data type if the switch is not a North American switch.

Range information

Minimum	Maximum	Default
		NORTH_AMERICAN

Activation

Reload restart on the active CC.

Note that all XPMs have updated static data and NTX6X44EA reconfigured timeswitches.

Dependencies

Does not apply

TYPE_OF_NETWORK (end)

Consequences

If you specify the wrong network type, the voice and data conversions set up across the NT6X44EA timeswitch are not correct.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS27

This parameter was introduced in BCS27.

U3WC_ELAPSED_TIME

Parameter name

Usage Sensitive Three-Way Calling Elapsed Time

Functional description

This parameter specifies whether or not the elapsed time of the AMA record generated by the U3WC feature covers the consultation time. It also specifies the time for the field CONNECT_TIME of the AMA record (see Note 2 below).

The consultation time represents the amount of time required by the feature originator to reach a third party. The consultation time is calculated from the time a DN is entered to the time the feature originator flashes a second time to conference all call participants.

If this parameter is set to TOTAL_DURATION, the consultation time is included in the AMA record time for the call.

If this parameter is set to CONF_DURATION, then the consultation time is not included in the AMA record time for the call.

Note 1: When the feature originator does not conference all parties, and this parameter is set to CONF_DURATION, then the AMA record will have a value of zero.

Note 2: When this parameter is set to TOTAL_DURATION, the connect time is the time a three-way conference bridge is reserved. When this parameter is CONF_DURATION, the connect time is the time when the feature user flashes a second time to conference all call participants. If the feature user does not flash a second time to conference all call participants, then the connect time is the time a 3WC bridge is reserved.

Provisioning rules

Valid entries are TOTAL_DURATION and CONF_DURATION.

Range information

Minimum	Maximum	Default
		TOTAL_DURATION

U3WC_ELAPSED_TIME (end)

Activation

Immediate

Requirements

Not applicable

Results

Not applicable

Testing

To verify the setting of this parameter, enter the CI command `>table ofceng; pos u3wc_elapsed_time` and read the entry as follows:

U3WC_ELAPSED_TIME

CONF_DURATION

Memory requirements

This parameter requires one bit of storage.

Dump and restore rules

Copy the existing value of this parameter when doing a dump and restore.

Parameter history**NA004**

This parameter was introduced.

U3WC_FLASH_ONLY

Parameter name

Usage Sensitive Three-Way Calling Flash Only

Functional description

This parameter specifies which of the following applies:

- a switch-hook flash activates the U3WC feature
- the user must enter an access code after the switch-hook flash

Provisioning rules

If this parameter is set to Y, the U3WC feature requires a switch-hook flash.

If this parameter is set to N, the user must enter an access code to activate the feature. The user enters the access code in table IBNXLA.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Requirements

If this parameter is set to N, the user must enter the access code for the U3WC feature in table IBNXLA.

Results

Does not apply

TestingTo verify the parameter setting, enter the CI command `>table ofceng; pos u3wc_flash_only` and read the entry as follows:

```
U3WC_FLASH_ONLY      N
```

U3WC_FLASH_ONLY (end)

Memory requirements

This parameter requires 1 bit of storage.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

NA004

This parameter was introduced.

U3WC_POTS_ENABLED

Parameter name

Usage Sensitive Three-Way Calling POTS Enabled

Functional description

This parameter specifies if the U3WC feature is available to POTS lines.

Provisioning rules

If this parameter is set to Y, the U3WC feature is available to POTS and Residential Enhanced Services (RES) lines. If this parameter is set to N, the U3WC feature is not available to POTS lines. If the parameter is set to N, the U3WC is available to RES lines.

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Requirements

None

Results

When this parameter is set to Y, hookswitch activation for Calling Line Identification with Flash (CLF) does not work.

Testing

To verify the setting of this parameter, enter the following CI command:

```
>TABLE OFCENG; POS U3WC_POTS_ENABLED
```

and press the Enter key.

Read the following entry: U3WC_POTS_ENABLED Y.

Memory requirements

This parameter requires 1 bit of storage.

U3WC_POTS_ENABLED (end)

Dump and restore rules

Does not apply

Parameter history

NA005

This parameter was introduced in NA005. The Results section was revised in June, 1999 to clarify interaction with the CLF option.

UCFW_STAYS_ON_LINE

Parameter name

UCFW_STAYS_ON_LINE

Functional description

This parameter provides the operating company with the following options when the subscriber dials the Call Forwarding (CFW) deactivation code:

- keep the Universal Access to Call Forwarding (UCFW) option on the line and set the code to inactive
- remove the UCFW option from the line

This parameter allows the operating company to keep the UCFW option on the line in the inactive state. The UCFW is kept inactive during an image dump to support UCFW activation.

Rules in provisioning

Set the value of this parameter to Y to keep the UCFW option with an inactive state on the line.

Set the value of this parameter to N to remove the UCFW option from the line.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

To verify the value of the parameter check table OFCENG.

UCFW_STAYS_ON_LINE (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA006

This parameter was introduced in NA006.

UK_OP_DELAY

Parameter name

United Kingdom Outpulse Delay

Functional description

This parameter applies to UK based 3J trunks. This parameter provides a delay before the parameter receives a seizure acknowledgement from the far end before DP outpulsing can start. Trunks that use cardcode UK3JOG with a seize start signal require this parameter.

The parameter value is the delay in units of 10 ms. On expiration, the system assumes the far end is ready to receive digits. Outpulsing can start.

Rules in provisioning

Operating companies that receive outgoing circuits that use cardcode UK3JOG must specify a minimum acceptable delay from seizure acknowledgement. Take the maximum of these delays and add 300 ms. To convert to units of 10 ms, divide by 10.

The recommended value is the default value. This value is the minimum acceptable value and represents a delay of 300 ms to start outpulsing. Chose this value to minimize outpulsing delay. The operating company that owns the far end can designate the far end as not able to receive digits in 300 ms. In this event, increase the parameter to the value that the far end requires.

Range information

Minimum	Maximum	Default
30	80	30

Activation

The parameter must be loaded into the trunk data on the peripheral modules (PM) that support the trunks that use this parameter. The parameter must be loaded when one of the following occurs:

- the peripheral is busy (BSY) and returned to service (RTS)
- the trunks are BSY and RTSed

Do not use a warm SWACT as the old data is copied across. Only BSY and RTS the 3J trunks concerned.

UK_OP_DELAY (end)

Dependencies

Does not apply

Consequences

Too large a value for the parameter slows down the seizure and the start of outpulsing. Too large a value can increase the call setup time by the amount of the excess.

Too small a value can cause the loss of the first digit outpulsed. The operating company that receives the data is not always ready to receive the first digit. The DMS cannot detect that this problem causes a failed call. Complaints from the far end operating company about traffic from the DMS switch reveal this problem. Logging the number of unanswered calls on DMS 3J outgoing circuits or customer complaints also can reveal this problem. Verify the value as calculated above.

Verification

Take a 3J outgoing type 4 trunk with datafill to use cardcode UK3JOG. Under conditions of low traffic, record the ABCD signals for seizure and outpulsing on the 3J.

The system can measure the time delay from the time the parameter receives seizure acknowledgement. The time delay is approximately the time in units of 10 ms and exceeds this time by a small amount. The delay is never less than the office parameter indicates.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS30.

UNIQUE_BY_SITE_NUMBERING

Parameter name

Unique By Site Numbering

Functional description

A switching unit with a minimum of one remote peripherals requires this parameter. This parameter specifies if line module numbering is unique to a site or to the whole switching unit. The numbering is unique when the parameter value is Y (yes). When the numbering is not unique the parameter value is N (no).

A switching unit can have two remotes, four line modules in the host and two and three line modules in the remotes. If this example occurs, the following applies:

- If line module numbering is unique, the following conditions apply:
 - the line modules in the host have the numbers, 0, 1, 2 and 3
 - the line modules in the remote with two line modules have the numbers 0 and 1
 - the line modules in the remote with three line modules have the numbers 0, 1 and 2
- If line module numbering is not unique, the following conditions apply:
 - the line modules in the host have the numbers, 0, 1, 2 and 3
 - the line modules in the remote with two line modules have the numbers 4 and 5
 - the line modules in the remote with three line modules have the numbers 6, 7, and 8

Rule in provisioning

If the parameter value is Y, the line module numbering must be unique to a site. Module type does not have an effect on this example.

If the parameter value is N, the line module numbering must be unique to the whole switching unit.

UNIQUE_BY_SITE_NUMBERING (end)

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

UNIVERSAL_AMA_BILLING

Parameter name

Universal Automatic Message Accounting Billing

Functional description

This parameter indicates if the billing structures require open numbering schemes, where possible, in the BellCore format Automatic Message Accounting (AMA) subsystem. This parameter identifies offices that use open number dialing arrangements where North American billing does not work.

Rules in Provisioning

Set the value of this parameter to N (no) to allow base AMA billing the use of North American billing structures.

Set this parameter to Y (yes) to allow the use of open numbering AMA structures.

The value of this parameter can be based on the value of office parameter MARKET_OF_OFFICE. When the value of MARKET_OF_OFFICE is UK CENTREX or AUSTRALIA, set the value of UNIVERSAL_AMA_BILLING to Y.

This parameter defaults to N. Set to Y for those offices that want to receive Open Number BellCore Format AMA billing.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

UNIVERSAL_AMA_BILLING (end)

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS33.

USE_ZEROMPOS_FOR_CAMA

Parameter name

Use ZEROMPOS For Centralized Automatic Message Accounting

Functional description

This parameter provides alternate routing on calls that require operator assistance on local automatic message accounting (LAMA) type calls. These calls include operator assisted identification (ONI) line for toll calls, automatic number identification (ANI) failures and direct dial overseas (DDO) failures. When these types of calls occur, the system routes the call to a CAMA or TOPS operator through an outgoing trunk. This parameter controls the selection of the trunk.

The toll switching unit performs an ONI check based on NXX validity on the basis of incoming trunks.

This parameter allows the system to route these calls on different outgoing trunks based on the NXX of the calling line. To accomplish this task, the system routes a call by the position that the datafill of the calling line indicates. This datafill is in the ZEROMPOS field of table LINEATTR.

Rules in provisioning

When the value of this parameter is N (no), the system selects the route from the CAMA entry in the POSITION table.

When the value of this parameter is Y (yes), the system selects the route from table LINEATTR. The system selects the route from field ZEROMPOS of the line attribute of the originator in table LINEATTR.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

USE_ZEROMPOS_FOR_CAMA (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS19.

USP_ENABLED

Parameter name

Usage Sensitive Pricing Enabled

Functional description

This parameter provides the ability to activate and deactivate Call Forwarding Usage Sensitive Pricing (CFUSP) for each switching unit.

The CFUSP vertical feature allows single party Plain Ordinary Telephone Service (POTS) line in a Bellcore (BC) Automatic Message Accounting (AMA) office to activate. The POTS line in a BC AMA office can then use call forwarding. The subscriber does not have to subscribe or pay a monthly fee for service with this feature. A subscriber dials the access code 72# to activate call forwarding. The subscriber can use this feature at any time. Charges apply each time the subscriber uses the feature.

If the value of the parameter is set to Y (yes), a subscriber can use the feature. The subscriber must have single party POTS line in a BC format switching unit. The subscriber dials the access code 72# and receives the call forwarding option for one activation.

If a subscriber has a flat rate call forwarding and dials the access code 72#, the system activates the forwarding option. The system treats the option as a flat rate option.

The DMS System generates the necessary AMA records to correctly bill the subscriber.

Rules in provisioning

If the value of the parameter is set to N (no), the subscriber cannot use this feature. The subscriber cannot use this feature even if the subscriber has single party POTS lines in a BC format switching unit. The system does not deny the call forwarding option if the POTS line already has the call forwarding option.

If the value of the parameter is set to N (no), the system denies entry of a CFUSP option through SERVORD or table CFW. The operating company personnel receive the following message:

CALL FORWARDING-USP IS UNAVAILABLE.

If a subscriber tries to use CFUSP when the feature is disabled, that line goes to treatment. The operating company selects the treatment for denied lines.

USP_ENABLED (end)

An announcement that indicates that the subscriber cannot use that type of service can be provided.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

The package NTX045AA - Usage Sensitive Pricing includes this parameter.

This parameter requires the following features to function correctly:

- NTX020AA/NTX020AB - Vertical Services
- NTX020AC (Includes basic call forwarding for POTS lines.)
- NTX159AA - Bellcore LAMA

This feature creates a new line option CUSD. When CUSD is present on a line, the subscriber cannot use the CFUSP feature. The option CUSD is only available when the CFUSP feature is present.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS23.

VALIDATE_CCITT_LUHN_DIGIT

Parameter name

Validate CCITT Luhn Digit

Functional description

This parameter specifies if the system ignores the luhn check digit (LCD) in CCITT calling card validation for the International Traffic Operator Position System (ITOPS). A special market segment (China) uses this parameter.

Rules in provisioning

The LCD provides local screening of the calling card with a format check. The system marks a CCITT calling card number with an invalid LCD as defective.

Set this parameter to a value of N (no), if CCITT calling card number does not require an LCD. Format checking procedures ignore the luhn digit when this parameter is set to N.

If the CCITT calling card number requires an LCD, set the value to Y (yes).

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

VALIDATE_CCITT_LUHN_DIGIT (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

BCS34

This parameter was introduced in BCS34.

NA006

This parameter is no longer in use as of NA006.

VPN_PREFIX_DIGS

Parameter name

Virtual Private Network Prefix Digits

Functional description

This parameter allows the operating company to define a set of digits to be prefixed to ISDN User Part (ISUP) calls. The ISDN calls terminate in the nation network identified as Standard Virtual Private Network (SVPN) calls. The system identifies the calls as SVPN based on the OP bits of the forward call indications. These forward call indicators are part of the initial address message (IAM) that is set. Before translation, the system prefixes these digits to the received digits.

The CCITT recommendations do not include the use of OP bits of the forward call indicators of ISUP IAM to indicate that a call is a VPN call.

Rules in provisioning

This office parameter can hold a maximum of four digits. If digits are not to be prefixed, leave the office parameter at the default value of \$ (dollar sign). The dollar sign indicates that the optional prefix digits are not present.

Range information

Minimum	Maximum	Default
		\$ (no prefix digits)

Activation

Immediate

Dependencies

Does not apply

Consequences

The addition of the prefix digits to the dialed digits can exceed the maximum number of digits the DMS-300 allows. In this example, the call fails.

Verification

Does not apply

VPN_PREFIX_DIGS (end)

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS34.

VSN_SIMULATOR_ON

Parameter name

Voice Service Node Simulator On

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
		No

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

To verify that this parameter is set and works, attempt to gain access to the VSNSIM directory at the CI level of the MAP terminal. If you can gain access, the parameter works.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS32.

WAKEUP_REREQUEST_DELAY

Parameter name

Wakeup Rerequest Delay

Functional description

A local (international) switching unit with universal translations requires this parameter. This parameter specifies the length of time, in 1 minute intervals, before the system attempts a second wake-up call. The second attempt occurs after the system abandons the first attempt.

The wake-up call can be a casual feature that the operating company can provide to all subscribers. The establishment of office parameters, CASUAL_FEATURES_OFF in table OFCOPT to a value of Y (yes), leads to the following result. Wake-up calls (WUC) become a line option. You can assign this line option through service orders (SERVORD).

Rules in provisioning

This parameter allows the subscriber to program a time for the wake-up call announcement to ring back. If the subscriber does not answer the wake-up call, a second attempt occurs at a later time. The administration specifies time for the second call.

If the subscriber does not answer the second wake-up call, the system generates a log and does not make additional attempts.

If you do not require this feature, leave the value at the default of 5.

Range information

Minimum	Maximum	Default
5	10	5

Activation

Immediate

Dependencies

Each generated wake-up call requires one FTR control block and one FTR data block. This feature affects the value of parameters

WAKEUP_REREQUEST_DELAY (end)

NO_OF_FTR_CONTROL_BLKs and
NO_OF_SMALL_FTR_DATA_BLKs in table OFCENG.

Table FEATCHG requires entries for wake-up call charging. Table ACCODE requires entries for wake-up call subscriber control procedures.

The wake-up feature also requires parameter WAKEUP_RINGING_TMO.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

Does not apply

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS24.

WAKEUP_RINGING_TMO

Parameter name

Wakeup Ringing Timeout

Functional description

This parameter is required for a local switching unit (international) with universal translations and specifies the length of time, in 1 s intervals, that ringing is applied to a subscriber's line during a wake-up call attempt before being abandoned.

If this feature is not required, leave the value at the default.

The wake-up call is a casual feature provided to all subscribers. It allows the subscriber to program a time at which they are to be rung back by a wake-up call announcement. If a wake-up call is not answered, a second attempt is made at a later time (specified by the administration). If the second wake-up call is not answered, a log is generated and no further attempts are made.

Provisioning rules

If other than 60 s, enter the length of time, in 1 s intervals, that ringing is to be applied to a subscriber's line during a wake-up call attempt before being abandoned.

Range information

Minimum	Maximum	Default
60	120	60

Activation

Immediate

Dependencies

One FTR control and one FTR data block is required for each wakeup call being generated. Therefore, this feature affects the value of parameters NO_OF_FTR_CONTROL_BLKs and NO_OF_SMALL_FTR_DATA_BLKs in table OFCENG.

Table FEATCHG requires entries for wake-up call charging. Table CCODE requires entries for wake-up call subscriber control procedures.

WAKEUP_RINGING_TMO (end)

Parameter WAKEUP_REREQUEST_DELAY is also required for the wake-up feature.

The value of this parameter must always be less than the ringing timeout value for the office that is identified by the office parameter RNG_TMEOUT_NO_OF_SECS, except when RNG_TMEOUT_NO_OF_SECS has a value of '0'.

Consequences

Not applicable

Verification

Not applicable

Memory requirements

Not applicable

Dump and restore rules

This parameter was introduced in BCS24.

Copy the existing value of this parameter when doing a dump and restore.

WUCR_RINGING_TIMEOUT

Parameter name

WUCR Ringing Timeout

Functional description

This parameter specifies the length of time that physical ringing is applied to a subscriber's phone during a Wake-Up Call Reminder (WUCR).

Provisioning rules

The value of this parameter can be set between 12 s and 54 s.

The value of this parameter must always be less than the ringing timeout value for the office, which is identified by the office parameter `RNG_TMEOUT_NO_OF_SECS`. This restriction is enforced when changing the value of `WUCR_RINGING_TIMEOUT`, but if the value of `RNG_TMEOUT_NO_OF_SECS` is subsequently set lower, the ringing behavior of wake-up calls is unpredictable.

When determining the value of this parameter, it should be noted that a line concentrating device can ring only a limited number of lines simultaneously. Therefore, keeping the ringing time of a wake-up call to a minimum reduces the possibility of blocked ringing requests at the peripheral.

Range information**Activation**

Immediate

Dependencies

`WUCR_RINGING_TIMEOUT` must always have a value less than that of `RNG_TMEOUT_NO_OF_SECS`, except when `RNG_TMEOUT_NO_OF_SECS` has a value of '0'.

Consequences

Overprovisioning of this parameter results in the increased possibility of blocked ringing requests by the line concentrating module.

Verification

To verify that this parameter is operational, schedule a wake-up call and allow the call to go unanswered. Verify that the length of time of physical ringing is equal to the value of `WUCR_RINGING_TIMEOUT`.

WUCR_RINGING_TIMEOUT (end)

Memory requirements

This parameter requires 6 bits of memory for store.

Dump and restore rules

Copy the existing value of the parameter when doing a dump and restore.

Parameter history

BCS33

This parameter was introduced.

ZERO_MINUS_LOCAL_CARRIER

Parameter name

Zero Minus Local Carrier

Functional description

Use this parameter to determine if an LEC, an IEC, or the LPIC of the subscriber handles 0-local traffic.

Rules in provisioning

The following are the values for this parameter:

- C: This value denotes that a specified carrier handles 0-traffic.
- L: This value denotes that a specified LPIC of the subscriber handles 0-traffic.

The following are examples of the possible values used for this parameter:

- C Carrier: Designated carrier handles 0-traffic.
- C NILC: LEC handles 0-traffic. Use this value when the LEC handles all 0-traffic. This value is the default setting when identified with a designated carrier or the LPIC of the subscriber.
- L LPIC: The LPIC of the subscriber handles 0-traffic.

Range information

Minimum	Maximum	Default
		C NILC

Activation

Immediate

Dependencies

Enter Table OCCINFO to specify a carrier for the C value selector.

In order to use the parameter ZERO_MINUS_LOCAL_CARRIER, the OFCENG parameter ZERO_MINUS_LOCAL_CARRIER must be set to Yes.

Consequences

Does not apply

ZERO_MINUS_LOCAL_CARRIER (end)

Verification

Does not apply

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history

NA006

This parameter was introduced NA006.

ZERO_MINUS_TO_CARRIER

Parameter name

Zero Minus To Carrier

Functional description

This parameter determines whether 0- dialed calls are routed to the subscriber's chosen primary intra-LATA carrier (PIC) or to the local operating company for handling.

This parameter is for use with the LATA equal access system, equal access system, and integrated business network applications.

ZERO_MINUS_TO_CARRIER is supported but not datasynched in GSF031 release for GSF agents.

Provisioning rules

If the parameter is set to Y (yes), a lookup in table DNLPICT is done to determine if the calling subscriber has chosen a PIC. If an entry is found in table DNLPICT, the call is routed to the intra-LATA carrier for handling. Otherwise, it is routed to the local operating company.

Set the parameter to N (no) if all 0- traffic is to be routed to the operating company.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Not applicable

Consequences

Not applicable

ZERO_MINUS_TO_CARRIER (end)

Verification

This parameter can be verified by the monitoring of 0- call routing. If the parameter is set to N, all 0- calls route to the local operating company. If the parameter is set to Y, an IntraLATA PIC has been chosen, and that carrier can handle operator calls. The 0- calls route to the intra-LATA carrier for handling.

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the existing value of this parameter when doing a dump and restore.

Parameter history

GSF031

Added text stating that this parameter is supported but not datasynched in this release.

BCS29

This parameter was introduced.

ZERO_PLUS_LOCAL_CARRIER

Parameter name

Zero Plus Local Carrier

Functional description

Use this parameter to determine if a local exchange carrier (LEC), a interchange carrier (IEC) or a Intra-LATA PIC (LPIC) of a subscriber handles 0+ local traffic.

Rules in provisioning

The following are the values for this parameter:

- C: This value denotes the specifications that a carrier must specify to handle 0+ traffic.
- L: This value denotes the LPIC of the subscriber specification to handle 0+ traffic.

The following are examples of the possible values used for this parameter:

- C Carrier: A designated carrier handles 0+ traffic.
- C NILC: The LEC handles 0+ traffic. With this value the LEC handles all 0+ traffic, unless identified with a designated carrier or the LPIC of the subscriber. This is the default setting.
- L LPIC: The LPIC of the subscriber handles 0+ traffic.

Range information

Minimum	Maximum	Default
		C NILC

Activation

Immediate

Dependencies

Enter datafill in Table OCCINFO to specify a carrier for the C value selector.

Consequences

Does not apply

ZERO_PLUS_LOCAL_CARRIER (end)

Verification

Does not apply

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history

NA006

This parameter was introduced in NA006.

ZONE_OF_ORIGIN

Parameter name

Zone Of Origin

Functional description

The parameter specifies the zone of origin of the switch. The parameter specifies with an initial address message (IAM) with additional information (IAI) or a calling party information (CPI) message.

The range of this office parameter is 0 to 225. The Australian market uses this range in the billing process.

Rules in provisioning

Specify the zone of origin of the office.

Range information

Minimum	Maximum	Default
0	255	0

Activation

Immediate

Dependencies

Does not apply

Consequences

Use this field in the billing process. A wrong value can lead to an error in the billing.

Verification

Verify that the zone of origin field in IAI and CPI messages correspond.

Memory requirements

This parameter does not impact memory.

ZONE_OF_ORIGIN (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS31.

2 OFCOPT parameters

This chapter describes the parameters in table office options (OFCOPT).

ACD_LOAD_MGMT_RESTRICTIONS

Parameter name

Automatic Call Distribution (ACD) Load Management Restrictions

Functional description

This office parameter restricts three LOADMGMT commands for the ACDSHOW command. When you set this parameter to Y (yes), the LOADMGMT does not support the following commands:

- CHANGE AUDIO
- CHANGE NSROUTE
- CHANGE THROUTE

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

If the user changes the parameter values, a restart is not required. The user sets the parameter to the default value when the feature is not activated.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Attempt to use the CHANGE AUDIO, CHANGE THROUTE, and CHANGE NSROUTE commands. The system responds with the message Command NOT supported when you set this parameter to yes.

ACD_LOAD_MGMT_RESTRICTIONS (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA005

This parameter introduced in NA005.

ACOU_DATAFILLED

Parameter name

Additional Call Offering Unrestricted Datafilled

Functional description

This parameter facilitates the implementation of the reformatting algorithm. Dump and restore procedures use this algorithm for the additional-call offering unrestricted (ACOU) tuple of Table KSETFEAT. Northern Telecom maintains this parameter internally. This parameter is a read-only parameter to operating companies, with the exception of during a dump and restore.

Rules in provisioning

The original value of this parameter is N Y (no yes). The value changes automatically to Y Y (yes yes) after a dump and restore of table OFCOPT. This event occurs when the dump side has software package NTX755AB/AC which is Support of Notification Busy Limit Parameter. The value Y Y indicates that reformatting table KSETFEAT is not required.

When the dump side does not have the NTX755AB/AC feature, the office parameter value remains N Y after a dump and restore. When this event occurs, reformatting of table KSETFEAT is enabled.

Range information

Minimum	Maximum	Default
		NY

Activation

Immediate

Dependencies

Does not apply

Consequences

When the user does not set the parameter correctly, reformatting the ACOU tuples in table KSETFEAT occurs when reformatting must not occur.

Verification

Does not apply

ACOU_DATAFILLED (end)

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

When the value of this office parameter is N Y on the dump side, set the parameter to Y Y.

Parameter history

This parameter was introduced in BCS33.

ADSI_RAM_BASED_TONE

Parameter name

Analog Display Services Interface RAM Based Tone

Functional description

An Analog Display-Services Interface (ADSI) call requires this parameter when there is no hardware available to support the ADSI tone. The hardware is NT6X69LB - Message Protocol and Downloadable Tones circuit pack.

Rules in provisioning

When the NT6X69LB circuit pack is present, set the value of this parameter to Y (yes). Value Y allows the system to send the -13dB ADSI tone to a SESAME terminal.

When the NT6X69LB circuit pack is not present, set the value of this parameter to N (no). Value N allows the system to send a dual tone multi-frequency (DTMF) A tone at -7 dB to the SESAME terminal.

When the NT6X69LB circuit pack is not present, and you change this parameter to Y, the following message appears at the MAP display:

RAM TONES NOT AVAILABLE

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

ADSI_RAM_BASED_TONE (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS35.

AMA_EBCDIC_CONVERT_ENABLE

Parameter name

Automatic Message Accounting Extended Binary Decimal Interchange Code Convert Enable

Functional description

This parameter specifies if the office parameter AMA_EBCDIC_CONVERT in table OFCENG appears in the office.

Parameter AMA_EBCDIC_CONVERT specifies if you must convert Northern Telecom (NT) format Automatic Message Accounting (AMA) messages to Extended Binary Decimal Interchange Code (EBCDIC).

This parameter applies to offices that use NT format AMA. This parameter does not affect the BellCore format AMA stream.

The NT format AMA includes Station Message-Detail Recording (SMDR).

Rules in provisioning

Set the value of this parameter to Y (yes) to enable office parameter AMA_EBCDIC_CONVERT in Table OFCENG for NT format AMA.

Leave the value of this parameter at the default of N (no) when office parameter AMA_EBCDIC_CONVERT is not required.

Range information

Minimum	Maximum	Default
		N

Activation

The activation of this parameter occurs after a reload restart.

Dependencies

This parameter allows the use of parameter AMA_EBCDIC_CONVERT in table OFCENG for NT format AMA.

AMA_EBCDIC_CONVERT_ENABLE (end)

Consequences

When this parameter is set to N, parameter AMA_EBCDIC_CONVERT in table OFCENG cannot be enabled.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**CSP03**

The parameter is made obsolete with no replacement because of changes to office parameter AMA_EBCDIC_CONVERT.

CSP02

The activation statement was corrected in CSP02.

BCS36

This parameter description was added in BCS36.

AMREP_ACTIVE

Parameter name

Maintenance Manager's Morning Report Active

Functional description

This parameter specifies if the Maintenance Manager's Morning Report feature is active or inactive.

The Maintenance Manager's Morning Report provides operating company management with a status report of DMS switching unit performance.

The report specifies areas that do not operate normally. The report also prompts corrective maintenance activities.

The report is available to the operating company as an operational measurement (OM) report. This report uses current OM capability that allows the system to generate the report automatically every 24 h.

The Maintenance Manager's Morning Report uses AMREPORT, a report name in the OM report system.

The report is available as an OMRS log. The operating company schedules the system to generate the report automatically every 24 h at a time the operating company specifies.

The system can generate this report on request with current OMREPORT capability. This capability is command REQUEST in the OMREPORT environment.

When this feature is not entered in table OMREPORT for scheduling purposes, the system does not generate a report.

The operating company must not schedule this report for automatic generation between 23:40 and 00:15. The system uses this period for the preparation of data and the system cannot generate reports.

The accumulated data in the report is not always accurate when a clock change occurs. The accumulated data is not always accurate when the system restarts.

Rules in provisioning

To activate the Maintenance Manager's Morning Report feature, set the value of this parameter to Y (yes).

AMREP_ACTIVE (end)

Leave the value of this parameter at the default of N (no) when this feature is not required.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

This feature requires the Switch-Performance Monitoring System (SPMS), DMSMON and OM features.

Consequences

Does not apply

Verification

To verify that this parameter is operating, set the value to Y (yes). The system generates a report. When the option does not function, all fields in the report contain zeroes.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS28**

This parameter was introduced in BCS28.

AQ_CLD_NUM_ON_NC

Parameter name

Autoquote Called Number On No Charge

Functional description

This parameter controls the output of the called number at the Autoquote TTY of a Hotel on no charge hotel calls. This parameter appears only in DMS TOPS offices.

Rules in provisioning

Set the parameter value to Y(yes) when the CALLED number on a no charge call can be output at an Autoquote TTY.

Leave the value of this parameter at the default of N (no) when this function is not required.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

AQ_CLD_NUM_ON_NC (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS29.

AR_PRIV_LESS_THAN_10_DIGITS

Parameter name

Automatic Recall Private Less Than Ten Digits

Functional description

This parameter controls Automatic Recall (AR) functionality on private network calls that have a maximum of nine digits.

Rules in provisioning

This parameter turns the AR functionality ON or OFF for directory numbers (DN) that have a maximum of nine digits. When the parameter is set to Y, AR works with the DNs that have a maximum of nine digits. When the parameter is set to N, AR works only with ten-digit DNs.

This parameter is on a terminating switch. The user can change this parameter for each switch.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

When the parameter value is Y, the AR part of the REVXLER tool also works with the DNs with maximum nine digits.

Verification

When the value of this parameter is Y, AR can work with the private network calls that have a maximum of nine digits. If the value of this parameter is N, the additional AR capability remains inactive.

Memory requirements

This parameter does not impact memory.

AR_PRIV_LESS_THAN_10_DIGITS (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

CSP006

This parameter was introduced in CSP006.

AUD_AUTH_ALLOWED

Parameter name

AUD_AUTH_ALLOWED

Functional description

Office parameter AUD_AUTH_ALLOWED in table OFCOPT controls the AF7525, Sourcing Patch JDS54 feature functionality on a switch-wide basis.

If the user sets the parameter value to N (No), the following occurs:

- The functionality is not available.
- The feature processing environment (FPE) or applies the nonacknowledge treatment to indicate this.

If the user sets the parameter value to Y(Yes), the following occurs:

- The feature is available on a switch-wide basis.
- If a call is in the following state:
 - over an IBNTI or IBNT2 type of trunk, which is not an ISUP trunk.
 - in the generating ringing or busy tone (Termtone) state. This is when the call is over the non-ISUP IBN or IBN trunk while getting a second dial tone.

Then this parameter gives a second dial tone to indicate the Termtone state. The Automatic Dial (AUD) key sends the authorization code (AUTHCODE).

Provisioning rules

Not applicable.

Range information

Minimum	Maximum	Default
Y	N	N

Activation

Immediate

Dependencies

Not applicable.

AUD_AUTH_ALLOWED (end)

Consequences

Not applicable.

Verification

Not applicable.

Memory requirements

This parameter has no memory impact.

Dump and restore rules

Copy the existing value of this parameter when doing a dump and restore.

Parameter history

NA010

Feature AF7525, Sourcing Patch JDS54, introduced this parameter.

CALL_TRF

Parameter name

Call Transfer

Functional description

This parameter enables the CALLTRF command.

The CALLTRF is a trunk test position (TTP) MAP level command. This command allows the call transfer capability to enable maintenance functions and voice on T101 calls.

Rules in Provisioning

To make the CALLTRF command available to the user, set the value of this parameter to Y (yes) .

Set the value of this parameter to N (no) to disable the CALLTRF command.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

To change the parameter value, leave the TTP level and activate a new TTP session.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

CSP02

Restart activation requirement is removed in CSP02.

CASUAL_FEATURES_OFF

Parameter name

Casual Features Off

Functional description

This parameter assigns the Do Not Disturb (IDND) and Wake-Up Call (WUC) features as line options. The Do Not Disturb (IDND) and Wake-Up Call (WUC) features are available on all lines. The user can add or delete these features as line options through SERVORD.

Rules in provisioning

Set this parameter to Y(yes) to assign IDND and WUC as line options.

Set this parameter to N (no) if IDND and WUC are available on all lines.

Range information

Minimum	Maximum	Default
		N

Activation

Warm restart

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

CCS7_H0H1_RCP

Parameter name

CCS7 H0H1 Routeset Cluster Prohibited

Functional description

Switching units with Common Channel Signaling 7 (CCS7) require this parameter. This parameter aligns the ANSI specification of CCS7 with the Consultative Committee on International Telephony and Telegraphy (CCITT). The value of the H1H0 code for the routeset cluster prohibited (RCP) message changes from 37 (hex 25) to 53 (hex 35).

In order to facilitate network use of these standards, networks in service can use this option to perform a network-wide cutover to the new value.

Rules in provisioning

Northern Telecom recommends that this parameter remain the same on all SSPs, STPs, and SCPs in the network. Service degradation can occur in an STP network if the messaging protocol between network parts is not the same.

For offices to conform to CCITT specifications, the value of this parameter must be 53.

Range information

Minimum	Maximum	Default
		53 (hex 35)

Note: The default value is the H0H1 code for an RCP message that in-service CCS7 networks use.

Activation

Immediate

Dependencies

Does not apply.

Consequences

Does not apply

CCS7_H0H1_RCP (end)

Verification

Does not apply.

Memory requirements

This parameter does not impact memory

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS26

This parameter was introduced in BCS26.

CCTO_COMB_BILL

Parameter name

Call Completion with Trunk Optimization (CCTO) Combined Billing

Functional description

This parameter indicates if operating company personnel can combine billing records in an office where the following conditions exist:

- CCTO requests are processed.
- Billing is required.

When operating company personnel set the parameter to Y, the system generates a single combined billing record for both parties of the CCTO call. When operating company personnel sets the parameter to N, each party of the CCTO call receives a separate billing record.

Provisioning rules

None

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

Does not apply

CCTO_COMB_BILL (end)

Dump and restore rules

Does not apply

Parameter history

BCS33

RLT with No Third Party Interaction (AG2329) introduced this parameter in BCS33.

CCTO_COMB_BILL-CANADA ONLY

Parameter name

Call Completion with Trunk Optimization Combined Billing

Functional description

This parameter indicates if the system groups billing records. This event occurs in an office where the system processes Call Completion with Trunk Optimization (CCTO) feature requests and billing is required.

Rules in provisioning

Set the value of this parameter to Y (yes). A Y value enables the system to group billing records. This event occurs in an office where the system processes CCTO feature requests and billing is required.

Leave the value of this parameter at the default of N (no) if you do not require this functionality.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

Each unit requires 1 word of memory.

CCTO_COMB_BILL-CANADA ONLY (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS33.

CCW_ACTIVE**Parameter name**

Cancel Call Waiting Active

Functional description

Local switching units with the Enhanced Call Waiting feature require this parameter. This parameter indicates if the Cancel Call Waiting (CCW) feature is active. In BCS30 and later versions, residential enhanced services (RES) lines have flash timing assigned when the lines require flash timing only. For example, a line with features or options activated by flash require flash timing. When a RES line does not require flash privileges, the system uses disconnect timing without flash. This feature allows the system to read an on-hook duration greater than 200 ms as a disconnect, not as a flash.

In BCS30, this functionality extends to current office-wide CCW in both the plain old telephone service (POTS) and RES environments.

Disconnect timing for POTS lines (BCS30 and later versions)

Parameters/line type and attributes	Status	
CCW_ACTIVE	Yes	Any other mix of values.
LINE_WITH_CWT_CAN_FLASH	Yes	Any other mix of values.
POTS line, no flash options/features and no CWT	200 ms (not flash) timing	200 ms (not flash) timing
POTS line, no flash options/features but has CWT; CCW_AS_LINE_OPTION = Y but line does not have CCW option	200 ms (not flash) timing, but gets flash timing after CWT tone	200 ms (not flash) timing. Flash timing after CWT tone
POTS line, no flash options/features but has CWT; CCW_AS_LINE_OPTION = N or line has CCW option	flash timing	200 ms (not flash) timing. Flash timing after CWT tone

Disconnect timing for RES lines (BCS30 and up) (Sheet 1 of 2)

Parameters/line type and attributes	Status	
CCW_ACTIVE	Yes	Any other mix of values.
LINE_WITH_CWT_CAN_FLASH	Yes	Any other mix of values.
RES line, no flash options/features and no CWT; CCW_AS_LINE_OPTION = Y but line does not have CCW option	200 ms (not flash) timing	200 ms (not flash) timing

CCW_ACTIVE (continued)

Disconnect timing for RES lines (BCS30 and up) (Sheet 2 of 2)

Parameters/line type and attributes	Status	
RES line, no flash options/features and no CWT; CCW_AS_LINE_OPTION = N or line has CCW option	flash timing	200 ms (not flash) timing
RES line, no flash options/features but has CWT; CCW_AS_LINE_OPTION = Y but line does not have CCW option	200 ms (not flash) timing, but gets flash timing after CWT tone	200 ms (not flash) timing. Flash timing after CWT tone
RES line, no flash options/features but has CWT; CCW_AS_LINE_OPTION = N or line has CCW option	flash timing	Gets 200 ms (not flash) timing. Flash timing after CWT tone

Lines that can activate the CCW feature but do not have other flash features or options can receive flash timing. These lines receive flash timing when this parameter is Y (yes).

If this parameter is Y, these lines can activate the Cancel Call Waiting (CCW) feature. To activate this feature, the user flashes and dials the CCW access code. The user performs this action in the talking stage of a call. If this parameter is Y the user can activate CCW before a call.

Rules in provisioning

This parameter, set to N (no) or Y (yes), affects a POTS or IBN line with call waiting. With the parameter set to N, this line is not allowed to cancel call waiting.

If you set the parameter to Y, the system allows the type of line mentioned to cancel call waiting. Call waiting stays canceled for the duration of the call. To cancel call waiting dial the access codes 70#, 1170, 70 or *70.

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Use this parameter in conjunction with parameters CCW_AS_LINE_OPTION and LINE_WITH_CWT_CAN_FLASH.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you do a dump and restore.

Parameter history**CSP02**

The warm restart or NORESTARTSWACT activation requirements were removed in CSP02.

BCS36

The NORESTARTSWACT activation was added in BCS36.

CKT_LOC

Parameter name

Circuit Locate

Functional description

This parameter specifies if the trunk test positions have the Circuit Locate feature.

Set this parameter to Y (yes) for switching units with the Circuit Locate feature. Leave this parameter at the default value N (no) for switching units that do not have the Circuit Locate feature.

Rules in provisioning

Set the value of this parameter to Y (yes) for switching units with the Maintenance Assistance software.

Leave this parameter value at the default value N (no) for switching units that do not have the Maintenance Assistance software.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

CSP02

Warm restart activation requirement was removed in CSP02.

CM_PROCESSOR_OPTION

Parameter name

Computing Module Processor Option

Functional description

This parameter controls processor optionality on the computing module. Each value of this parameter relates to a set of acceptable CPU and memory circuit packs.

Rules in provisioning

Northern Telecom personnel must enter the value of this parameter. This value is based on the CPU and memory hardware installed in the switch. The Northern Telecom personnel must change the value when the processor is upgraded.

The possible values for this parameter are as follows:

- SN20 (SuperNode series 20)
- SN30 (SuperNode series 30)
- SN40 (SuperNode series 40)
- SN50 (SuperNode series 50)
- SN50MX (SuperNode series 50MX)
- SN60 (SuperNode series 60)
- SN70 (SuperNode series 70)
- SNSE20 (SuperNode SE series 20)
- SNSE60 (SuperNode SE series 60)
- SNSE70 (SuperNode SE series 70)

Range information

Minimum	Maximum	Default
		SN20 (for 68K platform)
		SN50 (for 88K BRISC platform)

CM_PROCESSOR_OPTION (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

When the processor and memory hardware do not match the entered value, the CM cannot achieve CPU synchronization. The system generates log report CM165 and raises a major alarm PrcOpt.

Verification

When the user changes the value of the parameter, the system verifies the new value against the hardware installed in the switch. When a mismatch occurs, the system generates a message to inform the user. When the new value of the parameter is lower than the current HW configuration, the system does not allow the change.

Memory requirements

The value of this parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**CSP04**

The SN50MX, SN70 and SNSE70 were added to provisioning rules in CSP04.

CSP02

This parameter was introduced in CSP02.

CND_PRIV_LESS_THAN_10_DIGITS

Parameter name

Calling Number Delivery Private Less Than 10 Digits

Functional description

This parameter controls Calling Number Delivery (CND) functionality on private network calls that have a maximum of nine digits.

Rules in provisioning

This parameter turns the CND functionality ON or OFF for directory numbers (DN) that have a maximum of nine digits. When you set the parameter to Y, CND works with the DNs that have a maximum of nine digits. When you set the parameter to N, CND works only with 10-digit DNs.

This parameter is on a terminating switch. The user can change the parameter for each switch.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

When this parameter value is Y, the CND part of the REVXLVER tool also works with the DNs with maximum nine digits.

Verification

When the value of this parameter is Y, CND can work with the private network calls that have a maximum of nine digits. If the value of this parameter is N, the additional CND capability remains inactive.

Memory requirements

This parameter does not impact memory.

CND_PRIV_LESS_THAN_10_DIGITS (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

CSP006

This parameter was introduced in CSP006.

DELIVER_NUMBER_TO_SMDI_ON_3WC

Parameter name

Deliver number to SMDI on 3WC.

Functional description

This parameter retires patch JLZ52. This parameter controls the delivery directory number (DN) of the controller on direct calls to the Simplified Message-Desk Interface (SMDI) link. This event occurs when Three-way Calling (3WC) is active. When this parameter is set to Y (yes), the system delivers the DN of the controller to the SMDI on direct 3WC calls. The system delivers the controller DN to the SMDI on direct 3WC call. When this parameter is set to N (no), the system does not deliver the DN of the controller.

Rules in provisioning

The default value is N. When patch JLZ52 is applied and active on the DUMP side, set the value to Y. A value of Y prevents the removal of the SMDI functionality patch JLZ52 provides during a one night process (ONP).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

When this parameter is set to N, current functionality does not change. The DN of the controller is not delivered on direct calls to the SMDI when 3WC is active. When this parameter is set to Y, the DN of the controller is delivered.

Memory requirements

This parameter does not impact memory.

DELIVER_NUMBER_TO_SMDI_ON_3WC (end)

Dump and restore rules

Does not apply

Parameter history

NA007

This parameter was introduced in NA007.

DIS_LKD_CKT

Parameter name

Display Linked Circuit

Functional description

This parameter specifies if trunk test positions (TTP) have the Display Linked Circuit feature.

Rules in provisioning

Set the value of this parameter to Y (yes) for switching units with the Trunk Test Position or the International Trunk Test Position software.

Leave the value of this parameter at the default N (no) for switching units without the Trunk Test Position software.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

DSR_OFFICE

Parameter name

Distinctive Ringing Office

Functional description

This parameter specifies if the switching unit has distinctive ringing. Customer groups with distinctive ringing that have the ring again or call back queuing features require this parameter.

Coded ringing code 4 notifies Integrated Business Network (IBN) stations with the ring again or call back queuing features. The coded ringing code notifies IBNs when the BN request is served. This component is part of the queuing feature package and is not an option.

Calls that terminating on an IBN station can have distinctive ringing if the customer purchases the feature. Distinctive ringing is active, after entry of the feature. Ringing codes 1 through 5 specify distinctive ringing. The code for default ringing is ringing code 1.

The customer specifies a list of call types to receive distinctive ringing. The system checks the call type against the list of specified call types when the conditions that follow occur:

- a call terminates on an IBN station
- distinctive ringing is a valid option

If the call type is not on the list, the subscriber hears the coded ringing code 1. If the call is on the list, the subscriber hears ringing code 1 through 5.

Ringling code 5 generates Ring Code 5 when option RNGDATA in table LMRNG and LCMINV contains C (coded ringing) as datafill. Ringling code 5 for coded generates Ring Code 5 on normal telephones and IBN Business Sets.

Coded special ringing (CSR) entry in the RNGDATA option in tables LMRNG and LCMINV makes Ring code 5 have four short bursts.

This feature requires the BCRC firmware. The BCRC firmware contains more codes than the U.S. Bell Ringing Cycle firmware.

Customers can specify the ringing code for each of the following call types:

- intragroup
- intergroup

DSR_OFFICE (continued)

- IBN trunk calls owned by the customer
- group intercom (GIC)
- all other IBN lines and trunks

The following table shows the cadence assigned to the ringing code 1 through 5.

Ringing code cadence

Ringing code	Cadence
1	2.0 sec ON, 4.0 sec OFF
2	1.5 sec ON, 0.5 sec OFF, 1.5 sec ON, 2.5 sec OFF
3	1.5 sec ON, 0.5 sec OFF, 0.5 sec ON, 3.5 sec OFF
4	1.5 sec ON, 0.5 sec OFF, 0.5 sec ON, 0.5 sec OFF, 0.5 sec ON, 2.5 sec OFF
5	1.5 sec ON, 0.5 sec OFF, 0.5 sec ON, 0.5 sec OFF, 1.0 sec ON, 2.0 sec OFF

Each ringing cycle repeats.

Distinctive ringing does not affect the audible call tone heard by the calling party.

Rules in provisioning

The switching unit can have one or more IBN customer groups with this feature. If the switching unit has an IBN customer group with this feature, set the value of this parameter to Y (yes).

If this feature is not required, leave the value at the default of N (no).

Range information

Minimum	Maximum	Default
		N

DSR_OFFICE (end)

Activation

When this option changes from Y to N, activation is immediate. When this option changes from N to Y, add option DRING to the customer group. Activation is immediate when a change to the option occurs.

Dependencies

Each customer group with this feature must have the DRING option assigned in table CUSTSTN.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

EA_LATANAME_IN_SERVORD

Parameter name

Equal Access Local Access Transport Area Name In Service Orders

Functional description

This parameter is used to determine whether the local access transport area name (LATANAME) is prompted for by the Service Order (SERVORD) system when adding new lines.

Provisioning rules

This parameter should always be set to the value of Y (yes) in an equal access end office.

In all other types of switching units this parameter should always be left at the default value of N (no).

Range information

Minimum	Maximum	Default
		N

Activation

The value of this parameter can only be changed by Nortel at the time of an extension.

Dependencies

The LATANAMES for a switching unit are datafilled in table LATANAME.

Consequences

Not applicable

Verification

Not applicable

Memory requirements

This parameter has no memory impact.

EA_LATANAME_IN_SERVORD (end)

Dump and restore rules

Copy the existing value of this parameter when doing a dump and restore.

EADAS_SHORT_XFER_ALLOWED-U.S.only

Parameter name

Engineering and Administrative Data Acquisition System Short Transfer Allowed

Functional description

A switching unit with the Engineering and Administrative Data Acquisition System (EADAS) feature requires this parameter.

The transfer period for the transfer of traffic data for the EADAS feature must be 30 min.

This parameter allows the EADAS feature to coexist with an operational measurement (OM) period of less than 30 min.

Rules in provisioning

If the user sets this parameter to Y (yes), set parameter OMXFR in table OFCENG to 15 or 30 minutes.

If the user sets this parameter to N (no), set parameter OMXFR in table OFCENG to 30 minutes.

If the user sets this option to N, set parameter OMHISTORYON in table OFCOPT to N.

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

EADAS_SHORT_XFER_ALLOWED-U.S.only (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

This parameter was introduced in BCS19.

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**CSP02**

All restart activation requirements were removed in CSP02.

BCS36

The NORESTARTSWACT activation was introduced in BCS36.

ENET_AVAILABLE

Parameter name

Enhanced Network Available

Functional description

The ENET_AVAILABLE parameter enables the enhanced network (ENET) software to handle entries and maintenance. The ENET software must be enabled before ENET can handle call processing. The ENET software cannot be disabled while ENET is the active network.

Rules in provisioning

This parameter allows or does not allow the user to enter data in tables ENINV and ENCDINV. This parameter allows or does not allow the user to enter the ENET MAP level.

Set this parameter to Y (yes) before you enter data in ENET or you enter the ENET MAP level.

The user only can set this parameter to N (no) if parameter NETWORK_ACTIVE in table OFCOPT is set to junctored network (JNET).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Refer to the description of OFCOPT parameter NETWORK_ACTIVE.

Consequences

If the value of this parameter is set to N when NETWORK_ACTIVE is set to ENET, the system rejects the tuple. The following error message is at the MAP:

```
ERROR : Active network cannot have disabled SW.
```

ENET_AVAILABLE (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

If this parameter is set to N, the inactive central processing unit (CPU) cannot restore tables ENINV and ENCDINV.

Parameter history**BCS31**

This parameter was introduced in BCS31.

ENET_MAX_CHANNEL_GROUP

Parameter name

Enhanced Network Maximum Channel Groups

Functional description

The ENET_MAX_CHANNEL_GROUP parameter is required for a switching unit equipped with the enhanced network (ENET).

This parameter specifies the maximum number of channel groups available on a switch equipped with ENET. A channel group is a set of 32 channels, duplicated on both planes of the network. This parameter limits the number of channel groups available at the time peripheral modules (PM) are entered on the ENET.

Rules in provisioning

The value of this parameter is the number of channel groups that the operating company purchases. Use the following information to calculate the number of channel groups:

- A PM uses one channel group for each duplicated central side (C-side) link to the ENET.
- An XMS-based Peripheral Module (XPM) uses one channel group for each duplicated DS-30 C-side link to the ENET. An XPM can use a maximum of 16 channel groups.
- A fiber XPM (FXPM) uses one channel group for each DS-30 equivalent C-side link to the ENET. An FXPM uses a maximum of 16 channel groups.
- A series I PM can have a maximum of 4 duplicated C-side links to the ENET. The C-side links include digital carrier modules (DCM) and line modules (LM).

Range information

Minimum	Maximum	Default
0	3,840	0

Activation

Immediate

ENET_MAX_CHANNEL_GROUP (end)

Dependencies

At extension time, the value of this parameter must change if the number of C-side links increase.

Consequences

There are no results, if the ENET_MAX_CHANNEL_GROUP parameter is overprovisioned. If this parameter is underprovisioned, not all of the PMs data can be entered.

Verification

Does not apply

Memory requirements

This parameter requires 1 word of protected data store.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS31**

This parameter was introduced in BCS31.

ENHANCED_COMMAND_SCREENING

Parameter name

Enhanced Command Screening

Functional description

The ENHANCED_COMMAND_SCREENING parameter has an associated feature. This feature allows commands to be assigned to part of a set of 31 classes. Command screening makes sure the command classes of a user have a non-empty intersection. The command classes of the user must interact with the commands that apply.

Rules in provisioning

When the switching unit has the feature package NTX292AB (Enhanced-Security with Password Encryption), set this parameter value to Y (yes).

When the switching unit does not have the feature package NTX292AB, leave the value of this parameter at the default N (no).

Range information

Minimum	Maximum	Default
		N

Activation

A change in the value of this parameter from N to Y requires a restart. When activation occurs, this parameter cannot be changed back to the original value.

Dependencies

If the operating company purchases feature package NTX292AB during an extension, set this option to Y.

Consequences

Does not apply

Verification

Does not apply

ENHANCED_COMMAND_SCREENING (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

ENHANCED_PASSWORD_CONTROL

Parameter name

Enhanced Password Control

Functional description

This parameter enables or disables all automatic login features.

Provisioning rules

If the switch has the Enhanced Password Control feature, set this parameter value to Y (yes).

If the switch does not have the Enhanced Password Control feature, leave the value of this parameter at the default of N (no).

Range information

Minimum	Maximum	Default
		N

Activation

New load

Dependencies

If at the time of an extension the operating company purchases the Enhanced Password Control feature, change the value of this option from N to Y.

If this parameter value is set to Y, the parameters EXPIRED_PASSWORD_GRACE, MIN_PASSWORD_LENGTH, and PASSWORD_LIFETIME are created in table OFCENG.

Consequences

Once the value is set to Y and the tuple is confirmed, the value cannot be set back to N.

This option must have value Y for the Automatic Dialback feature to function properly.

Verification

Not applicable

ENHANCED_PASSWORD_CONTROL (end)

Memory requirements

This parameter has no memory impact.

Dump and restore rules

Copy the existing value of this parameter when doing a dump and restore.

Parameter history

BCSxx

Setting the value to Y cannot be reversed.

ERL_SPT

Parameter name

Echo Return Loss and Singing Point

Functional description

The ERL_SPT parameter specifies if the trunk test positions have the Echo Return Loss and Singing Point features.

Set this parameter to Y (yes) for switching units with the Echo Return Loss and Singing Point features. Leave the parameter at the default value of N (no) for switching units that do not have these features.

Rules in provisioning

Set the value of this parameter to Y for switching units with the following software:

- Trunk Test Position (TTP) Transmission Measurement
- International TTP

Leave this parameter at the default value of N for switching units that do not have the above software.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

EXPANDED_INBAND_PERMITTED

Parameter name

Expanded Inband Permitted

Functional description

The EXPANDED_INBAND_PERMITTED parameter is required if the switching unit supports outgoing Traffic Service Position System (TSPS) trunks. The parameter specifies if the expanded inband signaling capability from TSPS to coin line is enabled.

Rules in provisioning

Set the value of this parameter to Y (yes) to enable the expanded inband signaling capability provided by the 4X Operation - Bell Format Automatic Number Identification (ANI) software.

Leave this parameter at the default value of N (No) for switching units that do not have the 4X Operation - Bell Format ANI software.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

EXPANDED_INBAND_PERMITTED (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

FIVMIN_SNAPSHOT_ENABLED-U.S. only

Parameter name

Five Minute Snapshot Enabled

Functional description

The FIVMIN_SNAPSHOT_ENABLED-U.S. ONLY parameter is required for a switch with the Engineering and Administrative Data Acquisition System (EADAS) interface. This parameter specifies if the 5 min snapshot process must be turned on or off.

The EADAS for network manager (EADAS/NM) is an Operational Support System. The EADAS/NM provides the operating company network managers with traffic measurements and control capabilities for the operating companies network of telephone switches.

Based on the data collected every 5 min, the EADAS/NM system can:

- keep the network of telephone switches operating at near maximum efficiency
- help the network keep network accuracy during overloads or facility failures

Set this parameter to Y (Yes) if this parameter is activated. The system collects, formats, and transmits measurements from the DMS-100F operational measurement (OM) system. The system sends the measurements to EADAS every 5 min.

Rules in provisioning

Set this parameter to Y when the switch has the EADAS/NM feature.

Leave this parameter at the default value N (no) for a switch that does not have the EADAS/NM feature.

If the EADAS/NM feature is added to a current switch at the time of an extension, change this parameter from N to Y.

Range information

Minimum	Maximum	Default
		N

FIVMIN_SNAPSHOT_ENABLED-U.S. only (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**CSP03**

The activation is changed to immediate in CSP03. The start again requirement was removed in CSP03.

BCS19

This parameter was introduced in BCS19.

FLEXIBLE_DIGIT_ANALYSIS

Parameter name

Flexible Digit Analysis

Functional description

The FLEXIBLE_DIGIT_ANALYSIS parameter specifies if the Flexible digit Analysis feature is enabled.

The Flexible Digit Analysis feature provides flexible digit analysis on the Centrex PCM-30 line group controllers (PLGC). Before the implementation of this feature, the digit analysis was either Integrated Business Network (IBN) digit collection or plain old telephone service (POTS). This feature implements international digit analysis to improve digit collection on PLGCs.

Rules in provisioning

Set the value of this parameter to Y (yes) to enable the Flexible Digit Analysis feature.

Set the value of this parameter to N (no) to disable the Flexible Digit Analysis feature.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

This parameter deactivates the feature in the central control (CC). To deactivate the feature in the XMS-based peripheral module (XPM), make sure tables DGHEAD and DGCODE do not contain entries.

Verification

Does not apply

FLEXIBLE_DIGIT_ANALYSIS (end)

Memory requirements

Each unit requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS30

This parameter was introduced in BCS30.

FRB_RINGING_TIME

Parameter name

Faultsman's Ringback Ringing Time

Functional description

The FRB_RINGING_TIME parameter is required in a local switching unit with international translations. This parameter is required for the Faultsman's Ringback maintenance feature. Operating company personnel use the feature to test the continuity of a line while on the premises of a subscriber. Operating company personnel do not require the help of a counterpart in the switching unit to test the line. This parameter can obtain an audible ringing on the telephone of a subscriber to enable adjustment to the ringer.

To use the Faultsman's Ringback feature, the operating company personnel on the premises of the subscriber takes the telephone off hook. The operating company personnel hear the dial tone and dial a special access code. Table PXC CODE contains this special access code. An acknowledgement tone signals the operating company personnel to put the telephone back on hook. The DMS switch sends an audible ringing to the line. The switch rings back. If the operating company personnel answer the ring back, a dial tone is heard on the line. If the telephone is not placed on hook before the acknowledgement times out, the line is set to lockout. The system generates a log report to show that the feature terminated before it was complete. If the called party does not answer the telephone before the ringing times out, the line is set to normal. Normal is the idle state.

This parameter specifies the length of time for which the DMS switch sends an audible ringing to line if no off hook is received. This parameter measures the time in 1 s intervals.

Rules in provisioning

Specify the length of time for which the DMS switch sends an audible ringing to the line if no off hook is received. These off hooks are received during the Faultsman's Ringback maintenance test. This parameter measures the time in 1-s intervals.

Range information

Minimum	Maximum	Default
60	180	60

FRB_RINGING_TIME (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS21**

This parameter was introduced in BCS21.

FREE_NUMBER_DENIAL

Parameter name

Free Number Denial

Functional description

The FREE_NUMBER_DENIAL parameter is required for switching units with the Local Call Detail Recording (LCDR) software package. This parameter eliminates every way to charge calls to other numbers and requires that all calls be recorded.

Rules in provisioning

The following applies to all lines that are added or changed, after the value of this parameter is set to Y (yes):

- The free number termination (FNT) and special billing (SPB) line options are not available.
- The system assigns the Lcdr option to all lines. If the line class code or line options are not compatible with Lcdr, the system does not assign the Lcdr option.

The following applies when the user sets the value of this parameter to Y:

- Table control for the LENLINES table does not add the FNT option and prints the message FNT not available.
- Rejection of a service order that includes the FNT option occurs.
- Table control for the LENLINES table does not add the SPB option and prints the message SPB not available.
- Rejection of a service order, that includes the SPB option occurs. When SPB is input, the SPB directory number (SPB_DN) prompt occurs. Rejection of the option occurs on the input of Y to be changed.
- If the user adds an entry to table LENLINES, the system adds Lcdr to the options of the line. If the user issues a command in the SERVORD system, the system adds Lcdr to the options of the line. The addition of Lcdr is indicated when table LENLINES lists the tuples and QDNs used. Attempts to delete Lcdr are ignored, for example, the command in the table editor or DEO in SERVORD.

FREE_NUMBER_DENIAL (end)

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Parameter History**BCS14**

This parameter was introduced in BCS14.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

When the user restores a switching unit with this feature, rejection of some tuples can occur. Rejection can occur because the tuples contain the SPB or FNT option.

FRIU_BILLING_COUNT_FORMAT

Parameter name

Frame Relay Interface Unit Billing Count Format

Functional description

The Frame Relay billing software uses the FRIU_BILLING_COUNT_FORMAT parameter to specify the billing format. This parameter specifies the format that the operating company uses to bill the subscriber.

Rules in provisioning

The possible values of this parameter are OCTET, CELL, SEGMENT, or NONE. The default value is NONE.

The Frame Relay Interface Unit (FRIU) collects the raw billing data. The FRIU collects the data in different formats. The formats include:

- frame count and octet count
- frame count and segment count (64 bytes)
- frame count and cell count (44 bytes)

According to the asynchronous transfer mode (ATM) format, a cell is 44 bytes. Cells are built from the frame, plus 8 bytes of overhead for the IMPDU header and trailer.

A segment is 64 bytes of data in a frame.

Nortel determines the correct value at the time of the first input.

Range information

Minimum	Maximum	Default
		NONE

Activation

The user can change the value of this parameter from NONE to one of the other formats. The user requires a busy (BSY), peripheral module reset (PMRESET) or BSY, offline (OFFL) and return to service (RTS) of all FRIUs in the office to change the value. Other changes to the parameter require the

FRIU_BILLING_COUNT_FORMAT (end)

deletion of all entries in table PVDNCUST. The system must delete the BSY, PMRESET and RTS of all FRIUs in the office.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

Each unit requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS33**

This parameter was introduced in BCS33.

GATEWAY_CDR_RECORD_ID

Parameter name

Gateway Call Detail Recording Record ID

Functional description

The GATEWAY_CDR_RECORD_ID parameter is associated with the Call Detail Recording (CDR) feature. This parameter specifies the CDR call record format that all DMS-300 gateway switching use. This parameter also specifies the pad option for the non-call records.

The CDR information allows the operating company to recover costs from operating companies. These costs are connected to the DMS-300 gateway. Information that the DMS-300 switching unit captures is not normally used for subscriber billing.

In BCS34, this parameter changes to include the function that the office parameter GATEWAY_CDR_PAD_OPTION provides. This modification requires GATEWAY_CDR_RECORD_ID to become a two-field parameter. The two fields are RECORD_ID and PAD_OPTION.

Rules in provisioning

Field RECORD_ID specifies the CDR call record format used in all DMS-300 gateway switching.

For field RECORD_ID, the range of values depends on which formatters are in the load. Only formatters present in the load appear in the range.

Set field RECORD_ID to one of the following values:

- CDR01 provides call records with record code 01.
- CDR08 provides call records with record code 08.
- CDR09 provides call records with record code 09.
- CDR0A provides call records with record code 0A.
- CDR0E provides call records with record code 0E.
- CDR10 provides call records with record code 10.
- CDR1A provides call records with record code 1A.

Field PAD_OPTION indicates the type of padding used to extend the gateway CDR records to a standard length in a DMS-300 switch.

GATEWAY_CDR_RECORD_ID (continued)

Set the value of this field to Packet Assembler/Disassembler (PAD) to pad the non-call records with blanks. Set the value to PAD until the pads reach the length of the call record that corresponds to the specified record identifier.

Set the value of this field to NOPAD so that non-call records are not padded (except to pad to an even number of bytes). The following table displays the length of the non-call records.

Non-call record length

Non-call record	Length (in bytes)
Block header record 02	22
Incoming transfer record 03	18
Outgoing transfer record 04	18
Outgoing emergency transfer record 05	18
Timechange record 06	20
Transfer record 07	12

Set the value of this field to P124 so all records can be padded to 124 bytes. Set the value to P124 unless the record length is greater than 124 bytes. If the record is greater than 124 bytes, the record is not truncated, or padded.

Range information

Minimum	Maximum	Default
		NONE P124

Activation

Cold restart

If the user changes the value of this parameter from CDR0A to CDR1A or from CDR1A to CDR0A, no restart is required.

Dependencies

Does not apply

GATEWAY_CDR_RECORD_ID (end)

Consequences

If the user sets the parameter to the wrong value, a failure of the downstream processing of the CDR occurs. Record format differences cause the failure.

Verification

Does not apply

Memory requirements

Each unit requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS29

This parameter was introduced in BCS29.

CSP02

Office parameter GATEWAY_CDR_RECORD_ID is no longer used for CSP02 software.

GRP_NUM_FEAT_CTRL

Parameter name

Group Number Feature Control

Functional description

The GRP_NUM_FEAT_CTRL parameter is required for a Meridian Digital Centrex (MDC) switching unit with Group Number Feature Control.

The Group Number Feature Control feature improves the user interface. This feature improves the ability to create, modify, and query the following:

- call pickup (CPU) groups
- speed calling user (SCU) groups
- hunt groups

The feature provides the ability to assign a different group number for each of the above types of groups. Group numbers are assigned when the group is first established.

The group number is used during service order entry. The group number provides easy access to the data for each group for modification, for example, the addition of new parts. The group number also provides access to query the group data.

The above capability is not for residential (RES) SCU groups.

Note: Installation of group number feature control requires strict adherence to the activation procedure, Group Number Feature Control in the *Translations Guide*. Failure to adhere to this activation procedure can result in serious corruption of data tables and table control.

Rules in provisioning

The GRP_NUM_FEAT_CTRL parameter must *not* be set by operating company personnel.

If the Group Number Feature Control feature is provided, refer to Group Number Feature Control in the *Translations Guide* for the activation procedure. The procedure sets the value of parameter GRP_NUM_FEAT_CTRL to Y (yes). After the parameter is set to Y, the parameter must remain at Y. Contact Technical Assistance Service (TAS) before deactivation plans.

If the Group Number Feature Control feature is not provided, leave the value of this parameter at the default value of N (no).

GRP_NUM_FEAT_CTRL (end)

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Enter SERVORD to verify that the parameter is set and operational. Make sure that prompts for SCL, CPU and hunt groups prompt for group numbers instead of line equipment numbers (LENs).

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS28

This parameter was introduced in BCS28.

HNT_SO_SIMPLIFICATION

Parameter name

Hunt Group Service Order Simplification

Functional description

The operating company uses the HNT_SO_SIMPLIFICATION parameter, to activate the Hunt Group Service Order Simplification feature.

Rules in provisioning

Set this parameter to Y (yes) if the operating company possesses the Hunt Group Service Order Simplification feature. If the company does not possess the Hunt Group Service Order Simplification feature, set the parameter to N (no).

Northern Telecom personnel must set this parameter value.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

HNT_SO_SIMPLIFICATION (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS31

This parameter was introduced in BCS31.

IBN_CFW

Parameter name

Integrated Business Network Call Forwarding

Parameter history

NA004

Office parameter IBN_CFW was deleted in NA004.

IBN_DATA_LINE_SPLIT

Parameter name

Integrated Business Network Data Line Split

Functional description

The IBN_DATA_LINE_SPLIT parameter indicates if the following can be allocated from a common pool of lines or two separate pools:

- Integrated Business Network (IBN) data lines
- IBN Lines
- IBN business sets

A common pool of lines exists when Software Optionality Control (SOC) MDC00058 is set to the maximum number of:

- IBN lines
- IBN Business Sets
- IBN Data Lines allowed

In order for two separate pools to exist, the following must occur:

- one pool for IBN lines and IBN business sets, must have SOC MDC00058 set to the upper limit
- one pool for IBN data lines, must have parameter MAX_DATA_LINES set to the upper limit

Rules in provisioning

Northern Telecom sets this parameter during loadbuilding. The way the customer orders the IBN or Datapath determines the parameter setting.

After first input, the user must not modify this option without a new software release.

Range information

Minimum	Maximum	Default
		N

IBN_DATA_LINE_SPLIT (end)

Activation

Immediate

Dependencies

If the office parameter is set to Y (yes):

- SOC MDC00058 specifies the maximum number of IBN lines and IBN business sets that the user can assign
- office option MAX_DATA_LINES specifies the maximum number of IBN data lines that the user can assign

If the office parameter is set to N (no):

- SOC MDC00058 specifies the maximum number of IBN lines, IBN business sets and IBN data lines that the user can assign
- office parameter MAX_DATA_LINES does not apply

Refer to office parameter MAX_PDATA_LINES for the maximum number of plain old telephone services (POTS) Data lines that the user can assign.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**NA007**

References to office parameter MAX_IBN_LINES were replaced by SOC MDC00058.

BCS16

This parameter was introduced in BCS16.

ILR_OPTIONS

Parameter name

International Line Restriction Options (ILR_OPTIONS)

Functional description

The ILR_OPTIONS parameter allows a subscriber to activate or deactivate call restrictions on the subscriber line. When a subscriber activates or deactivates a restriction, the subscriber requires a password.

Rules in provisioning

The ILR_OPTIONS parameter consists of fields ACTIVATION_SEQUENCE and DEACTIVATION_SEQUENCE.

If the value of field ACTIVATION_SEQUENCE is set to CR_PSWD, the user must enter the call restriction before the password. The user enters the password during subscriber activation.

If the value of field ACTIVATION_SEQUENCE is set to PSWD_STAR_CR, the user must enter the password before the call restriction. The user enters the password during subscriber activation.

If the value of field DEACTIVATION_SEQUENCE is set to CR_PSWD, the user must enter the call restriction and the password to deactivate. The user enters the call restriction and the password during subscriber deactivation.

If the value of field DEACTIVATION_SEQUENCE is set to PSWD, the user is not required to enter the call restriction during subscriber deactivation.

Range information

Minimum	Maximum	Default
		PSWD_STAR_CR PSWD

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

Each unit requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS34

This parameter was introduced in BCS34.

INTERCOM

Parameter name

Intercom

Functional description

The operating company uses the INTERCOM parameter in a local switch with the Single-Party Revertive Calling software package (NTX049AD).

The INTERCOM parameter specifies if the switching unit has the Intercom feature.

Rules in provisioning

Set the value of parameter INTERCOM to Y (yes) to activate the Intercom feature.

Leave the value of parameter INTERCOM at the default of N (no) if the operating company does not require this feature.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Stations with this feature have the option INT in table LENLINES.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

INTERCOM (end)

Dump and restore rules

Copy the current value of the INTERCOM parameter when you perform a dump and restore.

Parameter history

CSP02

Restart activation requirement was removed in CSP02.

INTL_INTRASWITCHING

Parameter name

International Intraswitching (INTL_INTRASWITCHING)

Functional description

The INTL_INTRASWITCHING parameter is required in a local switching unit with common translations. The parameter specifies if the International Intraswitching feature on the International Remote Line Concentrating Module (IRLCM) is active or inactive.

Intraswitching is the name used to describe the connection between two parties on the same remote peripheral module (PM). The connection occurs through the PM, and not the network.

Rules in provisioning

If you set the value to Y (yes), the intraswitching feature is active.

If you leave the value at the default value of N (no), the International Intraswitching feature is inactive.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

INTL_INTRASWITCHING (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS22

This parameter was introduced in BCS22.

ISDN_INFO_EXT_REC

Parameter name

Integrated Services Digital Network Information Extension Record
(ISDN_INFO_EXT_REC)

Functional description

The ISDN_INFO_EXT_REC parameter is required in an ISDN DMS-300 gateway switch. The system produces Call Detail Recording (CDR) records that the Accounting Statistics Processing System (ASPS) requires.

This parameter specifies if the system generates an extension record. Extension records contain ISDN information (with record code 0C) during an ISDN call.

Rules in provisioning

Set the value of this parameter to Y (yes), if the system must generate an extension record that contains ISDN information. The system generates the extension record when an ISDN call occurs. If the system must not generate a record, set the value of this parameter to N (no).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

ISDN_INFO_EXT_REC (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS31

This parameter was introduced in BCS31.

ISUP_SUBGRP_GLARE_AVAILABLE

Parameter name

Integrated Services Digital Network User Part Subgroup Glare Available

Functional description

This parameter specifies if the two types of glare resolution that follow are available for ISDN User Part (ISUP) trunks:

- the odd/even circuit identification code (CIC) method
- the selectable per trunk subgroup (SGRPYLD) method

The odd/even CIC method with two switches that connect with ISUP trunks occurs as follows. The system grants control of all the trunks with even-numbered CICs to the switch with the higher originating point code. This condition applies when glare occurs. The system grants control of all the trunks with odd-numbered CICs to the switch with the lower originating point code.

For the trunk subgroup SGRPYLD method of glare resolution, the CICs do not determine which switch controls and which switch yields. The operating company determines which trunk subgroups control and which subgroups yield. To determine subgroup control and yield, set the correct value in field GLAREYLD in table TRKSGRP for each trunk subgroup.

An attempt to use the SGRPYLD method with a switch with the CIC method results in the message that follows:

```
WARNING: SGRPYLD glare method not available at far end; using  
CIC method.
```

A change in the value of this option from Y (yes) to N (no) results in the error message that follows:

```
WARNING: Changing ISUP_SUBGRP_GLARE_AVAILABLE from Y to N --  
glare resolutions may result.
```

This feature can be disabled and a modification to a trunk subgroup entry that employs the SGRPYLD method can occur. For this condition, the following warning message appears:

```
WARNING: SGRPYLD glare method not available; using CIC method.
```

ISUP_SUBGRP_GLARE_AVAILABLE (continued)

Rules in provisioning

If the value of this parameter is set to Y (yes), the two methods of glare resolution are available. The two new subfields in table TRKSGRP are visible and datafill can occur.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

If you set this parameter to N, subfield GLAREYLD in table TRKSGRP datafill cannot occur. You must enter the value CIC in subfield GLARETYP.

The trunk sub-group resolution method is acceptable in table TRKSGRP if you set option ISUP_SUBGRP_GLARE_AVAILABLE to Y in table OFCOPT. This method allows you to determine the glare resolution on the standard of the trunk sub-group.

Consequences

If left at the default value of N, resolve glare resolution with the use of the CIC method. The CIC method encounters problems for interaction with any switch that employs the trunk subgroup method.

Verification

To verify that the option is set and operational, enter datafill for the value of SGRPYLD for subfield GLARETYP in table TRKSGRP.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

ISUP_SUBGRP_GLARE_AVAILABLE (end)

Parameter history

BCS28

This parameter was introduced in BCS28.

KEYSET_SRT

Parameter name

Keyset Station Ringer Test (KEYSET_SRT)

Functional description

The KEYSET_SRT parameter specifies if a station ringer test can be performed on one of the following:

- an Integrated Business Network (IBN) Business Set
- an IBN
- a Plain Old Telephone Service (POTS) Data Line

Rules in provisioning

Set value of the KEYSET_SRT parameter to Y (yes) for switching units that have IBN Proprietary Business Set software.

Leave the value of this parameter at the default of N (no) for switching units that do not have the IBN Proprietary Business Set software.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

KEYSET_SRT (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

LAMA_OFFICE

Parameter name

Local Automatic Message Accounting Office (LAMA_OFFICE)

Functional description

The LAMA_OFFICE parameter specifies if the switching unit has Local Automatic Message Accounting (LAMA) feature.

Rules in provisioning

If the switching unit has the LAMA feature, set the value of this parameter to Y (yes).

For a switching unit that does not have the LAMA feature, leave the value at the default of N (no).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

When you add the LAMA feature to a current switch, leave the value of the option at the default value. To activate the LAMA feature, set the value of the option to Y (yes).

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

LAMA_OFFICE (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

LCM_PM_MSG_CNT

Parameter name

Line Concentrating Module Peripheral Module Message Counter
(LCM_PM_MSG_CNT)

Functional description

The LCM_PM_MSG_CNT parameter controls the definition of operational measurement (OM) group PM_MSG_CNT.

A change in the value of the LCM_PM_MSG_CNT parameter causes the OM group to be defined or not defined.

Rules in provisioning

Set the value of this parameter to Y (yes), to define the OM group PM_MSG_CNT and initiate data collection.

Set the value of this parameter to N (no), if the user does not require data collection for the OM group PM_MSG_CNT.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

The value of this parameter can change from Y to N and back to Y. If these changes occur, the active and holding registers for the OM group PM_MSG_CNT display data. The registers for the OM group PM_MSG_CNT display data from the first period that the parameter was set to Y. These actions occur if two OMXFR periods occur between changes. Allow an interval of 30 min to pass before you change this parameter value from N back to Y.

Dependencies

Does not apply

LCM_PM_MSG_CNT (end)

Consequences

Does not apply

Verification

Issue the command `OMSHOW PM_MSG_CNT ACTIVE` after you activate the Line Concentrating Module Peripheral Module Message Counter feature. Activation of the Line Concentrating Module Peripheral Module Message Counter feature causes the OM data to be output to the terminal. If the parameter value changes to N (no), the group is not defined and OM data is not output for the group.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS20

This parameter was introduced in BCS29.

CSP02

Warm restart activation requirement was removed in CSP02.

LOCAL_COIN_OVERTIME_FEATURE

Parameter name

Local Coin Overtime Feature

Functional description

The LOCAL_COIN_OVERTIME_FEATURE parameter specifies if the switching unit has the Local Coin Overtime Charging feature.

Rules in provisioning

Set the value of the LOCAL_COIN_OVERTIME_FEATURE parameter to Y (yes) to activate the Local Coin Overtime Charging Feature.

Set the value of this parameter to N (no) if this feature is not required.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

If this parameter is set to Y, and the multi-unit message rate service is present, make sure that the following tables contain entries:

- MRSANAME
- MUMRMBI
- MUMRTAB
- TDCSCHED
- CHARGTAB

Consequences

Does not apply

Verification

Does not apply

LOCAL_COIN_OVERTIME_FEATURE (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

LOOP_BACK

Parameter name

Loop Back

Functional description

The LOOP_BACK parameter specifies if the transmit and receive pads in the network must be looped back-to-back. The pads must be looped back during tests from the Trunk Test Position (TTP).

Rules in provisioning

Does not apply

Range information

Set the value of this parameter to Y (yes) to allow the transmit and receive pads in the network to be looped back-to-back. The pads must be looped back during tests from the TTP.

Leave the value of this parameter at the default of N (no) if this feature is not required.

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

LOOP_BACK (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

MAX_ACDMIS_SESSIONS

Parameter name

Maximum Automatic Call Distribution Management Information System Sessions

Functional description

You will find the MAX_ACDMIS_SESSIONS parameter associated with BCS30 enhancements to the Automatic Call Distribution (ACD) Management Information System (MIS). This parameter associates with the BCS30 enhancements so that the ACD MIS can support:

- a maximum of 32 MIS sessions for each switch for the NT40 architecture
- a maximum of 60 MIS sessions per switch for the SuperNode architecture.

The NT40 and SuperNode can support a maximum of 60 Remote Operation (RO) sessions at one time. Applications other than ACD MIS use RO sessions. Conditions can occur in which the ACD MIS does not support 32 sessions for the NT40 and 60 sessions for SuperNode.

The maximum number of ACD MIS sessions allowed on a switch is equal to the lower of the following values:

- MAX_ACDMIS_SESSIONS office parameter
- NOS_QUANTITY_OF_SVCS - the number of active RO sessions that are not ACD MIS.

Rules in provisioning

Specify the maximum number of simultaneous MIS sessions allowed.

Ensure the value of this office parameter never exceeds the value of office parameter NOS_QUANTITY_OF_SVCS.

Range information

Minimum	Maximum	Default
0	32 (NT40) 60 (SuperNode)	5

MAX_ACDMIS_SESSIONS (continued)**Activation**

A warm restart must be performed to activate changes to the value of this parameter. Consult *NORESTARTSWACT/MTCSWACT Users Guide*, 297-1001-546.

Dependencies

Does not apply

Consequences

Overprovisioning of this parameter can affect the ACD MIS session response time. The parameter is overprovisioned when more than 15 ACD MIS sessions occur when 15 ACD MIS sessions are in use. Set this parameter to greater than 15, when more than 15 simultaneous ACD MIS sessions occur.

Verification

Does not apply

Memory requirements

The Maximum Automatic Call Distribution Management Information System Sessions feature expands the ACD MIS Data Store (DS) requirements. The feature expands the requirements because the system supports more ACD MIS sessions. In order to expand the requirements, the per-session DS requirements are decreased by approximately 12 kbytes (NT40 and SuperNode). Refer to the following tables for BCS30 DS use.

BCS30 DS use for ACDMIS with MAX_ACDMIS_SESSIONS ≤ 15

Session	NT40	SuperNode
Per session	47 kbytes	48.5 kbytes
15 sessions	$15 \times 47 = 705$ kbytes	$15 \times 48.5 = 727.5$ kbytes
32 sessions	Does not apply	Does not apply
60 sessions	Does not apply	Does not apply

BCS30 DS use for ACDMIS with MAX_ACDMIS_SESSIONS > 15 (Sheet 1 of 2)

Session	NT40	SuperNode
Per session	35 kbytes	36.5 kbytes
15 sessions	$15 \times 35 = 525$ kbytes	$15 \times 36.5 = 547.5$ kbytes

MAX_ACDMIS_SESSIONS (end)

BCS30 DS use for ACDMIS with MAX_ACDMIS_SESSIONS > 15 (Sheet 2 of 2)

Session	NT40	SuperNode
32 sessions	$32 \times 35 = 1120$ kbytes	$32 \times 36.5 = 1168$ kbytes
60 sessions	Does not apply	$60 \times 36.5 = 2190$ kbytes

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS30**

This parameter was introduced in BCS30.

CSP02

The restart activation requirement was removed in CSP02.

MAX_BCLID_DATA_LINKS

Parameter name

Maximum Bulk Calling Line Identification Data Links

Functional description

This parameter specifies the maximum number assignments of bulk calling-line identification (BCLID) data links in table IBNLINES.

To deactivate this feature, set the parameter value to 0 (zero). If BCLID data links are present in table IBNLINES, the links are not removed or restricted. When the parameter is set to 0, the addition of more BCLID data links cannot occur.

This parameter applies to lines in table IBNLINES with the field FORMAT set to business line (BL). If the number of lines exceeds the value of this parameter, the new tuple is not added. The system displays the message that follows at the MAP terminal:

```
MAXIMUM NUMBER OF BCLID DATA LINKS HAS BEEN REACHED
```

Rules in provisioning

Set the value of this parameter to the desired maximum number of BCLID data links assignments in table IBNLINES.

Range information

Minimum	Maximum	Default
0	4096	10

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is not set at the correct value, the system cannot assign enough BCLID links.

MAX_BCLID_DATA_LINKS (end)

Verification

Does not apply

Memory requirements

This parameter requires 4 words of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

The parameter was introduced in BCS31.

MAX_BRA_LINES

Parameter name

Maximum Basic Rate Access Lines

Functional description

This parameter specifies the maximum number of assignments of Integrated Services Digital Network (ISDN) basic rate access (BRA) lines.

Rules in provisioning

Specify in 100-line increments the maximum number of ISDN BRA lines required for the engineering interval.

Range information

Minimum	Maximum	Default
0	10000	10

Activation

Immediate

Nortel sets the value of this parameter during load build.

Dependencies

The number of ISDN BRA lines required for the engineering interval can exceed 100 times the existing value of this parameter. This condition requires an increase in the value of this parameter.

For Centrex IP, increase the value of this parameter in relation to the number of ISDN and Centrex basic rate interface (BRI) lines you must provision. Each ISDN BRI line supports one client. The initial provisioning limit of parameter MAX_BRA_LINES supports a maximum of 1000 Centrex IP clients.

Operating company personnel can change the value of this parameter to fit each office's configuration.

Note: Nortel Networks recommends that operating company personnel increase MAX_BRA_LINES by 50 (or 5000 lines) for each XMS-based peripheral module (XPM) for Centrex IP.

MAX_BRA_LINES (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history**XPM13**

Added recommendation under Dependencies to increase the value of this parameter for Centrex IP.

CSP02

The restart activation requirement is removed in CSP02.

BCS36

Activation information is added in BCS36.

BCS28

This parameter was introduced in BCS28.

MAX_DATA_LINES

Parameter name

Maximum Number of Data Lines

Functional description

This parameter is required if the following two conditions occur:

- the switching unit has Integrated Business Network (IBN) data lines
- office parameter IBN_DATA_LINE_SPLIT is set to a value of Y (yes)

This parameter specifies the maximum number of assignments of IBN data lines in 100-line increments.

If the switching unit has office parameter IBN_DATA_LINE_SPLIT set to N (no), this parameter does not apply.

When the number of IBN data lines exceeds the value of this parameter, the following message appears at the MAP display:

MAXIMUM NUMBER OF DATA LINES REACHED

Rules in provisioning

In theory, the maximum value for this parameter is 1000 ($1000 \times 100 = 100\,000$ lines). The actual maximum value is as follows.

If the switching unit is an NT40, the maximum value for this parameter cannot exceed:

300 – (the value set by Software Optionality Control (SOC) MDC0058/100 + the value of parameter MAX_PDATA_LINES + the value of option MAX_RES_LINES)

If the switching unit is a SuperNode, the maximum value for this parameter cannot exceed:

1000 – (the value set by SOC MDC00058/100+ the value of parameter MAX_PDATA_LINES+ the value of option MAX_RES_LINES)

MAX_DATA_LINES (continued)

Range information

Range information is as follows:

Minimum	Maximum	Default
0	1000	0

Activation

Immediate

Northern Telecom set this parameter value during loadbuild. The purchaser of the switch orders IBN or Datapath to indicate how this parameter is set. The NT8600 or equivalent questionnaire supplies datafill for this parameter.

Dependencies

At extension time, the value of this parameter must increase if the maximum number of data lines required for the engineering interval increases.

Refer to SOC MDC00058 for the maximum number of assignments of IBN lines and IBN business sets.

Refer to office parameter MAX_PDATA_LINES for the maximum number assignments of Plain-Old Telephone Service (POTS) data lines.

Consequences

Modifications of this parameter must occur during a new software release. Modifications to this parameter can occur without a new software release. In this condition, when the count decreases below the number of current IBN data lines filled, all lines are for use. The addition of IBN data lines cannot occur. Each data line in excess of the maximum deletes. The user cannot add the deleted lines again. The user can decrease the value of this parameter. The new maximum must be less than the number of IBN data lines already assigned in table KSETLINE.

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

MAX_DATA_LINES (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS16.

NA008

Corrected provisioning error.

NA007

References to office parameter MAX_IBN_LINES were replaced by SOC MDC00058.

BCS36

Immediate activation was specified in BCS16.

MAX_LAPB_TERMINALS

Parameter name

Maximum LapB Terminals

Functional description

This parameter specifies the maximum number of LapB terminals that the system can map to the Digital Multiplex System Packet Handler (DMS-PH). The value of this parameter is set at the first loadbuild. The quantity of LapB terminals that the operating company acquires determines the value of the parameter.

Rules in provisioning

This parameter value equals the number of LapB terminals that the most basic DMS-PH package can service.

Range information

Minimum	Maximum	Default
0	32767	10

Activation

Immediate

Dependencies

Table LTMAP checks the current value of this parameter against the number of DMS-PH LapB terminals.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

MAX_LAPB_TERMINALS (end)

Parameter history

This parameter was introduced in BCS34.

MAX_LAPD_TERMINALS

Parameter name

Maximum LapD Terminals

Functional description

This parameter specifies the maximum number of LapD terminals that the system can map to the Digital Multiplex System Packet Handler (DMS-PH). The value of this parameter is set at the first loadbuild. The quantity of LapD terminals the operating company acquires determines the value of the parameter.

Rules in provisioning

This parameter value equals the number of LapD terminals that the most basic DMS-PH package can service.

Range information

Minimum	Maximum	Default
0	32767	100

Activation

Immediate

Dependencies

Table LTMAP checks the current value of this parameter against the number of DMS-PH LapD terminals.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

MAX_LAPD_TERMINALS (end)

Parameter history

This parameter was introduced in BCS34.

MAX_MBG_LINES

Parameter name

Maximum Multi-switch Business Group Lines

Functional description

This parameter specifies the maximum number of acceptable multi-switch business group (MBG) lines in units of 100.

Rules in provisioning

Only authorized Northern Telecom personnel can change this parameter.

The default value of this parameter is 1. This default value is compatible with the price of each Integrated Business Network (IBN) line. The maximum number of MBG lines is equal to the value of this parameter multiplied by 100, subtract 1. For example, with the default datafill, addition of 99 MBG lines can occur.

For a switching unit in the United States, the recommended value for this parameter is 1000.

Range information

Minimum	Maximum	Default
0	1000	1

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

MAX_MBG_LINES (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS32.

MAX_NUM_ACD_AGENTS_PER_SWITCH

Parameter name

Maximum Number of Automatic Call Distribution Agents Per Switch

Functional description

A switching unit with the Automatic Call Distribution (ACD) feature requires this feature.

Rules in provisioning

Specify the maximum number of ACD agent positions that the operating company can assign on the switching unit.

Range information

Minimum	Maximum	Default
0	9999	0

Activation

Immediate

Dependencies

Change the value of this parameter if the maximum number of ACD agent positions the operating company can assign on the switching unit changes.

Consequences

A value for this parameter that is too low limits the number of ACD agent positions for each switching unit.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

MAX_NUM_ACD_AGENTS_PER_SWITCH (end)

Parameter history

APC007 and NA007

The maximum range value increased to 9999 in APC007 and NA007.

BCS26

This parameter was introduced in BCS26.

MAX_NUM_CTX_ASSOC

Parameter name

Maximum Number of Centrex Associations

Functional description

This parameter is for use with services that CompuCALL provides on the switch-computer applications interface (SCAI) link. A SCAI link is a messaging link. This link is between the operating company's DMS-100 switch and the customer's host computer. CompuCALL uses SCAI links to provide coordinated DMS-100 switch services to applications on the host customer's host computer.

This parameter specifies the CompuCALL maximum number of Meridian Digital Centrex (MDC) line associations active in the DMS-100 switch. The system requires this parameter for a CompuCALL application to connect an MDC line to a session. A CompuCALL application connects an MDC line to a session to receive call events or message waiting messages for that line.

This parameter increments by the number of members in a Multiple Appearance Directory Number (MADN) Single Call Arrangement (SCA) group. The members of the MADN group include primary and secondary members.

MADN SCA uses this office to allow or prevent association of the MADN group. The increment of this parameter requires the association of the MADN SCA members to the DV_DN_ASSOCIATE message. The DV_DN_ASSOCIATE message allows the host computer to inform the switch of the directory numbers (DN) to receive event messages. The association to the DV_DN_ASSOCIATE message applies to the primary MADN member. The association also applies to the secondary MADN members after the switch receives the primary member association. The DV_DN_ASSOCIATE message applies to MADN SCA DNs with the conditions that follow:

- association of the MADN group
- resource availability

Rules in provisioning

Does not apply

MAX_NUM_CTX_ASSOC (continued)

Range information

Minimum	Maximum	Default
		32767

Activation

Immediate

Dependencies

Does not apply

Consequences

If the value of this parameter is lower than the associated use level, the system maintains service to current SCAI groups. The system must cancel some CompuCALL services before provisioning new CompuCALL services. This action brings the in-use levels and link-use levels below the associated parameter values.

Verification

Tuples in tables SCAICOMS and SCAIPROF are correctly entered if the conditions that follow occur:

- this parameter is operational
- the CompuCALL in-use levels and link-use levels are below the associated parameter values

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA011

The addition of the MADN SCA information to allow or prevent association of the MADN group.

MAX_NUM_CTX_ASSOC (end)

NA005

This parameter was introduced in NA005.

MAX_NUM_ECM_ACDEVENT

Parameter name

Maximum Number of Extended Call Management ACDEVENTs

Functional description

This parameter is for use with services that CompuCALL provides on the switch-computer applications interface (SCAI) link. A SCAI link is a messaging link. The link is between a DMS-100 switch, of an operating company, and the host computer of a customer. The CompuCALL uses SCAI links to provide coordinated DMS-100 switch services to applications on the host computer of the customer.

This parameter specifies the CompuCALL maximum in-use levels for the ACDEVENT category. This category involves CompuCALL services related to Automatic Call Distribution (ACD) lines.

Rules in provisioning

Nortel personnel must set this parameter.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this office parameter for CompuCALL pricing control. Nortel consults with the customer to set the value of this parameter for each office. There is no recommended value.

Activation

Immediate

Dependencies

Parameter MAX_NUM_ECM_SVC in table OFCOPT defines the maximum number of link sets provisioned for CompuCALL. Nortel also determines this parameter value.

Consequences

If this parameter value is lowered below the associated use level, the system maintains service to current SCAI groups. The system must cancel some

MAX_NUM_ECM_ACDEVENT (end)

CompuCALL services before provisioning new CompuCALL services. This action brings the in-use level and link-use level below the associated parameter value.

Verification

The tuples in tables SCAICOMS and SCAIPROF are correctly entered if the conditions that follow occur:

- this parameter is operational
- the CompuCALL in-use levels and link-use levels are below the associated parameter values

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history**BCS36**

Parameter description moved from OFCSTD to OFCOPT.

BCS35

This parameter was introduced in BCS35.

MAX_NUM_ECM_CALLINIT

Parameter name

Maximum Number of Extended Call Management (ECM) Call Initiation

Functional description

This parameter is for use with services that CompuCALL provides on the switch-computer applications interface (SCAI) link. A SCAI link is a messaging link. The link is between the DMS-100 switch of an operating company, and the host computer of a customer. The CompuCALL uses SCAI links to provide coordinated DMS-100 switch services to applications on the host computer of the customer.

This parameter specifies the CompuCALL maximum in-use levels for the CALLINIT category. A CompuCALL application requires this parameter to request the Make Call function. The CompuCall application requests this function for an MDC or RES line to originate a call.

This parameter must be set before datafill for CALLINIT subservice in table SCAIPROF is completed.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

If the parameter changes, the system does not need to start again.

Dependencies

Tables SCAICOMS and SCAIPROF define the number of linksets and different MDC CompuCALL service categories. The service categories are RESEVENT, CALLINIT, SCAI3WC, SCAIMWTI, and DNQUERY.

MAX_NUM_ECM_CALLINIT (end)

Consequences

If this parameter value is lowered below the associated use level, the system maintains service to current SCAI groups. The system must cancel some CompuCALL services before the system provisions new CompuCALL services. This action brings the in-use level and link-use level below the associated parameter value.

Verification

Tuples in tables SCAICOMS and SCAIPROF are correctly entered if the conditions that follow apply:

- this parameter is operational
- the CompuCALL in-use levels and link-use levels are below the associated parameter values

Memory requirements

This parameter does not impact memory.

Dump and restore rules

The CompuCALL pricing control procedures are active during the dump and restore process. The dump and restore process does not fail if use levels are higher than the associated office parameter value.

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_NUM_ECM_CTXEVENT

Parameter name

Maximum Number of Extended Call Management CTXEVENTs

Functional description

This parameter is for use with services provided by CompuCALL on the switch-computer applications interface (SCAI) link. A SCAI link is a messaging link. The link is between the DMS-100 switch of an operating company, and the host computer of a customer. The CompuCALL uses SCAI links to provide coordinated DMS-100 switch services to applications on the host computer of the customer.

This parameter specifies the CompuCALL maximum in-use levels for the CTXEVENT category. This category involves CompuCALL services related to lines that are not Automatic Call Distribution (ACD) Centrex lines.

Rules in provisioning

Nortel personnel must set this parameter.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this office parameter for CompuCALL pricing control. Nortel consults with the customer to set the value of this parameter for each office. There is no recommended value.

Activation

Immediate

Dependencies

Parameter MAX_NUM_ECM_SVC in table OFCOPT defines the maximum number of linksets provisioned for CompuCALL. Northern Telecom determines this parameter value.

Consequences

If this parameter value is lowered below the associated use level, the system maintains service to current SCAI groups. The system must cancel some

MAX_NUM_ECM_CTXEVENT (end)

CompuCALL services before new CompuCALL services are provisioned. This action brings the in-use level and link-use level below the associated parameter value.

Verification

Tuples in tables ACAICOMS and SCAIPROF are correctly entered if the conditions that follow apply:

- this parameter is operational
- the CompuCALL in-use levels and link-use levels are below the associated parameter values

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history**BCS36**

Parameter description moved from OFCSTD to OFCOPT.

BCS35

This parameter was introduced in BCS35.

MAX_NUM_ECM_DNQUERY

Parameter name

Maximum Number of Extended Call Management (ECM) Directory Number (DN) Queries

Functional description

This parameter is for use with services CompuCALL provides on the switch-computer applications interface (SCAI) link. A SCAI link is a messaging link. This link is between the DMS-100 switch of an operating company, and the host computer of a customer. The CompuCALL uses SCAI links to provide coordinated, DMS-100 switch services to applications on the host computer of the customer.

This parameter specifies the CompuCALL maximum in-use levels for the DNQUERY category. The system requires this parameter if a CompuCALL application queries a Meridian Digital Centrex (MDC) or Residential Enhanced Services (RES) line to receive information about the line. The application uses the dv-DN-Query message.

This parameter must be set before datafill for the DNQUERY subservice in table SCAIPROF is completed.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

Dependencies

Tables SCAICOMS and SCAIPROF define the number of linksets. The tables also define the different MDC CompuCALL service categories the system can use on a linkset. The service categories are RESEVENT, CALLINIT, SCAI3WC, SCAIMWTI, and DNQUERY.

MAX_NUM_ECM_DNQUERY (end)

Consequences

If this parameter value is lowered below the associated use level, the system maintains service to current SCAI groups. The system must cancel some CompuCALL services before new CompuCALL services are provisioned. This action brings the in-use level and link-use level below the associated parameter value.

Verification

Tuples in tables SCAICOMS and SCAIPROF are correctly entered if the conditions that follow apply:

- this parameter is operational
- the CompuCALL in-use levels and link-use levels are below the associated parameter values

Memory requirements

This parameter does not impact memory.

Dump and restore rules

The CompuCALL pricing control procedures are active during the dump and restore process. The dump and restore process does not fail if use levels are higher than the associated office parameter value.

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_NUM_ECM_ICCM

Parameter name

Maximum Number of Enhanced Call Management (ECM) Integrated Call Center Manager (ICCM)

Functional description

This parameter governs the maximum numbers of CompuCALL service category ICCM and CompuCALL links that can be provisioned in a DMS-100 switch. The default value is the minimum value, zero. Nortel sets and, if necessary, modifies this office parameter. No restart is required if the parameter value is changed.

During a dump and restore process, the CompuCALL pricing control procedures are active, but the dump and restore process does not fail if the usage levels are higher than the corresponding office parameter values.

Provisioning rules

Not applicable

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate. No restart is required if the parameter values are changed.

Dependencies

The number of linksets and the number of unique CompuCALL service categories that can be used on a particular linkset, defined by tables SCAICOMS and SCAIPROF, are affected by this parameter.

Consequences

This parameter is not used for engineering purposes. The desired number of links and the selection of CompuCALL service categories to be used on the linksets determine the office parameter values. The in-use levels are generally below the corresponding office parameter values.

MAX_NUM_ECM_ICCM (end)

Once CompuCALL services are provisioned, any given level is allowed to fall below the corresponding office parameter value. If any office parameter value is lowered below the corresponding usage level, service is maintained to existing SCAI groups. However, no new CompuCALL services can be provisioned until some CompuCALL service are cancelled. Cancelling services brings the in-use levels for categories and link-use level for CompuCALL below the corresponding office parameter values.

Verification

Activity verification is performed by the successful entry of tuples into tables SCAICOMS and SCAIPROF, at which time the in-use levels and line-use level are below the corresponding parameter values.

Memory requirements

Not applicable.

Dump and restore rules

Unchanged.

Parameter history**NA008**

This release introduces this parameter.

MAX_NUM_ECM_LINE_MAKECALL

Parameter name

Maximum Number of Extended Call Management (ECM) Line Make Call

Functional description

Services that CompuCALL provides on the switch-computer applications interface (SCAI) link uses this parameter. An SCAI link is a messaging link between a DMS-100 switch of an operating company and a host computer of the subscriber. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

The CompuCALL application requires this parameter to perform the Make Call function on an MDC or RES line. The CompuCALL application performs the MakeCALL from a session to originate a call from the line. This parameter specifies the maximum number of CompuCALL ECM line service for the Make Call function. Set this parameter before you enter the CALLINIT subservice in table SCAISSRV

Set this parameter before you enter the MAKECALL subservice in table SCAIPROF.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

Dependencies

This parameter affects the maximum number of lines entries allowed in tables IBNFEAT and KSETFEAT. The tables are entered with the ECM line suboption Make Call

MAX_NUM_ECM_LINE_MAKECALL (end)

Consequences

If you lower the value of this parameter below the corresponding usage level service continues to current lines. It is not possible to provision new CompuCALL ECM line services until some CompuCALL line services are cancelled. Cancel some CompuCALL line services to bring the in-use level below the parameter value that corresponds.

Verification

If the in-use level is below the parameter value that corresponds to it, tables IBNFEAT and KSETFEAT receive tuples.

Memory requirements

Does not apply

Dump and restore rules

The dump and restore process does not fail if levels of use are higher than the office parameter value that corresponds.

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_NUM_ECM_LINE_SCAI3WC

Parameter name

Maximum Number of Extended Call Management (ECM) Line
Switch-Computer Applications Interface (SCAI) Three-Way Calling

Functional description

CompuCALL services on the SCAI link requires this parameter. An SCAI link is a messaging link between the DMS switch of an operating company and a host computer of the subscriber. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the maximum number of ECM line services in a DMS-100 switch. A CompuCALL application requires this parameter to perform Add Party, Conference Party, Drop Party, or Transfer Party services. The CompuCALL application performs these services on a MDC or RES line.

Set this parameter before you enter the SCAI3WC subservice in table SCAIPROF.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

Dependencies

This parameter affects the maximum number of allowed line entries. The lines are entered with the ECM line suboption Conf_Xfer in tables IBNFEAT and KSETFEAT.

Consequences

If you lower this parameter value below the usage level that corresponds, service continues to current lines. It is not possible to provision new

MAX_NUM_ECM_LINE_SCAI3WC (end)

CompuCALL ECM line services until some CompuCALL line services are cancelled. Cancel some CompuCALL line services to bring the in-use level below the parameter value that corresponds.

Verification

If the in-use level is below the parameter value that corresponds, tables IBNFEAT and KSETFEAT receive tuples.

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_NUM_ECM_LINE_SCAICC

Parameter name

Maximum Number of Extended Call Management Line SCAI Call Control

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link requires this parameter. An SCAI link is a messaging link between the DMS-100 switch of an operating company, and the host computer of the client. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the maximum in-use levels for CompuCALL SCAI call control (SCAICC) extended call management (ECM) line services. This parameter specifies the maximum number of ECM line services that can be provisioned through SERVORD. The link-in-use levels determine the value entered at the ECM line option SCAICC through SERVORD.

Rules in provisioning

Nortel personnel must set this parameter.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this office parameter for CompuCALL pricing control. Nortel must set the value of this parameter for each office in consultation with the operating company. There is no recommended value.

Activation

Immediate

Dependencies

This parameter affects the number number of line entries allowed through SERVORD with the ECM line option SCAICC.

Parameter MAX_NUM_ECM_SVC in table OFCOPT specifies the maximum number of link sets provisioned. Nortel determines the value of the parameter MAX_NUM_ECM_SVC.

MAX_NUM_ECM_LINE_SCAICC (end)

Consequences

If this parameter value is less than the usage level that corresponds, service maintains to current lines. It is not possible to provision new CompuCALL ECM line services until some CompuCALL line services are cancelled. Cancel some CompuCALL line services to bring the in-use level below the parameter value that corresponds.

Verification

If the CompuCALL in-use levels and link-use levels are below the parameter values that corresponds, tables IBNFEAT and KSETFEAT receive tuples.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA006**

This parameter was introduced in NA006.

MAX_NUM_ECM_LINE_SCAIMWT

Parameter name

Maximum Number of Extended Call Management (ECM) Line Switch-Applications Interface (SCAI) Message Waiting

Functional description

Services provided by CompuCALL on the SCAI link require this parameter. An SCAI link is a messaging link between the DMS-100 switch of an operating company, and the host computer of a subscriber. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the maximum number of SCAI Message Waiting services that can be provisioned in a DMS-100 switch. This ECM line service requires this parameter on a MDC or RES line.

Set this parameter before you enter the SCAIMWT subservice in table SCAIPROF.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

Dependencies

This parameter affects the number of line entries allowed in tables IBNFEAT and KSETFEAT. The tables are entered with the ECM line suboption Msg_Wait.

Consequences

If you lower this parameter value below the usage level that corresponds, service continues to current lines. It is not possible to provision new CompuCALL ECM line services until some CompuCALL line services are

MAX_NUM_ECM_LINE_SCAIMWT (end)

cancelled. Cancel some CompuCALL line services to bring the in-use level below the parameter value that corresponds.

Verification

If the in-use level is less than the parameter value that corresponds. Tables IBNFEAT and KSETFEAT receive tuples.

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_NUM_ECM_RESEVENT

Parameter name

Maximum Number of Extended Call Management (ECM) Residential Call Events (RESEVENT)

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link requires this parameter. An SCAI link is a messaging link between the DMS-100 switch of an operating company, and the host computer of the subscriber. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the CompuCALL maximum in-use levels for the RESEVENT category. CompuCALL applications that associate a RES line to a session to receive call events for that line require this parameter.

Set this parameter before you enter the RESEVENT subservice in table SCAIPROF.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

Dependencies

Tables SCAICOMS and SCAIPROF define the number of linksets and MDC CompuCALL service categories. The MDC CompuCALL service categories are: RESEVENT, CALLINIT, SCAI3WC, SCAIMWTI, and DNQUERY.

Consequences

If you lower this parameter value below the usage level that corresponds, service continues to current SCAI groups. It is not possible to provision new CompuCALL ECM line services until some CompuCALL line services are

MAX_NUM_ECM_RESEVENT (end)

cancelled. Cancel some CompuCALL line services to bring the in-use level below the parameter value that corresponds.

Verification

If the CompuCALL in-use levels and link-use levels are below the parameter values that correspond. Tables SCAICOMS and SCAIPROF receives tuples.

Memory requirements

Does not apply

Dump and restore rules

The dump and restore process does not fail if use levels are higher than the office parameter value that corresponds.

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_NUM_ECM_RESOURCE

Parameter name

Maximum Number of Extended Call Management Resources

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link require this parameter. A SCAI link is a messaging link between the DMS-100 switch of an operating company and a host computer of the subscriber. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the CompuCALL maximum in-use levels for the RESOURCE category.

Rules in provisioning

Nortel personnel must set this parameter.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this office parameter for CompuCALL pricing control. Nortel must set the value of this parameter for each office in consultation with the operating company. There is no recommended value.

Activation

Immediate

Dependencies

Parameter MAX_NUM_ECM_SVC in table OFCOPT specifies the maximum number of linksets for CompuCALL. Nortel determines the value of this parameter.

Consequences

If you lower this parameter value below the usage level that corresponds, service continues to SCAI groups. It is not possible to provision new CompuCALL ECM line services until some CompuCALL line services are

MAX_NUM_ECM_RESOURCE (end)

cancelled. Cancel some CompuCALL line services to bring the in-use level below the parameter value that corresponds.

Verification

If the CompuCALL in-use levels and link-use levels are below the parameter values that corresponds. Tables SCAICOMS and SCAIPROF receives tuples.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS36**

The parameter description was moved from OFCSTD to OFCOPT in BCS36.

BCS35

This parameter was introduced in BCS35.

MAX_NUM_ECM_ROUTING

Parameter name

Maximum Number of Extended Call Management ROUTINGs

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link require this parameter. An SCAI link links a DMS-100 switch of an operating company and a host computer of a subscriber. The SCAI link acts as a messaging link. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the CompuCALL maximum in-use levels for the ROUTING category. This category involves CompuCALL services related to custom call routing.

Rules in provisioning

Nortel personnel must set this parameter.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this parameter for CompuCALL pricing control. Nortel must set the value of this parameter for each office in consultation with the operating company. There is no recommended value.

Activation

Immediate

Dependencies

Parameter MAX_NUM_ECM_SVC in table OFCOPT defines the maximum number of link sets provisioned for CompuCALL. Nortel determines the value of this parameter.

Consequences

If this parameter value is less than the level of use that corresponds, service continues to current SCAI groups. If the parameter value increases beyond the

MAX_NUM_ECM_ROUTING (end)

level that corresponds, the system cannot provide new CompuCALL services. The in-use levels and link-use levels must go below this level for the system to provide new CompuCALL services. Cancel some CompuCALL services to lower the in-use level.

Verification

The CompuCALL in-use and link-use levels can go below the parameter values that correspond. When this decrease occurs, the user can enter tuples in tables SCAICOMS and SCAIPROF.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS36**

The parameter description was moved from OFCSTD to OFCOPT in BCS36.

BCS35

This parameter was introduced in BCS35.

MAX_NUM_ECM_SCAI3WC

Parameter name

Maximum Number of Extended Call Management (ECM) Switch Computer Application Interface Three-Way Calling (SCAI3WC)

Functional description

CompuCALL services on the switch-computer application interface (SCAI) link require this parameter. A SCAI link links a DMS-100 switch of the operating company and the host computer of the subscriber. The SCAI link acts as a messaging link. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the CompuCALL maximum in-use levels for the SCAI3WC category.

A CompuCALL application requires this parameter on a Meridian Digital Centrex (MDC) or Residential Enhanced Services (RES) line, in order to perform:

- Add Party
- Conference Party
- Drop Party
- Transfer Party

Set this parameter before you enter the SCAI3WC subservice in table SCAIPROF.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

MAX_NUM_ECM_SCAI3WC (end)

Dependencies

Tables SCAICOMS and SCAIPROF define the number of linksets and MDC CompuCALL service categories.

The CompuCALL service categories are:

- RESEVENT
- CALLINIT
- SCAL3WC
- SCAIMWTI
- DNQUERY

Consequences

If this parameter value is less than the level of use that corresponds, service continues to current SCAI groups. If the parameter value increases beyond the level that corresponds, the system cannot provide new CompuCALL services. The in-use levels and link-use levels must go below this level for the system to provide new CompuCALL services. Cancel some CompuCALL services to lower the in-use level.

Verification

The CompuCALL in-use levels and link-use levels can go below the parameter values that correspond. When this decrease occurs, the user can enter tuples in tables SCAICOMS and SCAIPROF.

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_NUM_ECM_SCAICC

Parameter name

Maximum Number of Extended Call Management SCAI Call Control

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link require this parameter. An SCAI link links a DMS-100 switch of an operating company and the host computer of the subscriber. The SCAL link acts as a messaging link. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the maximum in-use levels for CompuCALL SCAI call control (SCAICC) messages. This parameter represents the maximum number of message categories in a DMS-100 switch. Table SCAISSRV provides these categories based on link-in-use levels.

Rules in provisioning

Nortel personnel must set this parameter.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this office parameter for CompuCALL pricing control. Nortel must set the value of this parameter for each office in consultation with the operating company. There is no recommended value.

Activation

Immediate

Dependencies

Tables SCAICOMS and SCAIPROF define the number of linksets and the number of CompuCALL SCAICC service categories on a linkset.

Parameter MAX_NUM_ECM_SVC defines the maximum number of linksets provided for CompuCALL. Nortel determines the value of this parameter.

MAX_NUM_ECM_SCAICC (end)

Consequences

If this parameter value is less than the level of use that corresponds, service continues to current SCAI groups. If the parameter value increases beyond the level that corresponds, the system cannot provide new CompuCALL services. The in-use levels and link-use levels must go below this level for the system to provide new CompuCALL services. Cancel some CompuCALL services to lower the in-use level.

Verification

The CompuCALL in-use levels and link-use levels can go below the parameter values that correspond. When this decrease occurs, the user can enter tuples in tables SCAICOMS and SCAIPROF.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA006**

This parameter was introduced in NA006.

MAX_NUM_ECM_SCAIMWTI

Parameter name

Maximum Number of Extended Call Management (ECM) Switch Computer Application Interface (SCAI) Message Waiting Indication (MWTI)

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link require this parameter. A SCAI link links a DMS-100 switch of an operating company and a host computer of the subscriber. The SCAI link acts as a messaging link. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the CompuCALL maximum in-use levels for the SCAIMWTI category. A CompuCALL application can be present on a Meridian Digital Centrex (MDC) or Residential Enhanced Services (RES) line. A CompuCALL application that requests SCAI message waiting messages for an MDC or RES line requires this parameter.

Set this parameter before you enter the SCAIMWTI subservice in table SCAIPROF.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

Dependencies

Tables SCAICOMS and SCAIPROF define the number of linksets and MDC CompuCALL service categories.

MAX_NUM_ECM_SCAIMWTI (end)

The MDC CompuCALL service categories are:

- RESEVENT
- CALLINIT
- SCAI3WC
- SCAIMWTI
- DNQUERY

Consequences

If this parameter value is less than the level of the use that corresponds, service continues to current SCAI groups. If the parameter value increases beyond the level that corresponds, the system cannot provide new CompuCALL services. The in-use levels and link-use levels must go below this level for the system to provide new CompuCALL services. Cancel some CompuCALL services to lower the in-use level.

Verification

The CompuCALL in-use levels and link-use levels can go below the parameter values that correspond. When this decrease occurs, the user can enter tuples in tables SCAICOMS and SCAIPROF.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_NUM_ECM_SVC

Parameter name

Maximum Number of Extended Call Management Switched Virtual Circuits

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link require this parameter. A SCAI link links a DMS-100 switch of an operating company and a host computer of the subscriber. The SCAI link acts as a messaging link. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the maximum number of switched virtual circuits (SVC) allowed for CompuCALL services.

Rules in provisioning

Nortel personnel set this parameter.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this parameter for CompuCALL pricing control. Nortel must set the value of this parameter each office in consultation with the operating company. There is no recommended value.

Activation

Immediate

Dependencies

The following parameters, located in table OFCOPT, determine CompuCALL in-use levels:

- MAX_NUM_ECM_ACDEVENT
- MAX_NUM_ECM_CTXEVENT
- MAX_NUM_ECM_RESOURCE
- MAX_NUM_ECM_ROUTING

MAX_NUM_ECM_SVC (end)

- MAX_NUM_ECM_TPCC
- MAX_NUM_ECM_TPAC

Nortel must set these parameters.

Consequences

If this parameter value is less than the level of use that corresponds, service continues to current SCAI groups. If the parameter value increases beyond the level that corresponds, the system cannot provide new CompuCALL services. The in-use levels and link-use levels must go below this level for the system to provide new CompuCALL services. Cancel some CompuCALL services to lower the in-use level.

Verification

The CompuCALL in-use levels and link-use levels can go below the parameter values that correspond. When this decrease occurs, the user can enter tuples in tables SCAICOMS and SCAIPROF.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS36**

The parameter description was moved from OFCSTD to OFCOPT in BCS36.

BCS35

This parameter was introduced in BCS35.

MAX_NUM_ECM_TPAC

Parameter name

Maximum Number of Enhanced Call Management Third Party Agent Control

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link require this parameter. A SCAI link links a DMS-100 switch of an operating company and a host computer of the subscriber. The SCAI link acts as a messaging link. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the CompuCALL maximum in-use levels for the TPAC category. This category involves CompuCALL services related to third-party agent control.

Rules in provisioning

Nortel personnel must set this parameter.

The parameter value must support the required TPAC in-use level. This is determined by the number of links in linksets provisioned for TPAC service minus the number of linksets that have more than one link.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this office parameter for CompuCALL pricing control. Nortel must set the value of this parameter for each office in consultation with the customer. There is no recommended value.

Activation

Immediate

Dependencies

Parameter MAX_NUM_ECM_SVC in table OFCOPT determines the maximum number of link sets provisioned for CompuCALL. Nortel also determines the value of this parameter.

MAX_NUM_ECM_TPAC (end)

Consequences

If this parameter value is less than the level of use that corresponds, service continues to current SCAI groups. If the parameter value increases beyond the level that corresponds, the system cannot provide new CompuCALL services. The in-use levels and link-use levels must go below this level for the system to provide new CompuCALL services. Cancel some CompuCALL services to lower the in-use level.

Verification

The CompuCALL in-use levels and link-use levels can go below the parameter values that correspond. When this decrease occurs, the user can enter tuples in tables SCAICOMS and SCAIPROF.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS36**

This parameter was introduced in BCS36.

MAX_NUM_ECM_TPCC

Parameter name

Maximum Number of Extended Call Management Third-party Call Control

Functional description

CompuCALL services on the switch-computer applications interface (SCAI) link require this parameter. A SCAI link links a DMS-100 switch of an operating company and a host computer of the subscriber. The SCAI link acts as a messaging link. CompuCALL uses SCAI links to provide coordinated, DMS-100 switch-based services to applications on the host computer of the subscriber.

This parameter specifies the CompuCALL maximum in-use levels for the TPCC category. This category involves CompuCALL services related to third-party call control.

Rules in provisioning

Nortel personnel must set this parameter.

Range information

Minimum	Maximum	Default
0	32767	0

Nortel uses this parameter for CompuCALL pricing control. Nortel must set the value of this parameter for each office in consultation with the customer. There is no recommended value.

Activation

Immediate

Dependencies

Parameter MAX_NUM_ECM_SVC in table OFCOPT specifies the maximum number of link sets provisioned for CompuCALL. Nortel also determines the value of this parameter.

Consequences

If this parameter value is less than the level of use that corresponds, service continues to current SCAI groups. If the parameter value increases beyond the

MAX_NUM_ECM_TPCC (end)

level that corresponds, the system cannot provide new CompuCALL services. The in-use levels and link-use levels must go below this level for the system to provide new CompuCALL services. Cancel some CompuCALL services to lower the in-use level.

Verification

The CompuCALL in-use levels and link-use levels can go below the parameter values that correspond. When this decrease occurs, the user can enter tuples in tables SCAICOMS and SCAIPROF.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS36**

The parameter description was moved from OFCSTD to OFCOPT in BCS36.

BCS35

This parameter was introduced in BCS35.

MAX_NUM_ECM_TPQC

Parameter name

Maximum Number Enhanced Call Management (ECM) Third-Party Queue Control (TPQC)

Functional description

This parameter governs the maximum number of message set categories from table SCAISSRV that can be provisioned in a DMS-100 switch based on the link in-use levels.

Provisioning rules

Not applicable.

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate. No restart is required if the parameter values are changed.

Dependencies

The number of linksets and the number of unique CompuCALL service categories that can be used on a particular linkset, defined by tables SCAICOMS and SCAIPROF, are affected by the new parameters.

Consequences

The desired number of links and the selection of CompuCALL service categories to be used on the linksets determine the office parameter values. The in-use levels are generally below the corresponding office parameter values.

Once CompuCALL services are provisioned, any given level is allowed to fall below the corresponding office parameter value. If any office parameter value is lowered below the corresponding usage level, service is maintained to existing SCAI groups. However, no new CompuCALL services can be provisioned until some CompuCALL service are cancelled. Cancelling services brings the in-use levels for categories and link-use level for CompuCALL below the corresponding office parameter values.

MAX_NUM_ECM_TPQC (end)

During a dump and restore process, the CompuCALL pricing control procedures are active, but the dump and restore process does not fail if the usage levels are higher than the corresponding office parameter values.

Verification

Activity verification is performed by the successful entry of tuples into tables SCAICOMS and SCAIPROF, at which time the in-use levels and line-use level are below the corresponding parameter values.

Memory requirements

Not applicable.

Dump and restore rules

None.

Parameter history**NA008**

This release introduces this parameter.

MAX_NUM_RES_ASSOC

Parameter name

Maximum Number of Residential Enhanced Services (RES) Associations

Functional description

This parameter is for use with services CompuCALL provides on the switch-computer applications interface (SCAI) link. A SCAI link is a messaging link. The link is between the DMS-100 switch of an operating company and host computer of a customer. The CompuCALL uses SCAI links to provide coordinated DMS-100 switch services to applications on the host computer of the customer.

This parameter specifies the CompuCALL maximum number of RES and line associations in SCAI sessions. A CompuCaLL application requires this parameter to associate a RES line, receive call events or message waiting messages for the line.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter value is lowered below the associated use level, service maintains to current SCAI groups. The system must cancel some CompuCALL services before provisioning new CompuCALL services. The cancelation brings the in-use level and link-use level below the associated parameter value.

MAX_NUM_RES_ASSOC (end)

Verification

Tuples in tables SCAICOMS and SCAIPROF are correctly entered if the conditions that follow apply:

- this parameter is operational
- the CompuCALL in-use levels and link-use levels are below the associated parameter values

Memory requirements

This parameter does not impact memory.

Dump and restore rules

The CompuCALL pricing control procedures are active during the dump and restore process. The dump and restore process does not fail if use levels are higher than the associated office parameter value.

Parameter history**NA005**

This parameter was introduced in NA005.

MAX_PDATA_LINES

Parameter name

Maximum Plain Old Telephone Service Data Lines

Functional description

Plain-Old Telephone Service (POTS) data lines are entered in table KSETLINE. This parameter indicates the maximum number of POTS data lines in table KSETLINE in 100-line increments.

An example of this parameter follows. If 500 is the maximum number of POTS data units required to datafill, the parameter has the value

$$500 \div 100 = 5$$

The number of POTS data lines assigned in table KSETLINE can equal to the value of this option multiplied by 100. When this condition occurs the MAP (maintenance and administration position) terminal displays the following message:

MAXIMUM NUMBER OF POTS DATA LINES REACHED

Rules in provisioning

The value of this parameter is the maximum number of POTS data lines required for the engineering interval + 99 divided by 100.

In theory, the maximum value for this option is 1000. In practice, the maximum value is as follows.

If the switching unit is an NT40 or SuperNode, the maximum value for this option cannot exceed:

300 – (the value set by Software Optionality Control (SOC) MDC00058/ 100 for Meridian Digital Centrex (MDC) lines +the value of option MAX_DATA_LINES+ the value of option MAX_RES_LINES)

MAX_PDATA_LINES (end)

Range information

Range information is as follows:

Minimum	Maximum	Default
0	1000	0

Activation

Immediate

Dependencies

At extension time, the maximum number of POTS data lines required for the engineering interval increase. When this correlation occurs, you must increase the value of this option.

See office parameters MAX_DATA_LINES, MAX_RES_LINES, and SOC option MDC00058. These two parameters and SOC option MDC00058 indicate the maximum number of IBN lines, IBN Business Sets, IBN Data Lines, and residential lines you can assign.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**NA007**

References to office parameter MAX_IBN_LINES were replaced by SOC MDC00058.

BCS18

This parameter was introduced in BCS18.

MAX_PRI_LINKS

Parameter name

Maximum Primary Rate Interface Links

Functional description

This parameter specifies the maximum number of primary rate interface (PRI) links that the operating company can datafill in table TRKSGRP. This datafill occurs when Per Link Pricing is in effect.

This parameter requires the installation of feature package NTX790AC (ISDN - Primary Rate Access Base) for operation.

Rules in provisioning

Set the parameter value to equal the number of PRI links present in the switch. Set the parameter to this value if the PRI package installation is for each link.

Operating companies that do not use PRI package NTX790AC must leave this parameter set to the default value 0 (zero). This value deactivates the feature.

Range information

Minimum	Maximum	Default
0	8191	0

Activation

Immediate

Dependencies

This parameter affects table TRKSGRP.

Consequences

The value of this parameter is not used if the office parameter PRI_LINK_PRICING is set to N (no).

Verification

To verify that this parameter is operational use the CI command QPRILINKS at the MAP (maintenance and administration position) display.

MAX_PRI_LINKS (end)

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS33.

MAX_RCUS_PER_SMU

Parameter name

Maximum Remote Carrier DMS-1 Urbans Per Subscriber Carrier Module

Functional description

A local or SL100 switching unit requires this option parameter. This parameter specifies the maximum number of Remote Carrier DMS-1 urbans (RCU) on the P-side of a Subscriber Carrier Module (SMU).

Rules in provisioning

Specify the number of RCUs that an SMU can support.

If this feature is not required, leave the value at the default 10.

Range information

Minimum	Maximum	Default
0	10	10

Activation

Immediate

Dependencies

Does not apply

Consequences

If you do not specify enough units, you cannot enter datafill for additional RCUs.

The value of this parameter must be larger than the number of current RCUs of an SMU. If an attempt to set a lower value occurs, the systems sends the following error message:

```
ALREADY N RCUS ON SMU Y
```

The number of current RCUs is N and the SMU number is Y.

MAX_RCUS_PER_SMU (end)

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS24.

MAX_RES_LINES

Parameter name

Maximum Number of Residential Enhanced Services Lines

Functional description

Switching units with the Residential Enhanced Services feature require this parameter. The parameter specifies, in 100-line increments, the maximum number of residential (RES) lines you can assign in table IBNLINES.

The maximum number of RES lines equals 100 times the value of this parameter subtract 1. For example, if the value of this parameter is 5, the maximum number of RES lines equals 499.

If the number of RES lines exceeds the value of this parameter the system does not add any new entries. The MAP terminal displays the following message:

MAXIMUM NUMBER OF RES LINES HAS BEEN REACHED

Rules in provisioning

The value of this parameter must equal the maximum number of RES lines required for the engineering interval. Round off the value of this parameter to the next highest 100 and divide the number by 100.

If the Residential Enhanced Services feature is not provided, leave the value of this parameter at the default value 1.

If the switching unit is an NT40, the maximum value for this parameter cannot exceed the following value:

300 – (the value of OFCOPT parameter MAX_DATA_LINES +
the value of OFCOPT parameter MAX_PDATA_LINES + the value
set by Software Optionality Control (SOC) MDC00058/100)

If the switching unit is a SuperNode, the maximum value for this parameter cannot exceed the following value:

1500 – (the value of OFCOPT parameter MAX_DATA_LINES +
the value of OFCOPT parameter MAX_PDATA_LINES + the value of
set by SOC MDC00058/100)

MAX_RES_LINES (continued)

Note: This computed upper limit is a theoretical maximum number of lines. It does not reflect sizing of trunks for line to trunk and trunk to line traffic.

The maximum combined value for MAX_DATA_LINES + MAX_PDATA_LINES + SOC MDC00058/100 is 500.

The maximum combined value for MAX_PDATA_LINES + MAX_DATA_LINES is 300.

The algorithm above also supports an increase in RES line capacity for offices with both Meridian Digital Centrex (MDC) and RES.

To deactivate this feature, set the value of this parameter to 0 (zero). If RES lines are already present in table IBNLINES, the system does not remove or restrict the lines. The parameter value 0 (zero) prevents the addition of any more RES lines.

Range information

Minimum	Maximum	Default
0	1500	1

Activation

Immediate

Dependencies

If the number of residential lines required for the engineering interval exceeds 100 times the current parameter value, increase the parameter value.

The RES lines have a line class code of RES in table IBNLINES.

Consequences

If the value of this parameter is too low, the number of RES lines available for assignment is too low.

If the value of this parameter is too high, the RES lines can exceed the Integrated Business Network (IBN) resource constraints.

MAX_RES_LINES (end)

Verification

To verify that this parameter works, add RES lines to table IBNLINES to the maximum value this parameter indicates. You cannot assign more RES line at this point.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

NA014

RES line capacity increased to 150,000.

NA007

References to office parameter MAX_IBN_LINES were replaced by SOC MDC00058.

BCS34

The RES line capacity increased in BCS34.

BCS25

This parameter was introduced in BCS25.

MAX_TRKMEM_PER_SWITCH

Parameter name

Maximum Trunk Members Per Switch

Functional description

A Meridian Supernode switch requires this parameter. This parameter controls the maximum number of trunk members allowed on a switching unit.

Rules in provisioning

Specify the maximum number of trunk members, when the number of member is less than 60 000.

If you leave the value of this parameter at the default of 0 (zero), the trunk member limit is 60 000.

Northern Telecom must enter the option to configure a software load for a switching unit.

Range information

Minimum	Maximum	Default
0	60000	0

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

MAX_TRKMEM_PER_SWITCH (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS28.

MODEM_DIALBACK_CONTROL

Parameter name

Modem Automatic Dialback Control

Functional description

This option indicates when the system allows the automatic dialback feature for modems.

This feature now supports the Companion CTS212AH, the Motorola UDS 224 AT/D, and the Rixon R212A smart modems.

The dialback feature requires enhanced password control to function.

The incoming call, and the dialback feature use different lines. You must connect a minimum of two modems to the switch.

The LOGINCONTROL command indicates when a modem to use an answer modem or a dialout modem when the dialback feature is active.

Rules in provisioning

Set the value of this parameter to Y (yes) when the switching unit has this feature. Leave the value at the default of N (no), if the switching unit does not have this feature.

Range information

Minimum	Maximum	Default
		N

Activation

N to Y - immediate

Y to N - new load

Dependencies

The MODEM field from table TERMDEV indicates the type of modem connected to the port. The modem types are NONE (no modem), DBANS (dialback answer only), CTS, UDS, or RIXON.

MODEM_DIALBACK_CONTROL (end)

Table DIALBACK stores the data that relates to the DIALBACK.

Consequences

For telephone lines that connect to modems, do not associate the call waiting feature. Call waiting produces an audible tone that the modem regards as noise. Modems disconnected in this way can be hung. To make the modems available, BSY and RTS.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

BCS18

This parameter was introduced in BCS18.

MONITOR_TABLE_ACCESS

Parameter name

Monitor Table Access

Functional description

This parameter indicates when the switching unit has the Security Table Enhancement feature.

Rules in provisioning

Set this parameter to Y (yes) when the switching unit has the Enhancement feature. Set this parameter to N (no), when the switching unit does not have this feature.

To activate or deactivate this feature, the operating company changes the value of parameter TABLE_ACCESS_CONTROL in table OFCVAR.

To activate or deactivate this feature the operating company changes the value of fields VALLACC and/or DENACC in table CUSTPROT.

Only Northern Telecom can make changes to this option.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

MONITOR_TABLE_ACCESS (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

CSP04

The restart requirement was removed in CSP04.

BCS18

This parameter was introduced in BCS18.

N5_ANSWER_PROP_DELAY

Parameter name

CCITT No. 5 Trunks Answer Propagation Delay

Functional description

This parameter activates answer signal delay timing on Consultative Committee on International Telegraphy and Telephony No. 5 (CCITT No. 5) trunks on the DMS-300 switch.

Rules in provisioning

When this parameter is set to Y (Yes), a delay in generation of the answer signal occurs. The delay in answer signal generation occurs from the international network into the national network and the beginning of charging of the call. The 90 ms delay ensures that the signal is an answer and not a long burst of noise. This feature does not affect calls that terminate in the national network.

If this parameter is set to N (no), the call timing for all types of calls does not change.

The operating company must not change this office parameter. This parameter is set when Northern Telecom engineers the office. Only a Northern Telecom representative can change this parameter. The operating company requests the parameter change.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

N5_ANSWER_PROP_DELAY (end)

Verification

You can verify this parameter with equipment that can record incoming CCITT No. 5 answer signals and outgoing answer signals only. This equipment must be able to measure time in milliseconds.

Memory requirements

Each unit requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter History

This parameter was introduced in BCS32.

NETWORK_ACTIVE

Parameter name

Network Active

Functional description

This parameter specifies the type of network in the office.

This parameter determines the network that handles call processing during the change from a junctored network (JNET) to an enhanced network (ENET).

Refer to parameter ENET_AVAILABLE in table OFCOPT.

ENET commissioning requires both parameters NETWORK_ACTIVE and ENET_AVAILABLE.

In offices with software release NA012 and up, office network type EXT_ENET_NETWORK is available. Office network type EXT_ENET_NETWORK is a combination of the ENET and an external fabric. If the network type is set to EXTENET and the MSH DRU is in the office software load, then external fabric calls, calls on the internal fabric (ENET), and calls between the two fabric types are supported.

Note 1: If the office software load does not include the multi-services hub (MSH) development release unit (DRU), office parameter NETWORK_ACTIVE cannot be set to EXTENET.

Note 2: The requirement of the office software including the MSH DRU applies to all Succession network solutions that use the network type EXT_ENET_NETWORK. This requirement does not apply to JNET or ENET networks.

Rules in provisioning

For JNET call processing, set the value of this parameter to JNET.

For ENET call processing, set the value of this parameter to ENET.

For the combination ENET and an external fabric, set the value of this parameter to EXTENET.

NETWORK_ACTIVE (continued)

Range information

Minimum	Maximum	Default
ENET, JNET, EXTENET	ENET, JNET, EXTENET	JNET

Activation

Cold Restart

Dependencies

For either network type ENET or EXTENET to handle call processing, office parameter ENET_AVAILABLE in table OFCENG must be set to Y (yes).

Consequences

If this parameter is set to ENET or EXTENET when office parameter ENET_AVAILABLE is set to N (no), the system rejects the tuple. The following error message appears on the MAP display:

```
ERROR : Network is not available to activate
```

If the MSH DRU is in the office software load and office parameter NETWORK_ACTIVE is set to EXTENET, trunk calls on the external fabric as well as those on the existing fabric (ENET calls) will complete.

Verification

To verify that office network type is set to EXTENET, make a call using the agents connected to external hosted peripherals and verify that the call completes.

Memory requirements

There are no additional memory requirements.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

NA012

Network type EXTENET was added.

NETWORK_ACTIVE (end)

BCS31

This parameter was introduced in BCS31.

NETWORK_ICM_ACTIVE

Parameter name

Network Intelligent Call Management Active

Functional description

Table OFCOPT adds tuple NETWORK_ICM_ACTIVE to indicate office-wide subscription to Network Intelligent Call Management (NICM).

Provisioning rules

The default value for NETWORK_ICM_ACTIVE is no. The operating company can activate NICM at the office level by setting the tuple to yes.

Range information

Minimum	Maximum	Default
		N

Activation

option NETWORK_ICM_ACTIVE indicates that the office subscribes to the NICM functionality. The operating company turns on the NICM functionality.

Dependencies

Not applicable

Consequences

NICM functionality is available only if NETWORK_ICM_ACTIVE is turned on and end-user subscription exists.

Verification

If the office has NICM functionality on, the tuple has NETWORK_ICM_ACTIVE set to Y.

Memory requirements

NETWORK_ICM_ACTIVE is a bool contained in 1 Word (2 bytes).

Dump and restore rules

None.

NETWORK_ICM_ACTIVE (end)

Parameter history

This option was introduced in NA010. This option adds tuple NETWORK_ICM_ACTIVE for feature Network Intelligent Call Management (AU2799).

NOISE_MEAS

Parameter name

Noise Measurement

Functional description

This parameter specifies if the Trunk Test Positions (TTPs) have the Noise Measurement feature.

Rules in provisioning

Set the value of this parameter to Y (yes) for switching units with the TTP Transmission Measurement or International TTP software.

Leave the value of this parameter at the default of N (no). The default value allows for the switching of units without the TTP Transmission Measurement or International TTP software.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

NOISE_MEAS (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore procedures.

Parameter history

CSP02

Warm restart activation requirement is removed in CSP02.

NORTHAM_TOLLFREE_VARIANT

Parameter name

North American Toll Free Variant

Functional description

This parameter specifies the Toll Free Service Variant initialized on a combined Product Computing-Module Load (PCL). The default value for this parameter is NIL_SERVICE. You can change this value one time. This value must be a non-NIL_SERVICE value before you release a load to the customer. The customer must not change this parameter. The system does not allow further changes to this parameter requested through table editor commands

Rules in provisioning

You must set this parameter to CANADIAN_SERVICE and US_SERVICE on a new commissioned office, before release to the customer.

Set the value of this parameter to CANADIAN_SERVICE to define 800P toll free service and activate 800 End Office Display (800EOD).

Set the value of this parameter to US_SERVICE to define E800 toll free service.

Set the value of this parameter to NIL_SERVICE when the feature is not activated. Only use this value for NORTEL use only loads.

You can change the value of this parameter one time only. This change can occur between NIL_SERVICE and CANADIAN_SERVICE or between NIL_SERVICE and US_SERVICE. This change cannot occur between the two variants.

A one night process (ONP) from a NA004 or NA005 load with either toll free variant active can occur. This event results in NORTHERN_TOLLFREE_VARIANT being automatically set to the correct value.

Range information

Minimum	Maximum	Default
		NIL_SERVICE

NORTHAM_TOLLFREE_VARIANT (continued)

Activation

The user can change this parameter directly. This parameter does not have restart requirements. You can change NA_TOLL_FREE_TYPE one time only. This change can occur between NIL_SERVICE and CANADIAN_SERVICE or between NIL_SERVICE and US_SERVICE, This change cannot occur between the two variants.

Dependencies

You must set this parameter to US_SERVICE or CANADIAN_SERVICE before you attempt to add any toll free datafill to the following tables:

- HNPACONT, STDPRTCT, NSCDEFS, NSCSCRN - NSC selector and NSC index
- C7LOCSSN - Subsystem Name for E800 or 800P
- TRKGRP - chgnum option for two-way, incoming and outgoing intertoll trunks (present in Canada only)
- You cannot add KSETLINE, RESOFC (fields NTS_CID and NTS_CNID), IBNLINES - 800EOD line options (present in Canada only)
- You cannot add SSPTKINF - 800 options and carried ID options (present in Canada only)
- NSCCARR - table used for Canada only

The user can change the parameter to US_SERVICE. In this instance the system forces the office parameters SOUTHBOUND (table OFCENG) and CREATE_PARTIAL_800_AMA (table OFCVAR) to the OFF state. The system does not allow changes. The system does not allow changes to table NSCCARR when the user sets the parameter to CANADIAN_SERVICE.

Consequences

If the parameter is not provisioned, you cannot add toll free translations datafill to the switch. You cannot datafill 800 End Office Display line options, and Toll Free Service functionality is not activated.

Verification

To verify the value of the parameter, check table OPCOPT.

Memory requirements

This parameter does not impact memory.

NORTHAM_TOLLFREE_VARIANT (end)

Dump and restore rules

The system defines the value as NIL_SERVICE at initial program load (IPL). During a one night process (ONP) you can restore the parameter on the inactive side of a switch. During a restore, the system initializes the correct toll free service variant if the value restored is not NIL_SERVICE.

An ONP from a NA004 or NA005 load can have either toll free variant active. If this condition occurs, A NORTHAM_TOLLFREE_VARIANT is automatically set to the correct value.

Parameter history

NA006

This parameter was created in NA006.

NRS_MP

Parameter name

Network Resource Selector Modem Pooling

Functional description

This parameter indicates when the switching unit has the modem pooling subset of the DATAPATH feature.

Rules in provisioning

Set the value of this parameter to Y (yes) for switching units with the DATAPATH - Modem Pooling software.

Leave the value of this parameter at the default of N (no) for switching units that do not have this feature.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

When the parameter is set to Y, the system activates the Modem Pooling feature. The system can place entries in the modem pool tables, RESINV, RESGRP, and RESMEM when this feature is active.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

NRS_MP (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter History

This parameter was introduced in BCS14.

NRTEST

Parameter name

Noise and Ringing Supervision Test

Functional description

All local switching units require this parameter. This parameter indicates when the noise and ringing supervision test short and extended line diagnostics are provided.

The noise test checks the weighted noise and notch noise in the line card.

The ringing and supervision test checks the operation of the ringing relay in the line card.

The system implements the LTPMAN command TSTRING. The TSTRING command allows the system to ring the line of the subscriber. To use this command set the parameter Y (yes).

Rules in provisioning

Set the value of this parameter to Y, if the Ringing and Supervision Tests are required.

Leave the value of this parameter at the default of N (no) if Ringing and Supervision Tests are not required.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

NRTEST (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

NWM_STR_CTRL

Parameter name

Network Management Selective Trunk Reservation Control

Functional description

A switch with the feature package NTX060AB11 (Network Management [NWM]) or feature package NTX669AA01 (International NWM) requires this parameter.

The NWM is a set of displays and commands. The NWM allows the network manager to supervise and control the flow of traffic through the switch. When the demand for service from the switch exceeds the ability to provide enough trunk groups, use the NWM. Use the NWM to decrease the demand on the overloaded trunk groups and provide improved service.

The STR is a group control observes the occupancy of an outgoing trunk group and applies a filter to the offered traffic. The STR control group applies a filter when the traffic level is high.

Rules in provisioning

Set the value to Y (yes) if the Selective Trunk Reservation (STR) control is required.

If the STR control is not required, leave this parameter value at the default of N (no).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

To enter the STR feature, refer to table PREPLANS.

Consequences

Does not apply

NWM_STR_CTRL (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

OMHISTORYON

Parameter name

Operational Measurements History On

Functional description

This parameter indicates when the switching unit Operational Measurements History Class feature is active or inactive.

Rules in provisioning

To disable parameter OMXFR in table OFCENG, set the OMHISTORY parameter to Y (yes). While the system disables the parameter there will be a 5-min operational measurements (OM) transfer period.

If you leave this parameter at the default of N (no), the OM History Class feature is inactive.

If the switching unit has the Engineering Administration Data Acquisition System (EADAS), leave this parameter at the default value of N.

Range information

Minimum	Maximum	Default
		N

Activation

Warm restart or NORESTARTSWACT (refer to procedure in *NORESTARTSWACT/MTCSWACT User's Guide*, 297-1001-546).

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

OMHISTORYON (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS36

The NORESTARTSWACT activation is added in BCS36.

OMINERLANGS

Parameter name

Operational Measurements in Erlangs

Functional description

A switching unit with international translations requires this parameter. This parameter is for international translations that require the measurement of selected traffic use. This parameter uses deci-erlangs, not CCS (hundred call seconds).

Rules in provisioning

If the value of this parameter remains at the default value of N (no), measurements of traffic use are output in CCS.

If the value of this parameter is set to Y (yes), measurements of selected traffic use are output as deci-erlangs.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

When the value of this parameter is Y, the CI command OMSHOW ACTIVE displays register values in CCS.

Refer to the *Operational Measurements Reference Manual* for a list of the operational measurements output in deci-erlangs.

OMINERLANGS (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

OPTIONAL_SLU_FEATURE

Parameter name

Optional Subscriber Line Usage Feature

Functional description

Use this parameter in a local or combined local/toll switching unit. Use this parameter with the NTX082AA01 (Subscriber Line Measurements) software package. This parameter indicates when the switching unit has the Operational Measurement Data Modification Order or Selectable Subscriber Line Usage Scan Interval feature.

Rules in provisioning

Set the value of this parameter to Y (yes) when optional subscriber line usage (SLU) software is available.

Set the value of this parameter to N (no) if optional SLU software is not available.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Set the values of the following parameters in table OFCVAR, when the optional SLU software is available:

- ENG640M1_SCAN_RATE
- TRA125M1_SCAN_RATE
- TRA250M1_SCAN_RATE
- TRA125M2_SCAN_RATE

Consequences

Does not apply

OPTIONAL_SLU_FEATURE (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

PASSWORD_ENCRYPTED

Parameter name

Password Encrypted

Functional description

The Password Encrypted parameter specifies if the system encrypts user passwords before the system stores the passwords. This parameter is a security feature to guard against illegal access. This parameter makes sure other users cannot read user passwords from a datastore location.

Rules in provisioning

ATTENTION

When the parameter changes from Y (yes) to N (no), the system sets all encrypted passwords to the default password. This action affects automated login systems. The Automated Dialback feature (NTX293AA) must have a value of “Y” to function properly.

If this parameter is set to Y (yes), the system stores user passwords in an encrypted form.

If the parameter is set to N (no), the system stores user passwords as characters.

Password encryption is separate from Enhanced Password Control.

Range information

Minimum	Maximum	Default
		N

PASSWORD_ENCRYPTED (end)

Activation

N to Y—immediate



CAUTION

Consult your next level of support before changing this parameter as follows.

Y to N—change requires a ONP (one night process)

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS16

This parameter was introduced in BCS16.

PI_CALL_TOPO

Parameter name

Progress Indicator Call Topology

Functional description

A Local or SL100 switching unit with feature package NTX750 (ISDN BASIC Access) requires this parameter.

This parameter appears when the switching unit has the Call Progress feature.

This parameter specifies if the network must send the following three Call Topology Progress Indicators (CPI):

- destination address is non-ISDN
- origination address is non-ISDN
- call returned to the ISDN

These three Call-type indicators (PI) provide information. This parameter determines if PI information is required. If PI information is not required, this parameter disables the PI feature.

The PI information feature describes an event that occurs when a call is in progress. The terminal can ignore specified information the terminal receives. The terminal can use the information to notify the user of events that occur during a call. The terminal can update the display when the call goes to treatment. This update indicates to the user the reason the call was lost.

Rules in provisioning

If the value of this parameter is set to Y (yes), the network sends the optional call type PIs.

If the parameter stays at the default value, the network does not send the optional call type PIs.

Range information

Minimum	Maximum	Default
		N

PI_CALL_TOPO (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Refer to OM GROUP CPICG for the operational measurements associated with this feature. Refer to registers DENOTISM, ORNOTISM, and RTRNISM.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS23.

PRI_LINK_PRICING

Parameter name

Primary Rate Interface Link Pricing

Functional description

The Primary Rate Interface Link Pricing parameter specifies if the Per Link Pricing feature applies to primary rate interface (PRI) links. Use this parameter when you install the PRI package, NTX790, in the switch.

Rules in provisioning

The default value for this parameter is N (no). Leave the value of this parameter at the default to deactivate the Per Link Pricing feature. When the Per Link Pricing feature is deactivated, the PRI links can be entered in the switch with no restrictions.

Set this parameter to Y (yes), if the user installed the PRI package on an individual link base.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

When the operating company does not purchased the PRI package on an individual link base. Set this parameter to N . When the operating company purchases the PRI package on an individual link base, the number of PRI links is limited.

Verification

To verify that this parameter functions, use the CI command QPRILINKS at the MAP.

PRI_LINK_PRICING (end)

Memory requirements

Each unit requires 1 word of memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS33.

PTS_RUNNING_EDTK

Parameter name

Per-Trunk Signaling (PTS) Running Event-Driven Call Processing (EDTK)

Functional description

This parameter, in table OFCOPT, is a read-only view of the status of command EDTKONOFF. Use this parameter for PTS signaling on the European Telecommunications Standards Institute (ETSI) Intelligent Network Application Part (INAP) Service Switching Point (SSP).

The EDTKONOFF is a command interpreter (CI) command. The CI command enables and disables EDTK architecture for supported signaling types. To set the EDTKONOFF state for PTS, use the CI command EDTKONOFF. The user cannot manipulate the EDTKONOFF state through table OFCOPT.

This parameter allows the automatic transfer of the EDTKONOFF state for PTS, to a new load, during a One Night Process (ONP).

When EDTKONOFF is set to Y (yes), the value of parameter PTS_RUNNING_EDTK in OFCOPT is set to Y. When EDTKONOFF is set to N (no), the value of PTS_RUNNING_EDTK in table OFCOPT is set to N.

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
		N

Activation

Set the value of this parameter when this parameter is not active.

The value of this parameter reflects the value of EDTKONOFF for PRI, set through EDTKONOFF CI command. The value this parameter cannot be changed.

PTS_RUNNING_EDTK (end)

Dependencies

Does not apply

Consequences

Does not apply

Note: There are no consequences to over- or under-provisioning the value of this parameter. The system reads the provisioning from the value of the Boolean for EDTKONOFF for PRI.

Verification

Does not apply

Memory requirements

This parameter requires 1 bit of memory.

Dump and restore rules

Does not apply

Note: The value of this parameter does not change during dump and restore.

Parameter history

EUR004

This parameter was introduced in design activity AG4628, ETSI INAP CallP Release 2.

QCUST_CMD

Parameter name

QCUST Command

Functional description

Use this parameter to allow customers to use the QCUST command.

Rules in provisioning

When this parameter is set to N (no), and the user enters the QCUST command, the following message appears on a terminal attached to the DMS:

```
*** THIS IS A RESTRICTED COMMAND ***
```

When this parameter is set to Y, the QCUST records appear when the user enters QCUST command.

The Business Network Management-Station Administration (BNM-SA) uses the QCUST command. The setting of the QCUST_CMD parameter does not affect the BNM-SA use of the QCUST command.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

QCUST_CMD (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

BCS31

This parameter was introduced in BCS31.

RLM_INTRA_OPT

Parameter name

Remote Line Module Intraswitch Option

Functional description

A switching unit arranged for remote operation that Intra-RLM Calling (software package NTX024AA01) requires this parameter. This parameter specifies if the switching unit contains the RLM Intraswitch option.

Rules in provisioning

Set the value of this parameter to Y (yes), to activate the RLM Intraswitch option.

Set the value of this parameter at the default of N (no), when you do not require this option.

Range information

Minimum	Maximum	Default
		N

Activation

BUSY (BSY) and RETURN TO SERVICE (RTS) the change. Change the INTRA options in table LMINV.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

RLM_INTRA_OPT (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

SCC2_LOGS

Parameter name

SCC2 Logs

Functional description

This parameter specifies if the Bellcore SCC2 format is available for log output.

Rules in provisioning

When this parameter is set to Y (yes), the SCC2 format is available. The SCC2 format is available to all devices in the LOGDEV table that have field FORMAT set to SCC2.

When this parameter is set to N (no), the SCC2 format is not available on any device.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

SDOC3_ENABLE

Parameter name

Selective Dynamic Overload Control 3 Enabled

Functional description

Use this parameter with a switching unit equipped with feature package NTX060AE (Network Management - Enhanced). This option specifies if the Selective Dynamic Overload Control (SDOC) Transmit MC3 feature is enabled Y (yes) or disabled N (no).

When this parameter is set to Y, assign function SDOC3CUTOFF to a signal distributor point in the Alarm Signal Distributor table.

Rules in provisioning

Set the value of this parameter to Y, to enable the SDOC Transmit MC3 feature.

Set the value of this parameter to N (no), to disable the SDOC Transmit MC3 feature.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

SDOC3_ENABLE (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

SMDR_OFFICE

Parameter name

Station Message Detail Recording Office

Functional description

A switching unit with North American translations and the Integrated Business Network (IBN) feature requires this option. This parameter specifies if the switching unit has the Station Message Detail Recording (SMDR) feature.

Rules in provisioning

Set the value of this parameter to Y (yes), when the switching unit uses the SMDR feature.

Set the value of this parameter to the default N (no), when the switching unit does not use the SMDR feature.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

When you add this feature to a switch, leave the value of the option at N. When you activate the feature, set the value of the option to Y.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

SO_BULK_DMO

Parameter name

Service Order Bulk Data Modification Order

Functional description

This parameter specifies if the switching unit has the bulk input to the service order system feature.

Rules in provisioning

Set the value of this parameter to Y (yes), to prepare a tape that contains service orders for a bulk input.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

SO_DID

Parameter name

Service Order Direct Inward Dial

Functional description

Switches with service orders require this option. This option specifies if a service order can assign or remove the feature Direct Inward Dial (DID).

Rules in provisioning

Set the value of this parameter to Y (yes) for switches with the PBX Interface II software.

Leave the value of this parameter at the default of N (no) for switches that do not have PBX Interface II software.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

SO_DID (end)

Parameter History

CSP02

Warm restart activation requirement was removed in CSP02.

SO_ECHO

Parameter name

Service Order Echo

Functional description

This parameter specifies if the system must output service orders to another terminal in a local switching unit.

Rules in provisioning

Set this parameter to Y (yes) so that the system outputs service orders to another terminal.

Set this parameter to N (no) if the system must not output service orders to another terminal.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

SO_RCF

Parameter name

Service Order Remote Call Forwarding

Functional description

This option specifies if a service order can assign or remove Remote Call Forwarding (RCF).

Rules in provisioning

If the value of this parameter is set to Y (yes), a service order can assign or remove the RCF feature.

If the value of this parameter remains N (no), a service order cannot assign or remove the RCF feature.

Set the value to Y for switches with the Remote Call Forwarding software.

Leave the value at the default of N for switches that do not have the Remote Call Forwarding software.

Range information

Minimum	Maximum	Default
		N

Activation

For BCS36, warm restart.

For later releases, immediate.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

CSP02

Restart activation requirement was removed in CSP02.

SPEED_CALL_ACCESS_DIGITS

Parameter name

Speed Call Access Digits

Functional description

This parameter specifies the speed call access digits. The system requires the speed call access digits to change the value of the speed call access numbers for Meridian OffNet Access (MONA). The value of this parameter can be 1 or in the range 10 to 19.

Rules in provisioning

Set the parameter to reflect the number speed call access digits required.

Range information

Minimum	Maximum	Default
		1

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Set the parameter value to 1. Only the speed call numbers with a value of nn, where $2 < n < 9$, are permitted. Set to a value of 1X, where $0 < X < 9$, and verify that speed call numbers with a value XX are permitted.

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

SPEED_CALL_ACCESS_DIGITS (end)

Parameter history

BCS31

This parameter was introduced in BCS31.

SPM_MAX_MSGTRK_CARRIER

Parameter name

Spectrum Peripheral Module (SPM) Maximum Message Trunk Carrier

Functional description

This parameter limits the number of provisioned SPM carriers with the assigned ISUP and PTS trunks. The parameter resides in table OFCOPT with a default value of 32767.

Note: Table OFCOPT is password protected and accessible to Nortel Networks personnel only.

Provisioning rules

This parameter restricts datafill of more than the number of carriers provisioned.

Note: Nortel controls the number of carriers assigned with ISUP/PTS trunks to SPM in a single office. Customers cannot modify this parameter.

Range information

The range information is as follows:

Minimum	Maximum	Default
0	32767	32767

Activation

Immediate

Dependencies

The SPM carriers are provisioned in table MNHSCARR. The total number of SPM carriers provisioned in this table cannot exceed the total value of office parameters, SPM_MAX_MSGTRK_CARRIER and SPM_MAX_PRITRK_CARRIER

Consequences

None

SPM_MAX_MSGTRK_CARRIER (end)

Verification

To verify the number of provisioned carriers with ISUP/PTS assigned, use the following CI command:

```
>carrutil  
  
>dslplimit query  
  
>SPM_MAX_MSGTRK_CARRIER
```

Memory requirements

Add one tuple to table OFCOPT.

Dump and restore rules

During the one night process (ONP) from a pre-14 software load to a 14, 15, or 16 software load, a new preswact_transfer step, SET_DS1P_LIMIT, copies the old-side value of max_spm_dslp_per_office into the new-side value of SPM_MAX_MSGTRK_CARRIER.

Note: The pre-swact transfer step applies to the SP14, SP15, and SP16 software loads. It does not apply to SP17 software load. The step supports the ONP from pre-14 software load up to SP16.

Parameter history

NA014 and SP14

Feature 59018431 introduced this office parameter value to transfer from the old side to the new side during an ONP.

SPM_MAX_PRITRK_CARRIER

Parameter name

Spectrum Peripheral Module (SPM) Maximum Primary Rate Interface Trunk Carrier

Functional description

This parameter limits the number of provisioned SPM carriers with the assigned PRI trunks. The parameter resides in table OFCOPT with a default value of 32767.

Note: Table OFCOPT is password protected and accessible to Nortel Networks personnel only.

Provisioning rules

This parameter restricts datafill of more than the number of carriers provisioned.

Note: Nortel controls the number of carriers assigned with PRI trunks to SPM in a single office. Customers cannot modify this parameter.

Range information

The range information is as follows:

Minimum	Maximum	Default
0	32767	32767

Activation

Immediate

Dependencies

The SPM carriers are provisioned in table MNHSCARR. The total number of SPM carriers provisioned in this table cannot exceed the total value of office parameters, SPM_MAX_MSGTRK_CARRIER and SPM_MAX_PRITRK_CARRIER

Consequences

None

SPM_MAX_PRITRK_CARRIER (end)

Verification

To verify the number of provisioned carriers with PRI assigned, use the following CI command:

```
>carrutil  
  
>dslplimit query  
  
>SPM_MAX_PRITRK_CARRIER
```

Memory requirements

Add one tuple to table OFCOPT.

Dump and restore rules

During the one night process (ONP) from a pre-14 software load to a 14, 15, or 16 software load, a new preswact_transfer step, SET_DS1P_LIMIT, copies the old-side value of max_spm_dslp_per_office into the new-side value of SPM_MAX_MSGTRK_CARRIER.

Note: The pre-swact transfer step applies to the SP14, SP15, and SP16 software loads. It does not apply to SP17 software load. The step supports the ONP from pre-14 software load up to SP16.

Parameter history

NA014 and SP14

Feature 59018431 introduced this office parameter value to transfer from the old side to the new side during an ONP.

SUPPRESS_USERNAME

Parameter name

Suppress Username

Functional description

This parameter specifies if the system suppresses the user name during MAP Visual Display Unit (VDU) and printer sessions.

In order for this parameter to operate, set the office parameter ENHANCED_PASSWORD_CONTROL to Y (yes).

Rules in provisioning

When this parameter is set to Y, the user name does not appear on a VDU or printer. Also the user name does not appear at the bottom left hand corner of the screen while in MAPCI.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

SUPPRESS_USERNAME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS29

This parameter was introduced in BCS29.

TFAN_ENHANCED_FEATURE

Parameter name

Traffic Separation Number Enhanced Feature

Functional description

This option specifies if the Traffic Separation feature requires the following:

- additional source and destination numbers
- operational measurement (OM) registers
- tuples in table TFANINT

The system can assign source traffic separation numbers to incoming and two-way trunk groups, line attribute and network class of service numbers (NCOS).

The system can assign destination traffic separation numbers to different groups. These groups include outgoing and two-way trunk groups, line attribute and NCOS numbers, announcements, tones and special tones.

CI commands

The TFAN is a CI mode. With this mode, users place the intersection points, OM registers and traffic separation numbers assigned to the sources and destinations.

A CI mode called TFAN, is available to the user. The TFAN mode allows the user to combine the resources allocated to different sources and destinations. These resources include intersection points, OM registers and the traffic separation numbers.

To access this mode use the command TFAN. A TFAN query provides the available commands. The user can query each command for more information on the use of the command.

Operational measurements

Refer to OM GROUP TFCANA for the operational measurements associated with this feature.

Rules in provisioning

You can set this option to Y (yes) in switching units with software package NTX085AA or NTX470AA.

TFAN_ENHANCED_FEATURE (continued)

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

If you set this option to Y, refer to parameters TFAN_IN_MAX_NUMBER, TFAN_OUT_MAX_NUMBER, and NO_TFAN_OM_REGISTERS in table OFCENG.

Parameter TFAN_IN_MAX_NUMBER specifies the maximum number of source traffic separation numbers that the system requires before the next extension.

Parameter TFAN_OUT_MAX_NUMBER specifies the maximum number of destination traffic separation numbers that the system requires before the next extension.

Parameter NO_TFAN_OM_REGISTERS specifies the maximum number of traffic separation OM registers that the system requires before the next extension.

If you set this parameter to N (no), parameters TFAN_IN_MAX_NUMBER, TFAN_OUT_MAX_NUMBER, and NO_TFAN_OM_REGISTERS provide the following:

- 16 numbers for source traffic separation
- 16 numbers for destination traffic separation
- 225 OM registers for traffic separation

Consequences

Does not apply

Verification

Does not apply

TFAN_ENHANCED_FEATURE (end)

Memory requirements

To calculate the data store that this feature requires, use the following formula:

$$DS = (nsts \cdot ndts) + (6 \cdot tfsz) + (2 \cdot u \cdot ntsr) + (u \cdot nac \cdot ntsr)$$

where

DS

is the data store in words

ntst

is the number of STSN allocated (12, 32, 64 or 128)

mdts

is the number of DTSN allocated (16, 32, 664 or 128)

tfsz

is the size specified in table DATASIZE for TFANINIT
(0 to 2048)

u

2 or 6 (2 if pegs only, 6 if pegs and usage)

ntsr

is the number of assignable OM registers (1 to 2048)

nac

is the number of OM accumulating classes defined

$$DS = (64 \times 128) + (6 \times 1024) + (2 \times 6 \times 1024) + (6 \times 2 \times 1024) \\ = 38K \text{ words}$$

Dump and restore rules

Copy the current values of this parameter. Do not copy the parameter value if the extension and the operating company added or deleted software package NTX085AA or NTX470AA.

Parameter history

CSP02

The restart requirement was removed in CSP02.

TIE_ROUTE_INFO_EXT_REC

Parameter name

Tie Route Information Extension Record

Functional description

A ISDN DMS-300 Gateway switch requires this parameter to produce Call Detail Records (CDR) for the Accounting Statistics Processing System (ASPS).

This parameter specifies if an extension record with record code 0B, that contains tie route information during a call, involves tie trunks.

Rules in provisioning

Set the parameter to a value of Y (yes) if the system requires an extension record that contains tie route information when a call that involves tie trunks occurs. Set the value of this parameter to N (no) if the system does not require this extension record.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

TIE_ROUTE_INFO_EXT_REC (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

TRAFFIC_INFO_EXT_REC

Parameter name

Traffic Information Extension Record

Functional description

An Integrated Services Digital Network (ISDN) DMS-300 Gateway switch requires this parameter. The ISDN requires this parameter to produce Call Detail Records (CDR) for the Accounting Statistics Processing System (ASPS).

This parameter specifies if the system generates an extension record, with record code 0D, that contains traffic information. The system generates this extension record for all calls.

Rules in provisioning

Set the value of this parameter to Y (yes) for an extension record with the tie route information. This extension record is required when there is a call that involves tie trunks. Set the parameter value to N (no) if you do not require the system to generate this extension record.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

TRAFFIC_INFO_EXT_REC (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS31

This parameter was introduced in BCS31.

TWO_WAY_FOR_AMR5

Parameter name

Two-way for AMR5

Functional description

A local or combined local/toll switching unit with software package NTX902AA (Local Features II) required this parameter. This parameter indicates when the system arranges the AMR5 trunk groups, trunk group type A5 for two-way operation.

Rules in provisioning

Set this parameter to Y (yes), to allow the AMR5 trunk groups two-way operation.

Range information

Minimum	Maximum	Default
		N

Activation

If the optional AMR5 trunk group software is available, activation is immediate.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

TWO_WAY_FOR_OC

Parameter name

Two-way for Outgoing CAMA Trunks

Functional description

Local switching units with Outgoing CAMA trunk group type OC trunks require this parameter. This parameter indicates when the system arranges the OC trunk groups for two-way operation.

Rules in provisioning

Set this parameter to Y (yes), when the local switching unit and the arranged OC trunk groups are two-way operational.

You must leave the value of this parameter at the default value of N (no) in a switch that is not one of the following:

- a local switching unit
- a local switching unit with OC trunk groups that is not arranged for two-way operation
- a local switching unit without OC trunk groups

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

TWO_WAY_FOR_OC (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

TWO_WAY_FOR_OP

Parameter name

Two-way for Outgoing Traffic Operator Position System / Traffic Service Position System Trunk Groups

Functional description

Switching units with software package NTX902AA02 require this parameter. This parameter specifies if the outgoing TOPS/TSPS Trunk Group feature is available.

This parameter indicates when the system arranges the outgoing TOPS/TSPS trunk groups and trunk group type OP for two-way operation.

Rules in provisioning

If the system arranges the outgoing TOPS/TSPS trunk groups for two-way operation, set this parameter to Y (yes).

Range information

Minimum	Maximum	Default
		N

Activation

Activation is immediate, if the optional Two-way Outgoing TOPS/TSPS Trunk Group software is available.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

TWO_WAY_FOR_OP (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

US_CUG_ENABLED

Parameter name

United States Closed User Group Enabled

Functional description

A switch in the United States that has the Datapath Closed User Group (CUG) feature requires this parameter. This parameter specifies if the Datapath CUG feature is active in a switch in the United States.

The CUG feature is a security feature that allows Data Unit (DU) users to form a virtual private group. This virtual private group restricts access between the group and outside users.

The CUG prevents accidental or random access. The CUG does not provide complete protection against attempts to break into this group.

Rules in provisioning

To activate the Datapath CUG feature, set the value of this parameter to Y (yes).

If the Datapath CUG is inactive, leave the value of this parameter at the default value of N (no).

Set the value of this option to Y, when the value of the office parameter CUG_REGION in table OFCSTD is between 4 and 63.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate for an increased value

Cold restart for a decreased value

Dependencies

Establish this parameter after the office parameter CUG_REGION in table OFCSTD.

US_CUG_ENABLED (end)

Consequences

Does not apply

Verification

To verify that this parameter is valid, perform the following:

1. Enter data in two DUs to assign the DUs to different CUGs.
2. Make sure that there is no compatibility between these two CUGs in the table CUGCOMP.
3. Make a call from one of the DUs.
4. Verify that the system rejects the call because the CUG feature is active.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**CSP02**

Restart activation was changed for an increased value in CSP02.

BCS27

This parameter was introduced in BCS27.

USINGSITE

Parameter name

Using Site

Functional description

A local or combined local/toll switching unit with remote operation, requires this parameter. This option specifies if input data contains the site name.

Rules in provisioning

If the input data must include four-character name assigned to the remote location, set the value of this parameter to Y (yes).

To exclude the four-character name assigned to the remote, leave parameter at the default value of N (no).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

UT_MAX_AND_CURRENT_TRUNK_COUNT

Parameter name

Utility Telemetry Maximum and Current Trunk Count

Functional description

This parameter specifies the maximum and current number of Utility Telemetry (UT) trunks that can be provisioned for a DMS office. This parameter has two fields as follows:

- UT_MAX_AND_CURRENT_TRUNK_COUNT.MAXIMUM
- UT_MAX_AND_CURRENT_TRUNK_COUNT.CURRENT

The MAXIMUM field represents the maximum number of UT trunk parts that can be provisioned for a central office. The CURRENT field represents the number of UT trunks provisioned in the office. The value of CURRENT must be less than or equal to the value of MAXIMUM.

This parameter implements threshold pricing control on the supply of UT trunk parts.

Rules in provisioning

This parameter is write protected because it is in table OFCOPT. Only Northern Telecom can change the value of the maximum number of UT trunks. Request any change through Northern Telecom.

The Telemetry Application software automatically adjusts the value of the current number of UT trunks. This field does not require user modification.

When the current number of UT trunks equals the maximum, the user cannot add more trunks. An error message appears when the user attempts to add another trunk.

Range information

Field UT_MAX_AND_CURRENT_TRUNK_COUNT.MAXIMUM has the following range of values:

Minimum	Maximum	Default
0	32767	0

UT_MAX_AND_CURRENT_TRUNK_COUNT (end)

Field `UT_MAX_AND_CURRENT_TRUNK_COUNT.CURRENT` has a minimum value of 0 (zero). The maximum value is equal to the datafill in `UT_MAX_AND_CURRENT_TRUNK_COUNT.MAXIMUM`.

Activation

Immediate

A restart is not required.

Dependencies

Does not apply

Consequences

The value of `UT_MAX_AND_CURRENT_TRUNK_COUNT.MAXIMUM` represents the maximum number of UT trunks configured for an office. When the number of UT trunks reaches this limit, no more trunk members can be added.

Verification

Examine the tuple of table OFCOPT at the MAP to verify that this parameter is set.

Memory requirements

This parameter requires two 16-bit words of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

NA002

This parameter was introduced in NA002.

VSLE_PRESENT

Parameter name

Visual Screen List Editing Present

Functional description

The VSLE_PRESENT parameter allows access to Visual Screen List Editing (VSLE) when the user dials an SLE feature code. The datafill of the ADSI tuple in table RESOFC or the ADSI line option in table RESFEAT does not affect access.

Rules in provisioning

Set this parameter to Y (yes) to access VSLE and override the Analog Display Services Interface (ADSI) line option.

Set this parameter to N (no) to allow the assignment of the ADSI line option to determine the access the VSLE. The system does not access VSLE on a line when the user does not assign the ADSI line option to the line.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

The VSLE_PRESENT is set to Y. The ADSI line option is not assigned to a line. Verify that the access VSLE occurs and the phone receives an ADSI query tone when you dial an SLE access code.

Memory requirements

Each unit requires 1 word of memory.

VSLE_PRESENT (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

XPM_CSIDE_DMSX

Parameter name

Extended Multiprocessor System-based Peripheral Module C-side DMSX

Functional description

This parameter controls the capacity of Extended Multiprocessor System (XMS)-based Peripheral Module (XPM) C-side messaging links to run the DMSX protocol. These links run the DMSX protocol instead of the normal DS30 protocol. Use this parameter for enhanced network (ENET) and link peripheral processor (LPP) equipped Common Channel Signaling 7 (CCS7) offices only. When the user sets this parameter to Y (yes), the system removes the CM load from the message path. The system removes the CM load from the message path path between the CCS7 link interface unit (LIU7) and the digital trunk controller 7 (DTC7). The system reduces the CM load.

Rules in provisioning

When the value of this parameter is set to Y (yes), the LIU7s and DTC7s can convert protocols.

Leave the value of this parameter at the default of N (no) unless told otherwise by Northern Telecom.

Do not attempt to set the value of this parameter to Y. If the value is set to Y, do not attempt to alter the value. Contact Northern Telecom Regional Support for help. Office isolation occurs when you do not follow the correct procedure.

Range information

Minimum	Maximum	Default
		N

Note: This default is chosen because all current PMs use the DS30 protocol.

Activation

Only activate this feature when Northern Telecom specifies.

Dependencies

Does not apply

XPM_CSIDE_DMSX (end)

Consequences

When you set this parameter to a value of Y only, you cannot achieve CM real time gain. You must follow Protocol conversion procedures (see feature AL1460) to convert the messaging protocol to run DMSX. When you do not follow correct protocol conversion rules, XPMs do not return to service (RTS). Other service degradation can occur.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS31

This parameter was introduced in BCS31.

XPM_MATE_DIAGNOSTICS_AVAILABLE

Parameter name

XMS-based Peripheral Module Mate Diagnostics Available

Functional description

This parameter specifies if the XMS-based Peripheral Module (XPM) Mate Diagnostic feature is available for the resident switch.

The XPM Mate Diagnostic feature allows the central control (CC) or computing module (CM) to diagnose an XPM unit through the mate of the XPM. Use the XPM Mate Diagnostic feature when the following conditions occur:

- the CC or CM cannot communicate directly with a damaged unit
- the mate of the damaged unit is in service

The XPM Mate Diagnostic feature only works for:

- XPMs equipped with NT6X45BA processor circuit packs or later versions
- messaging circuit packs that are NT6X69 or later versions

Rules in provisioning

Set the value of this parameter to Y (yes) when the XPM Mate Diagnostic feature is an option in the resident switch.

Leave the value of this parameter at N (no) when the XPM Mate Diagnostic feature is not in the resident switch.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

XPM_MATE_DIAGNOSTICS_AVAILABLE (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS26

This parameter was introduced in BCS26.

ZERO_PLUS_FEATURE

Parameter name

Zero Plus Feature

Functional description

Local or combined local/toll switching units with the 0 + dialing feature and software package NTX902AA07 (Local Features II) require this option.

This option specifies if the switching unit has the 0+ feature.

Rules in provisioning

Northern Telecom engineering sets this parameter if the operating company purchased this feature.

Range information

Minimum	Maximum	Default
		N

Activation

To activate a change to the value of this parameter, BUSY (BSY) the individual LM/LTC. Reload the static data and RETURN TO SERVICE (RTS) the LM/LTC.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

ZERO_PLUS_FEATURE (end)

Dump and restore rules

Copy the current value of this parameter when you perform dump and restore procedures.

3 OFCSTD parameters

This chapter describes the parameters in table office standards (OFCSTD).

AC_AUDIT_INTERVAL

Parameter name

Attendant Console Audit Interval

Functional description

Offices with the Integrated Business Network (IBN) use this parameter.

The value of this parameter represents the time interval between audits. The system performs this audit on the attendant console and attempt queue for consoles for call processing problems.

The parameter defines the time in 1 min intervals.

Rules in provisioning

Leave this parameter at the default value unless Northern Telecom instructs you to change the parameter value.

Range information

Minimum	Maximum	Default
1	255	1

Activation

At the next audit interval

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

AC_AUDIT_INTERVAL (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

AC_MAX_NUM_ERRORS

Parameter name

Attendant Console Maximum Number of Errors

Functional description

A switching unit with the Integrated Business Network (IBN) feature and attendant consoles requires this parameter. This parameter specifies the maximum number of hardware related errors that an IBN attendant console can sustain within an audit interval. The system removes the audit from service when more than the maximum number of errors occur.

Rules in provisioning

Leave this parameter at the default value unless Northern Telecom instructs you to change the parameter value.

Range information

Minimum	Maximum	Default
1	255	30

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

See OM group ACTAKEDN for the associated operational measurements for this parameter.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform dump and restore.

AC_MAX_NUM_ERRORS (end)

Parameter history

BCS21

This parameter was introduced in BCS21.

AC_TPB_BSY_RCV

Parameter name

Attendant Console TPB Busy Receiving

Functional description

When the buffer is busy receiving the system can block messages to each console in the Maintenance Trunk Module (MTM). This parameter specifies a maximum number of times that this blocking can occur within an attendant console audit cycle. The console must be reset when the number of blocked messages exceeds this maximum number.

Rules in provisioning

Leave this parameter at the default value unless Northern Telecom instructs you to change the parameter value.

Range information

Minimum	Maximum	Default
15	50	20

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is set too high, the risk of a console Key Lamp Display (KLD) that is not correct increases. The risk increases because of lost messages.

If the parameter is set too low, the audit can reset attendant consoles more often than necessary.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

AC_TPB_BSY_RCV (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS30

This parameter was introduced in BCS30.

AC_TPB_BSY_SND

Parameter name

Attendant Console TPB Busy Sending

Functional description

When the buffer is busy sending the system can block messages to each console in the Maintenance Trunk Module (MTM). This parameter specifies a maximum number of times that this blocking can occur within an attendant console audit cycle. The console must be reset when the number of blocked messages exceeds this maximum number.

Rules in provisioning

Leave this parameter at the default value unless Northern Telecom instructs you to change the parameter value.

Range information

Minimum	Maximum	Default
15	50	20

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is set too high, the risk of a console Key Lamp Display (KLD) that is not correct increases. The risk increases because of lost messages.

If the parameter is set too low, the audit can reset attendant consoles more often than necessary.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

AC_TPB_BSY_SND (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS30

This parameter was introduced in BCS30.

ACD_AGENTQ_AUDIT_INTERVAL

Parameter name

Automatic Call Distribution Agent Queue Audit Interval

Functional description

A switching unit with the Automatic Call Distribution (ACD) feature requires this parameter. This parameter specifies how many minutes elapsed between successive executions of the Automatic Call Distribution Agent Queue audit. This audit inspects the queues of idle, busy, not ready agents. This audit also reinitializes corrupt queues. The audit also recovers agent positions the maintenance action deactivated. The audit recovers the positions when the maintenance action is complete. A manually-busy line module caused the deactivation.

Rules in provisioning

The value of this parameter represents the audit interval in increments of 1 min.

If you set the parameter to zero, the audit runs every 30 s. In a large office an audit that runs every 30 s can dominate CPU resources.

Values in the range from 5 to 120 min are good choices.

Range information

Minimum	Maximum	Default
32767 (reserved) 0 (programmed)	32767	1 (values less than 0 are interpreted as 0)

Activation

An audit activates this parameter.

A change in the value of this parameter occurs the next time the ACDAUDIT process runs. A change that increases the parameter from 2 min to 20 min, for example, occurs within the next 2 min. After the audit recovers from the previous delay cycle (2 min) the audit uses the new value of the parameter. Any type of restart also forces a change in value of this parameter to take effect. Note that the ACD AGENTQ audit does not run for the first 3 min after the completed restart.

ACD_AGENTQ_AUDIT_INTERVAL (end)

Dependencies

Does not apply

Consequences

A parameter value that is too small causes the audit to consume too great a share of the CPU time. This condition is true for non-call-processing tasks.

A parameter value that is too large results in a switch that cannot recover quickly from corrupted ACD queue(s). When the queues are corrupt, the ACD can become not able to complete incoming calls.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS18**

You will find this parameter introduced in BCS18.

ACD_CALL_QUEUE_AUDIT_INTERVAL

Parameter name

Automatic Call Distribution Call Queue Audit Interval

Functional description

An SL-100 switching unit with the Automatic Call Distribution (ACD) feature requires this parameter. This parameter specifies how many minutes elapsed between successive executions of the ACD call queue audit.

This audit inspects all four priority queues of each ACD group in the system. If the audit finds a corrupt queue, the audit reinitializes the queue. The audit reinitializes the queue at the point where the audit finds bad queued call.

Rules in provisioning

The value of this parameter is in 1 min intervals.

If the value of this parameter is set to 0 (zero), the audit runs every 30 s. In a large switching unit, consider the CPU resource use.

The recommended value for the audit interval is 1 min.

Range information

Minimum	Maximum	Default
-32767 (values less than 0 are interpreted as 0)	32767	1

Activation

An audit activates this parameter.

A change in value of this parameter occurs the next time the ACDCQAUD process runs. A change that increases the parameter from 2 min to 20 min, occurs within the next 2 min. After the audit recovers from the previous delay cycle (2 min) the audit uses the new value of the parameter. Any type of restart also forces a change in value of this parameter to take effect. Note that the ACD call queue audit does not run for the first 3 min after the completed restart.

Dependencies

Does not apply

ACD_CALL_QUEUE_AUDIT_INTERVAL (end)

Consequences

A value that is too high impairs the ability of the switching unit to recover corrupt ACD call queue(s) quickly. During a period of corrupt queues, ACD can become not able to complete incoming calls. This audit minimizes that possibility.

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS19**

This parameter was introduced in BCS19.

ATT_NOSTART_DIALS

Parameter name

AT&T Nostart Dials

Functional description

An AT&T switching unit that experiences no-start dials because the trunks of the unit disconnect and originate quickly requires this parameter. The speed of disconnection and origination causes the DMS to handle this signal as a flash.

If you set this parameter to Y, you disable flash supervision on incoming intertoll (IT) trunks to access tandem to carrier (ATC) trunks.

Rules in provisioning

Set the value of this parameter to Y (yes) to disable flash supervision on incoming IT trunks to ATC trunks.

Set the value of this parameter to N (no) if this feature is not required.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

ATT_NOSTART_DIALS (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS27

This parameter was introduced in BCS27.

AUDHIGHFREQ

Parameter name

High Rate System Audit Frequency

Functional description

This parameter represents the frequency at which the high rate system audit runs.

Rules in provisioning

Leave this parameter at the default value unless Nortel (Northern Telecom) instructs you to change the parameter value.

Range information

Minimum	Maximum	Default
	32767	1

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

AUDIT_INTERVAL

Parameter name

Call Processing Audit Interval

Functional description

This parameter specifies the time interval, in minutes, between call processing audits.

Rules in provisioning

Leave this parameter at the default value of 15. Allow only Northern Telecom personnel to change this parameter. The recommended range for this parameter is between 15 and 60.

Range information

Minimum	Maximum	Default
1	255	15

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

AUDLOWFREQ

Parameter name

Low Rate Audit Frequency

Functional description

This parameter represents the frequency the low rate audit is run at.

Rules in provisioning

Leave this parameter at the default value unless Northern Telecom instructs you to change the parameter value.

Range information

Minimum	Maximum	Default
0	32767	15

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

AUDMEDFREQ

Parameter name

Medium Rate Audit Frequency

Functional description

This parameter represents the frequency at which the medium rate audit runs.

Rules in provisioning

Leave this parameter at the default value unless Northern Telecom instructs you to change the parameter value.

Range information

Minimum	Maximum	Default
0	32767	5

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

AUDVLOWFREQ

Parameter name

Very Low Audit Frequency

Functional description

This parameter sets the frequency, in minutes, of the audits that belong to the VERY_LOW_AUDIT_FREQUENCY audit class. The time set must allow all audits in this system audit class to run to completion. The default is 120 min.

Audit MODULE_TABLE has been removed from audit class LOW_AUDIT_FREQUENCY and added to class VERY_LOW_AUDIT_FREQUENCY.

Rules in provisioning

Set to the default, 120 min.

Range information

Minimum	Maximum	Default
0 min	32 767 min	120 min

Activation

Immediate

Dependencies

Does not apply

Consequences

If the frequency of reporting is less than every 120 min, the increased frequency can prevent completion of the audits. A frequency above every 120 min increases the possibility of data corruption, traps or software errors. This increase occurs because of processes not able to run to completion. The processes cannot run to completion because the processes cannot obtain sound data from data module, MODULES.

AUDVLOWFREQ (end)

Verification

If SYSAUDC ci is available, execute SYSAUDC QUERY, this command will display the VERY_LOW_AUDIT_FREQUENCY settings.

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history**Base 08**

Parameter AUDVLOWFREQ was introduced in Base 08.

BCS_NUMBER

Parameter name

Batch Change Supplement Number

Functional description

This parameter indicates the BCS number of the load image. The device independent recording package (DIRP) records the parameter on Bellcore automatic message accounting (AMA) tape header labels.

Rules in provisioning

This parameter has two fields. An issue number (0 to 99) indicates the BCS number. A sub-issue number (0 to 9) that indicates any special BCS file releases.

The sub-issue number is normally 0 (zero).

The default value for BCS_NUMBER is XX 0, indicating the standard BCSXX load.

Range information

Minimum	Maximum	Default
		XX 0

Activation

Immediate

Dependencies

Does not apply

Consequences

The issue field is read-only. The system rejects any attempt to change the issue field with the following message:

CHANGES TO THE ISSUE FIELD ARE NOT PERMITTED

Verification

Does not apply

Memory requirements

This parameter value requires 1 word of memory.

Dump and restore rules

You do not need to perform dump and restore procedures, to update this parameter from one software release to another. The system automatically updates the issue number field and the sub-issue field automatically defaults to a value of 0.

CARD_X53

Parameter name

Card X53

Functional description

Software support for 256-kbyte memory boards in an NT-40 switching unit requires this parameter.

This parameter specifies if an NT1X53 firmware read-only memory (ROM) card or an NT1X46 firmware ROM card is present on the CPU shelf.

Rules in provisioning

If an NT1X53 card is present on the CPU shelf, set the value of this parameter to Y (yes).

If an NT1X46 card is present on the CPU shelf, set the value of this parameter to N (no).

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

CHANNEL_UNIT_601_PRESENT

Parameter name

Channel Unit 601 Present

Functional description

This parameter applies only to those switching units that have QPP601 channel units connected to FX trunks.

Rules in provisioning

The default value for the parameter is N (no), which specifies that the office parameter is inactive.

Foreign exchange (FX) service provides a private branch exchange (PBX) subscriber with access to a remote central office (CO) through dedicated FX trunks. An FX trunk is a two-way trunk with ground start signaling modes. A T1 carrier implements an FX trunk. A channel bank and appropriate channel units make a compatible route from the T1 carrier to the remote CO. If necessary, the channel unit translates T1 carrier signals into appropriate ground start signals and presents these signals to the remote CO. The channel unit translates ground start signals into appropriate A and B bits for transmission on the T1 carrier.

If the value of this parameter is set to Y (yes) the following occurs:

1. The system selects an idle FX line on which to terminate the call, when a subscriber at the remote central office (CO):
 - goes off-hook and
 - dials the listed directory number (LDN) of an IBN subscriber at the DMS-100

The state of an idle line is tip open and no ringing. The line termination applies ground on tip and sends ringing current toward the DMS-100. At the DMS-100 end, the system can detect before ground on tip. If the system detects the ringing first, the trunk goes to an invalid state in software (tip open, and ringing). The QPP601 channel units allow this invalid state to occur because these units can apply ringing current to the trunk before ground on tip.

The next time the system detects ringing at the DMS-100, a valid seizure state occurs.

A switching unit experiencing this problem receives several call failure messages from specified FX trunk group(s). The TRK123 logs appear for

CHANNEL_UNIT_601_PRESENT (continued)

these trunks and indicate a call failure message was received when an origination message was expected.

2. When a calling party goes on-hook, the DMS-100 sends a Clear Forward message (loop open, no ground on ring). The remote CO sends a Clear Back message (tip open, no ringing) toward the DMS-100. The DMS-100 waits 200 to 800 ms before seizure of the DMS-100 from the remote CO can occur. This wait the idle guard time. This state is ground on tip and ringing. The trunk ignores the idle state, because the idle state does not remain constant for the idle guard time. The trunk also ignores additional ringing. When the idle guard time finishes, the trunk goes to lockout. The trunk goes to lockout because the trunk has not received a Clear Back (or idle signal) from the remote CO.

The idle state is not recognized because the line does not remain in an idle state for the idle guard time. When the system applies ringing, the DMS-100 assumes that a valid idle state occurred. When DMS-100 detects ringing again, a valid origination occurs.

An error message appears if this parameter has a value that is not correct. A warning message appears when the value of this parameter changes. This message reminds Northern Telecom personnel to resend EXECs on the affected peripheral modules (PM).

Range information

Minimum	Maximum	Default
		N

Activation

For a change to this parameter, you must reset the EXECs of PMs that contain any of the following EXEC lineups:

- TM8EX
- TM4EX
- TM2EX
- FXODCM
- DCMEX
- DTCEX
- ACDMEX

CHANNEL_UNIT_601_PRESENT (end)

- FXODTC
- DTCFX

Old PMs with FXODCM EXEC lineups must have the LOADPM command reset EXECS.

On new PMs, follow the following procedure:

1. Busy (BSY) and Return to service (RTS) the inactive unit.
2. Perform a Warm SWACT.
3. If TRK121 logs appear without start dial conditions, perform a Cold SWACT.

If you change the parameter value, follow the dump and restore procedure. You do not need to perform any special activities.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

History

TL04

Removed reference to patches LWC89 and SKI07.

BCS20

This parameter was introduced in BCS20.

CHECK_FIELD_NAME

Parameter name

Check Field Name

Functional description

If this parameter is set to Y (yes), the table editor checks field names. The editor checks that a field name does not have more than eight characters or contain underscores.

If this parameter is set to N (no), the table editor does not perform this check.

Rules in provisioning

If you are use the switching unit to test new features, set this parameter to Y (yes). An example of a new feature is BNR captive office.

In any other event, set this parameter to N (no).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

CHECK_FIELD_NAME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS15

This parameter was introduced in BCS15.

CONSOLE_SILO_CHARS

Parameter name

Console Silo Characters

Functional description

This parameter sets the size of the internal buffers.

Note: This parameter is not visible in software loads Base 06 or later.

Rule in provisioning

When the central processing unit (CPU) occupancy reaches 60% or higher, change the value from the default value to a value of 510.

Use the maximum value of 510 at all times. A value higher than 510 is not recommended.

Range information

Minimum	Maximum	Default
255	510 (recommended)	255

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

Memory requirement for each terminal (console) is half the value of this parameter.

CONSOLE_SILO_CHARS (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

Base 06

This parameter is hardcoded to value 510 and is not visible.

CSP02

The activation changed to immediate.

BCS36

Reference to NORESTARTSWACT activation was added in BCS36.

CONSOLE_SILO_RECORDS

Parameter name

Console Silo Records

Functional description

This parameter sets the size of the internal buffers.

Note: This parameter is not visible in software loads base 06 or later.

Rules in provisioning

When the central processing unit (CPU) occupancy reaches 60% or higher, change the value from the default value to a value of 20.

The recommended maximum value for all switches is 20.

Range information

Minimum	Maximum	Default
10	20 (recommended)	10

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

The memory requirement for each terminal (console) is the value of this parameter multiplied by 18.

CONSOLE_SILO_RECORDS (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

Base 06

This parameter is hardcoded to value 20 and is not visible.

CSP02

The restart activation requirement changed in CSP02.

CPSTACKSIZES

Parameter name

Call Processing Stack Size

Functional description

All switches require this parameter. This parameter specifies the number of words of stack space allocated to each call process.

See parameter NUMCALLPROCESSES in table OFCENG for the assignment of call processes.

This parameter changes according to the software load in the switch. You will find the value predetermined for the different loads.

Rules in provisioning

For NT-40 offices, the recommended value and long term target value is 784. Some office types need to increase this value if call processing stack overflow traps occur. If this condition occurs in any BCS, change the software. Change the software so that a return to the 784 value is appropriate (without traps) in a later BCS.

You can increase the value beyond 784. Do not increase the value permanently. Correct stack use in a later BCS so that, in the long term, 784 is appropriate for all offices.

For SuperNode offices, the recommended value is 1504.

The recommended values are only for the first entry. The recommended values can cause Unable to save ramstack (PROGRAM: CALLP) traps. If this trap occurs you can calculate the value to reset the parameter to from information found in fields of TRAPINFO.

The equation is as follows:

$$\begin{aligned} & \text{(field ST – offset part of stack desc, field ADDR)} \\ & + \text{(field SP – user ram stack start)} \end{aligned}$$

If you require additional help, call field support.

If the recommended values differ from the values in the current switch, set the parameter to the higher value of the two.

CPSTACKSIZES (continued)

Range information

Minimum	Maximum	Default
784 (NT40)	32752 (NT40)	784 (NT40)
1504 (SuperNode 68K)	4640 (SuperNode 68K)	1504 (SuperNode 68K)
1504 (SuperNode 88K)	16368 (SuperNode 88K)	2000 (SuperNode 88K)
		4500 (DMS-100G 68K)
		4640 (DMS-100G 88K)
		6000 (DMS-100 Wireless 88K)
<p>Note: Stack size for a 68K SuperNode increases in blocks of 1 word, but stack size for 88K SuperNode increases in blocks of 2K words.</p>		

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

See parameter NUMCALLPROCESSES in table OFCENG.

Dump and restore rules

For an NT40 switch, if the value is less than 784, set the value to 784. If the value is greater than 784, do not decrease the value.

For a SuperNode switch, if value is less than 1504, set value to 1504. If the value is greater than 1504, do not decrease the value.

Parameter history**NA011**

For the DMS-100 Wireless switch, 6000 is the recommended value for office parameter CPSTACKSIZE.

GL03.0

The default values for the DMS-100G switch were added in GL03.0.

CSP05

The maximum range value for BRISC was changed to 16368. Activation was changed to remove restart requirement.

CSP04

Activation MTCSWACT was added in CSP04.

BCS36

The BRISC default value of 2000 and NORESTARTSWACT activation were added in BCS36.

CUG_REGION

Parameter name

Closed User Group Region

Functional description

A switching unit in the United States that has the Datapath Closed User Group (CUG) feature requires this parameter.

The CUG feature is a security feature that makes able data unit (DU) users to form a virtual private group. This group restricts access between the group and outside users. The CUG can prevent accidental or random access. The CUG does not provide total protection against determined attempts to break into this group.

This parameter specifies the CUG region number of the switching unit. A CUG region normally identifies a geographical region within which an operating company operates.

Assign all DMS-100 switching units in a region to the same CUG Region. For example, operating company A provides telephone services for a city. In this example, all DMS/SL-100 switching units operated by A and within the city require the same CUG region.

The PBX switching units within a region can have a separate CUG Region. You can assign a different region if you do not want these private switching units to interact with the outside world.

A large region can use more than one CUG region number. The region can use more numbers when the number of CUG IDs exceeds the maximum number allowed for a region.

This parameter can take one of the 60 possible values, from 4 to 63.

Rules in provisioning

Specify the CUG Region number the switching unit is assigned to.

Range information

Minimum	Maximum	Default
4	63	0

CUG_REGION (end)

The default value of 0 (zero) can change. If the default value changes to a valid value between 4 and 63, the value cannot change back to 0 (zero).

Activation

Immediate

Dependencies

Engineer this parameter before the option US_CUG_ENABLED in table OFCOPT and table CUGCOMP has data entered.

Consequences

Does not apply

Verification

To verify that this parameter is in effect, attempt to add a tuple in table CUGCOMP. A key with a different CUG_REGION value generates the following error message:

ERROR: CUG_REGION MUST BE THE SAME AS IN TABLE OFCSTD

If this error occurs, the office parameter is in effect.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS27**

This parameter was introduced in BCS27.

DCM_PARITY_FILTER

Parameter name

Digital Carrier Module Parity Filter

Functional description

A switching unit with the Datapath feature requires this parameter. This parameter specifies the parity error reporting threshold of the DCM.

Only change the value of this parameter to clean up the DCM/Network hardware for Datapath office grooming.

Rules in provisioning

Change to a value lower than 8, to clean up the DCM/Network hardware for Datapath office grooming.

Range information

Minimum	Maximum	Default
1	255	8

Activation

Busy (BSY) and return to service (RTS) the DCM.

The value in the remainder of the DCMs remains at the original value. The value remains at this value until you busy and returned to service the DCMs.

Dependencies

Does not apply

Consequences

If the parameter is set to a lower value than 1, it is automatically set to the default value.

If the parameter is set to a higher value than 255, it is automatically set to 255.

A change in the value of this parameter to less than 8 can cause the number of NET102 LOGS to increase.

DCM_PARITY_FILTER (end)

Verification

If this parameter is set to a lower value a higher number of NET102 logs appear for a DCM with marginal hardware.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS26**

This parameter was introduced in BCS26.

DIGIT_COL_OFFICE_CODE

Parameter name

Digit Collection Office Code

Functional description

Local switching units require this parameter. This parameter defines digit collection for the line module.

Rules in provisioning

Values are as follows:

1 = Bell Canada (standard)

Bell Canada (standard) permits the following digit collection for the line module:

- N11 codes
- 410X codes
- Overlap three digits or one + three digits

For direct overseas dialing, Bell Canada (standard) permits the following sequences:

- 0 + up to 10 digits
- 01 + up to 16 digits
- 011 + up to 16 digits
- 11XX (after the service digits 11 are collected, the line module receives instructions to collect two more digits)

2 = Conroe features

Conroe features permit the same digit collection as Bell Canada (standard) plus the following sequences:

- 1 + N11
- 844 (time and weather)

3 = Barbados features

Barbados features permit the following digit collection for the line module:

- 11X codes

4 = Puerto Rico

Puerto Rico features allow for long timing after the second dial tone.

DIGIT_COL_OFFICE_CODE (continued)

The following digit collection for the line module is permitted:

- 11X codes

5 = Bermuda

This code permits the following digit collection for the line module:

- N11 codes
- 1+ and 0+ calls are seven or ten digits
- 0-
- 01 or 011 calls up to 16 digits
- 9XX calls
- 11XX (The line module is instructed to collect two more digits after the service digits 11 are collected)

6 = New York Tel

This code permits the same digit collection as code 1, plus the following:

- 1 + 411
- three-digit reporting of codes 660, 844, 958, and 990

8 = British Columbia-Canada only

This code permits the same digit collection as code 1 (Bell Canada). The exception is that the line module is instructed to collect one more digit after the service digits 11 are collected.

9 = Guam

This code is for the digit collection required for Guam.

This code permits the following digit collection for the line module:

- 11X Service codes 001 + 002 + (operator assist)
- seven digits (digit local-to-local dialing)
- 0- access to local operator
- 000- access to gateway (RCA) operator
- 001+ (Station Paid) IDDD Country Code (including U.S.) + National No.
- 002+ (operator assist)

44 = United Kingdom

If the digit collection is plain old telephone system (POTS) or Residential Enhanced Services (RES) use the following digit collection table.

DIGIT_COL_OFFICE_CODE (continued)

A switching unit uses POTS or RES digit collection should any of the following conditions be present:

- The switching unit serves POTS or RES lines.
- You will find POTS or RES specified in table CUSTHEAD, DIGCOL, or NCOS.

Digit collection provisioning for the United Kingdom

Starting digits dialed	Total digits before short timing started	Total digits before reporting digits
0101	14	10
010X	10	15
01X	9	9
0X	7	7
1	3	3
2 to 8	7	7
999	3	3
9XX	7	7

Range information

Minimum	Maximum	Default
0	32 767	1

Activation

To activate a change in the value of this parameter do the following:

- BUSY (BSY) each peripheral module (PM)
- reload the static data
- return to service (RTS) the PM

DIGIT_COL_OFFICE_CODE (end)

Dependencies

Parameter NUMBER_OF_DIGITS_PER_DN in table OFCENG defines the number of digits for each directory number for local, 1+, and 0+ calls.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

DIRPKILL_IN_EFFECT

Parameter name

Device Independent Recording Process Kill in Effect

Functional description

This parameter allows you to set field MINFILES in table DIRPSSYS to 0 (zero). During tape to disk conversion, Automatic Message Accounting (AMA) recording must be suspended to allow the table changes.

Rules in provisioning

You can set the value of this parameter to Y (yes). If the value of this parameter is Y you can set the value of field MINFILES in table DIRPSSYS to 0.

The default value of N (no) specifies that this office parameter is not in effect.

A restart initializes this parameter to N.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

DIRPKILL_IN_EFFECT (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS20

This parameter was introduced in BCS20.

DPREC_INTER_DGT_TIMING

Parameter name

Dial Pulse Inter-digit Timing

Functional description

This parameter specifies the end-of-digit timing for dial pulse on trunk modules (TM) between two consecutive digits.

Rules in provisioning

Specify the end-of-digit timing for dial pulse on trunk modules (TM), in 5-ms intervals.

Range information

Minimum	Maximum	Default
16	255	16

Activation

If the peripheral module (PM) does not connect to an LTC, busy (BSY) and return to service (RTS) the PM to activate a change to this parameter.

If the PM connects to an LTC, put the LTC through an RTS to activate a change to this parameter. Either BSY and RTS both sides of the peripheral or perform a double warm SWACT. This process updates both the active and inactive sides.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

DPREC_INTER_DGT_TIMING (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS18

This parameter was introduced in BCS18.

DUMP_RESTORE_IN_PROGRESS

Parameter name

Dump and Restore in Progress

Functional description

This parameter specifies if a dump and restore is in progress.

Rules in provisioning

The default value for this parameter is N (no). Dump and restore personnel set to Y (yes) for a dump and restore. Set the parameter back to N (no) as the last step in the dump and restore. Set to N after the SWACT for a remote. Set to N before the final checkpoint image for a local. You can wait until the insertion is complete, to set to N in for a local.

When dump and restore is not in progress, leave the value of this parameter at the default value of N.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

DUMP_RESTORE_IN_PROGRESS (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS15

This parameter was introduced in BCS15.

E911_NPD_TO_NPA_CONV_IN_EFFECT

Parameter name

Enhanced 911 (E911) Number Planning Digit (NPD) to Numbering Plan Area (NPA) Conversion In Effect

Functional description

This parameter is associated with E911. The E911 provides central emergency service through a DMS-100 or 100/200 switch that functions as an E911 tandem.

This parameter controls the change of office parameter E911_PSAPS_USING_1_INFO_DIGIT in table OFCSTD from Y to N. This parameter controls the change of this office parameter during conversion from the 1-digit NPD to up to 16 NPAs. When this parameter is set to Y, deletion of tuples from table E911NPD is possible even with referenced NPDs.

Rules in provisioning



DANGER

If this parameter is set to Y, a series of actions begin that include setting office parameter E911_PSAPS_USING_1_INFO_DIGIT to N. This procedure is difficult to reverse and causes an E911 outage. Be sure you want to change this parameter before you continue.

Follow the following steps in the order listed when you change from 1-digit NPD to more than four NPAs:

1. Change one information digit LDT PSAPS to three information digits in table HUNTGRP.
2. Change the office parameter E911_NPD_TO_NPA_CONV_IN_EFFECT to Y.
3. Delete NPD tuples from table E911NPD.
4. Change the office parameter E911_PSAPS_USING_1_INFO_DIGIT to N.
5. Change the office parameter E911_NPD_TO_NPA_CONV_IN_EFFECT to N.

E911_NPD_TO_NPA_CONV_IN_EFFECT (end)

Range information

Minimum	Maximum	Default
		F

Activation

Immediate

Dependencies

Office parameter E911_NPD_TO_NPA_CONV_IN_EFFECT can change to Y. This parameter can change if entries in table HUNTGRP with the LDTPSAP option where ANISPILL = Y and NUMIDIGS = 1 are not present.

Office parameter E911_NPD_TO_NPA_CONV_IN_EFFECT can change to N if office parameter E911_PSAPS_USING_1_INFO_DIGIT = N.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in NA005B.

E911_PSAP_REC_PRE_WK_TIME

Parameter name

E911 Public Safety Answering Point Receipt Of Pre-wink Time

Functional description

This parameter is associated with the E911 feature that provides central emergency service through a DMS-100 or 100/200 switch. This switch functions as an E911 tandem.

The E911 tandem receives 911 calls from several end offices and routes the calls. The E911 tandem routes the calls to the appropriate public safety answering point (PSAP) for the geographical area or emergency service zone (ESZ) of the subscriber. This action ensures that subscribers receive the emergency services best suited to the location of the subscriber.

Rules in provisioning

Specify, in seconds, how long the E911 tandem office waits to receive the automatic number identification (ANI) wink signal. This office waits for the signal after the E911 tandem office seizes a trunk to the PSAP.

Range information

Minimum	Maximum	Default
4	20	4

Activation

Busy (BSY) and return to service (RTS) the line appearance on a digital trunk (LDT) node.

The system generates the warning message that follows if the parameter changes:

WARNING: A BSY RTS OF THE LDT NODE(S) AFFECTEDD IS
REQUIRED TO ACTIVATE CHANGES TO THE VALUE OF
THIS PARAMETER.

Dependencies

Does not apply

E911_PSAP_REC_PRE_WK_TIME (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS29

This parameter was introduced in BCS29.

E911_PSAPS_USING_1_INFO_DIGIT

Parameter name

E911 Public Safety Answering Points Using One Information Digit

Functional description

This parameter is associated with the E911 feature. The E911 feature provides central emergency service through a DMS-100 or 100/200 switch that functions as an E911 tandem. The E911 tandem receives 911 calls from several end offices and routes the calls. The E911 tandem routes the calls to the appropriate public safety answering point (PSAP) for the customers geographical area or emergency service zone (ESZ). This action ensures that subscribers receive the emergency services best suited to location of the subscriber.

This parameter specifies the type of Automatic Number Identification (ANI) format that the E911 tandem recognizes.

Rules in provisioning

Set the value of this parameter to Y (yes) if one or more PSAPs connect to the E911 tandem. Do this for PSAPs that connect to the E911 tandem with single digit ANI information digit format.

Set the value of this parameter to N (no) if all PSAPs use the three-digit information format.

If the parameter is set to Y, the E911 tandem can service calls from four numbering plan areas (NPA). The information digit format of the PSAPs that remain does not affect this restriction.

If this parameter is set to N, the E911 tandem can serve up to a maximum of 16 NPAs.

You can change office parameter E911_PSAPS_USING_1_INFO_DIGIT from Y to N under the following conditions:

- All E911 trunks are deleted from table TRKGRP.
- All E911 VFGs are deleted from table VIRTGRPS.

When this information is deleted, you can change office parameter E911_PSAPS_USING_1_INFO_DIGIT from N to Y.

E911_PSAPS_USING_1_INFO_DIGIT (continued)

Range information

Minimum	Maximum	Default
		Y

Activation

Immediate

Dependencies

Does not apply

Consequences

The system generates an error message if the parameter changes from Y to N and table E911NPD contains entries. You must delete the entries for E911 trunks that have serving numbering plan areas (SNPA) fields that correspond in table E911NPD. You also must delete all entries from table E911NPD before a change in the value of this parameter.

The system generates error message if the conditions that follow are present:

- The parameter changes from Y to N and entries in table HUNTGRP with field ANISPILL are set to Y.
- Field NUMIDIGS is set to 1.

Change field NUMIDIGS of table HUNTGRP to 3 before you change this parameter.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

E911_PSAPS_USING_1_INFO_DIGIT (end)

Parameter history

BCS29

This parameter was introduced in BCS29.

EA_REC_1ST_PRE_WK_TIME

Parameter name

Equal Access Receive First Pre-wink Time

Functional description

Switching units with equal access traffic between the access tandem and the carrier, trunk group type (ATC) require this parameter. A switch with software package NTX386AA (Toll with Access Tandem Switch) contains this parameter.

This parameter specifies the timeout for receiving the leading edge of the first wink signal, in 160-ms intervals.

Rules in provisioning

Specify the timeout for receiving the leading edge of the first wink signal, in 160-ms intervals.

Range information

Minimum	Maximum	Default
1	255	50

Activation

Busy (BSY) and return to service (RTS) the affected trunks.

Dependencies

See office parameters EA_REC_MAX_WK_TIME and EA_REC_SUB_PRE_WK_TIME in table OFCTSD.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

EA_REC_1ST_PRE_WK_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS14

This parameter was introduced in BCS14.

EA_REC_MAX_WK_TIME

Parameter name

Equal Access Receive Maximum Wink Time

Functional description

Switching units with equal access traffic between the access tandem and the carrier, trunk group type ATC require this parameter. Switches with software package NTX386AA (Toll with Access Tandem Switch) contain this parameter.

This parameter specifies the maximum time for recognition of wink, in 10-ms intervals.

Rules in provisioning

Specify the maximum time for recognition of wink, in 10-ms intervals.

Range information

Minimum	Maximum	Default
1	255	150

Activation

Busy (BSY) and return to service (RTS) the LMs of the switching unit or reload the static data in the LTCs.

Dependencies

See office parameters EA_REC_1ST_PRE_WK_TIME and EA_REC_SUB_PRE_WK_TIME in table OFCTSD.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

EA_REC_MAX_WK_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS14

This parameter was introduced in BCS14.

EA_REC_SUB_PRE_WK_TIME

Parameter name

Equal Access Receive Subsequent Pre-wink Time

Functional description

Switching units with equal access traffic between the access tandem and the carrier, trunk group type ATC require this parameter. Switching units with software package NTX386AA (Toll with Access Tandem Switch) contain this parameter.

This parameter specifies the timeout for receiving the leading edge of next wink signals, in 160-ms intervals.

Rules in provisioning

Specify the timeout for receiving the leading edge of next wink signals, in 160-ms intervals.

Range information

Minimum	Maximum	Default
1	255	100

Activation

Busy (BSY) and return to service (RTS) affected trunks.

Dependencies

See office parameters EA_REC_1ST_PRE_WK_TIME and EA_REC_MAX_WK_TIME in table OFCTSD.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

EA_REC_SUB_PRE_WK_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS14

This parameter was introduced in BCS14.

EAEO_REC_1ST_PRE_WK_TIME

Parameter name

Equal Access End Office Receive First Pre-wink Time

Functional description

This parameter specifies the time, in 160 ms intervals, of the first pre-wink delay associated with outpulsing from an equal access end office (EAEO).

EAEO_REC_1ST_PRE_WK_TIME is not supported by GSF031 release for GSF agents.

Provisioning rules

Specify the time, in 160 ms intervals, of the first pre-wink delay associated with outpulsing from an EAEO.

Range information

Minimum	Maximum	Default
0	255	50 (8 seconds)

Activation

Immediate

Dependencies

See parameter EAEO_REC_2ND_PRE_WK_TIME in table OFCSTD.

Consequences

Not applicable

Verification

Not applicable

Memory requirements

This parameter has no memory impact.

Dump and restore rules

Copy the existing value of this parameter when doing a dump and restore.

EAO_REC_1ST_PRE_WK_TIME (end)

Parameter history

GSF031

Added text stating that this parameter is not supported for GSF agents in this release.

BCS15

This parameter was introduced.

EAEO_REC_2ND_PRE_WK_TIME

Parameter name

Equal Access End Office Receive Second Pre-wink Time

Functional description

This parameter specifies the time of the second pre-wink delay associated with outpulsing from an Equal Access End Office (EAEO). The parameter measures the time in 160-ms intervals.

Rules in provisioning

Specify the time, in 160-ms intervals, of the second pre-wink delay associated with outpulsing from an EAEO.

Range information

Minimum	Maximum	Default
1	255	175 (28 seconds)

Activation

Immediate

Dependencies

See parameter EAEO_REC_1ST_PRE_WK_TIME in table OFCSTD.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

EAO_REC_2ND_PRE_WK_TIME (end)

Parameter history

BCS15

This parameter was introduced in BCS15.

FREEZE_ON_REINIT

Parameter name

Freeze on Reinitialization

Functional description

The purpose of this parameter is to freeze the inactive side of the switch during restarts.

Rules in provisioning

If this parameter is set to Y (yes), the inactive side freezes when the active side goes for a restart. If this parameter is set to Y, the first attempt to use the MAP command SYNC that follows a system initiated restart displays the following warning message:

```
THE CPUS ARE OUT OF SYNC FOLLOWING A SYSTEM INITIATED
RESTART. ENSURE THAT ALL ESSENTIAL DATA ARE COLLECTED AND
APPROPRIATE SUPPORT GROUPS ARE CONTACTED BEFORE RE-SYNCING.
```

When this warning message appears, the required action varies according to operating company policy. The recommended action is that you contact the emergency support group (TAS). Take this action because this message indicates that a system restart occurred. Both NT-40 and SuperNode switches display this message.

When this parameter at the default of N (no) the inactive side does not freeze when the active side goes for a restart.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

FREEZE_ON_REINIT (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS18

This parameter was introduced in BCS18.

HBS_SPOOLER_ACT

Parameter name

Hybrid Billing Server (HBS) Spooler Activate

Functional description

This parameter specifies if the Distributed Processing Peripheral (DPP) Data Spooler is now in an active state.

When the HBS software is first introduced into a load, the DPP Data Spooler is in a deactivated state. An example of HBS software first introduced into a load is a switch booted from an initial image. Manually activate the Spooler (set HBS_SPOOLER_ACT to TRUE). Use the ACT command from the HBSMTD command directory if the functionality is required. You can use the DEACT command from the HBSMTD command directory to halt HBS file transfer and deactivate the Spooler (set HBS_SPOOLER_ACT to FALSE).

When you activate the Spooler, the Spooler must remain active across BCS upgrade applications. Office parameter HBS_SPOOLER_ACT is responsible for this activity across BCS upgrade applications to the upgraded communications module (CM).

Rules in provisioning

Does not apply

Range information

Minimum	Maximum	Default
		FALSE

Activation

To activate or deactivate the DPP Data Spooler, use the ACT and DEACT commands from the HBSMTD command directory. Activation is immediate. Deactivation occurs on completion of the current file transfer.

Note: Direct modification of the HBS_SPOOLER_ACT parameter, does not result in immediate change in the activity state of the DPP Data Spooler. The activity state of the Spooler is either active or inactive. The value of HBS_SPOOLER_ACT instructs the system when to activate the DPP Data Spooler across a restart or BCS upgrade. The value of

HBS_SPOOLER_ACT (end)

HBS_SPOOLER_ACT activates or leaves Spooler in a deactivated state, based on the current value of the parameter.

Dependencies

Does not apply

Consequences

Does not apply

Verification

The QXFER command from the CI level of the MAP displays the current Data Spooler conditions. To verify the current value of this parameter, use the QXFER command from the CI level of the MAP. If the QXFER command response status field value is Deactivated, the value of office parameter HBS_SPOOLER_ACT is False. For all other status field values, the value of HBS_SPOOLER_ACT is True.

Memory requirements

This parameter requires 1 bit of memory.

Dump and restore rules

Does not apply

HM_INTERPULSE_TIME

Parameter name

Hotel/Motel Interpulse Time

Functional description

Switches with the Hotel/Motel Register Pulsing feature use this parameter. This parameter specifies the register interpulse timing for hotel/motel lines in 10-ms intervals.

Rules in provisioning

Specify the register interpulse timing for hotel/motel lines in 10-ms intervals.

Range information

Minimum	Maximum	Default
0	255	5 (50 milliseconds)
<p>The minimum that the code permits is 0 (zero), but this value results in behavior that is not predictable. Recommended minimum is 1.</p>		

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

HM_INTERPULSE_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

HM_PULSE_TIME

Parameter name

Hotel/Motel Pulse Time

Functional description

Switches with the Hotel/Motel Register Pulsing feature use this parameter. This parameter specifies the length of register pulses for hotel/motel lines in 10-ms intervals.

Rules in provisioning

Specify the length of register pulses for hotel/motel lines in 10-ms intervals.

Range information

Minimum	Maximum	Default
0	255	5 (50 ms)
Minimum that the code permits is 0 (zero). Recommended minimum is 1.		

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

HM_PULSE_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

IMMED_PRE_DIAL_DELAY

Parameter name

Two-way Immediate Start Trunks Pre-dial Delay

Functional description

This parameter only applies to two-way immediate start and outgoing trunks. This parameter specifies the delay between seizure and outpulsing of digits, in 10-ms intervals.

Rules in provisioning

For trunk IBNTO trunk groups, the value of this parameter must be set to 200 (2 s). Trunk IBNTO trunk groups provide an interface between the Torrejon SL-100 and the CAIA international gateway exchange in Madrid, Spain.

The normal recommended value is 15 (140 to 150 ms).

Range information

Minimum	Maximum	Default
8	255	15

Activation

If the peripheral module (PM) does not connect to an LTC, issue a busy (BSY) and return to service (RTS) on the PM. This action activates a change to this parameter.

If the peripheral module connects to an LTC, put the LTC through an RTS sequence to activate a change to this parameter. Either BSY and RTS both sides of the peripheral or perform a double warm SWACT. These procedures update the active and inactive sides.

Dependencies

For information on assignment of immediate start to trunk groups, see table TRKSGRP.

Consequences

Does not apply

IMMED_PRE_DIAL_DELAY (end)

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

ISDD_OM_THRESHOLD

Parameter name

Incoming Start-to-dial Delay Operational Measurements Threshold

Functional description

This parameter specifies the delay threshold for the incoming start-to-dial delay operational measurement (OM) group ISDD. This threshold determines when the delay field for signal types DP, DT, and MF increase.

The ISDD measurements indicate the grade of service (GOS) that the DMS offers to calls that arrive on incoming and two-way trunk groups.

The ISDD does not cover the following trunk types:

- maintenance
- foreign exchange (FX)
- nailed-up
- common channel signaling
- Integrated Services Digital Network (ISDN)

Digital trunk controllers (DTC), line trunk controllers (LTC), and remote cluster controllers (RCC) collect the ISDD measurements.

The values provide for international values of 0.5 s and 1 s (CCITT recommendations) and for the LSSGR standard value of 3 s.

Rules in provisioning

Set the value to ONEHALF_SEC (0.5 s) or ONE_SEC (1 s), if the system requires a value other than the default value of THREE_SEC (3 s).

Range information

Minimum	Maximum	Default
		THREE_SEC

Activation

Immediate

ISDD_OM_THRESHOLD (end)

Activation of a change to this parameter value occurs after the next OM class accumulation period.

Dependencies

The use of the OM history feature to define 5 min OM measurement classes is not recommended. The OM history feature is office parameter OMHISTORYON in table OFCOPT. If this feature is ON, ISDD data goes to the central control (CC) every 5 min instead of every 15 min.

Consequences

A change in the threshold value or collection interval invalidates the delay fields for the period after the first OM class accumulation. For a change to the threshold value, some delays use the old threshold value to increment. Some delays use the new threshold value to increment.

Verification

This parameter specifies the delay threshold for OM group ISDD. See the *Operational Measurement Reference Manual* for a description of OM group ISDD.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

CSP03

The restart requirement was removed in CSP03.

BCS26

This parameter was introduced in BCS26.

MAX_COLDS

Parameter name

Maximum Number of Cold Restarts

Functional description

The system drops synchronization and causes a switch of activity if the number of cold restarts exceeds this parameter. This parameter specifies the number of cold restarts that can fail to bring the system into successful operation. When the system flashes A1 for at least 10 min the system is in successful operation.

Rules in provisioning

The recommended value for this parameter is the default value. The operating company must consult Northern Telecom to modify the value.

Range information

Minimum	Maximum	Default
0	32767	1

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

MAX_EMERG_ICI

Parameter name

Maximum Number Of Emergency Incoming Call Identification

Functional description

A switching unit with the Integrated Business Network (IBN), where the feature alerts the attendant to an emergency enqueued call, requires this parameter.

This parameter specifies the maximum quantity of incoming call identifications (ICI) that can be assigned with the emergency feature on the attendant console.

Rules in provisioning

In offices without this feature, this parameter is set to zero (0). Never change this parameter in an office without this feature.

In offices with this feature, this parameter is set to five (5). To change this parameter consult Northern Telecom.

Range information

Minimum	Maximum	Default
0	5	5

Activation

Immediate

Dependencies

An ICI is an emergency ICI if the ICI in table ICIDATA has the EMERG option assigned.

Consequences

Does not apply

Verification

Does not apply

MAX_EMERG_ICI (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

MAX_LOCKED_TRAPS

Parameter name

Maximum Number of Locked Traps

Functional description

This parameter specifies the number of locked traps that can occur in any 1-min period. The system causes a warm restart if the number of locked traps exceeds the value of the parameter. The purpose of this parameter is to provide recovery if corruption of critical data occurs.

Rules in provisioning

The recommended value for this parameter is the default value. The operating company must consult Northern Telecom to modify this value.

Range information

Minimum	Maximum	Default
		10

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

MAX_SANITY_TIMEOUTS

Parameter name

Maximum Number of Sanity Timeouts

Functional description

This parameter specifies the number of sanity timeouts that can occur in any 1-min period. The system causes a warm restart if the number of sanity timeouts exceeds the value of this parameter. The purpose of this parameter is to provide recovery if a failure of the system scheduler occurs.

Rules in provisioning

The recommended value for this parameter is the default value. The operating company must consult Northern Telecom to modify this value.

Range information

Minimum	Maximum	Default
0	32767	1

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

MAX_WARMS

Parameter name

Maximum Number of Warm Restarts

Functional description

The system causes a cold restart if the number of warm restarts exceeds the value of this parameter. This parameter specifies the number of warm restarts that can fail to bring the system into successful operation. When the system flashes A1 for at least 3 min the system is in successful operation.

Rules in provisioning

The recommended value for this parameter is the default value. The operating company must consult Northern Telecom to modify this value.

Range information

Minimum	Maximum	Default
0	32767	1

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

MAXIMUM_ONHK_FLASH

Parameter name

Maximum On-hook Flash.

Functional description

A DMS-100 switch in Europe requires this parameter. This parameter specifies the maximum time period for the line state on-hook flash in the line concentrating module (LCM) and in the computing module (CM). This parameter specifies the time in 10-ms intervals.

The value of MAXIMUM_ONHK_FLASH compensates for the flash timer in the call duration calculation. The field CALLDUR requires the value of the final call duration value in the call duration record.

Rules in provisioning

The recommended value for a DMS-100 switch in Europe is 60 (600 ms).

For offices that require only timed break recall feature activation, set the value of this parameter to 14.

If the switch is not a DMS-100 in Europe, leave the value at the default of 120.

Range information

Minimum	Maximum	Default
0	255	120 (1200 ms)

Activation

The peripheral module (PM) does not have to connect to a line trunk controller (LTC). To activate this change, this parameter issues a busy (BSY) sequence and return to service (RTS) sequence on the PM.

If the PM connects to an LTC, put the LTC through an RTS sequence to activate a change to this parameter. Perform a BSY and RTS sequence on both sides of the PM, or perform a double warm switch of activity (SWACT). These actions update both the active and inactive sides.

To send parameter information to the LCM, perform BSY and RTS sequences one unit at a time. This action enables data to download from the central controller.

MAXIMUM_ONHK_FLASH (end)

Dependencies

See parameter MINIMUM_ONHK_FLASH in table OFCSTD to determine the minimum time period for the line state on-hook flash. The value of parameter MAXIMUM_ONHK_FLASH must be greater than the value of parameter MINIMUM_ONHK_FLASH.

Specify the RGEQUIP value in field RINGDATA of table LCMINV. This action enables the system to send this parameter value to the LCM.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires one word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

WT011

The CM as well as the PM use this parameter.

EUR006

This parameter was included in the calculation of call duration.

BCS19

This parameter was introduced in BCS19.

MIN_REC_DP_PULSE_WD

Parameter name

Minimum Received Dial Pulse Width

Functional description

This parameter allows variable settings for the minimum received dial pulse (DP) width on DP analog trunks mounted on a trunk module (TM).

Rules in provisioning

The value is defined in 5-ms intervals.

At present, the hardware can support a minimum value of 10 ms.

Do not change this timing unless the connecting switching units also received this timing.

Range information

Minimum	Maximum	Default
2	255	5

Activation

To activate a change to this parameter, busy and return to service the peripheral module (PM).

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

MIN_REC_DP_PULSE_WD (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

MINIMUM_ONHK_FLASH

Parameter name

Minimum On-hook Flash

Functional description

A DMS-100 switch in the United Kingdom requires this parameter.

This parameter specifies the minimum time period in 10-ms units for the line state on-hook flash in the line concentrating module (LCM).

Rules in provisioning

The recommended value for a DMS-100 switch in the United Kingdom is 7 (70 ms).

If the switch is not a DMS-100 in the United kingdom, leave the value at the default value 20.

Range information

Minimum	Maximum	Default
0	255	20 (200 ms)

Activation

If the peripheral module (PM) does not connect to an LTC, issue a busy (BSY) and return to service (RTS) on the PM. This action activates a change to this parameter.

If the PM connects to an LTC, put the LTC through an RTS sequence to activate a change to this parameter. Perform a BSY and return to RTS sequence on both sides of the PM, or perform a double warm SWACT. These actions update both the active and inactive sides.

To send this parameter information to the LCM, BSY and RTS one unit at a time. This action enables data to download from the central control (CC).

Dependencies

See parameter MAXIMUM_ONHK_FLASH in table OFCSTD, to determine the maximum time period for the line state on hook flash. The value of this parameter must be less than the value of MAXIMUM_ONHK_FLASH.

MINIMUM_ONHK_FLASH (end)

Specify the value RGEQUIP in field RINGDATA of table LCMINV to enable this parameter value to transfer to the LCM.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS19

This parameter was introduced in BCS19.

MK_BRK_DP_OUTPULSING

Parameter name

Make/Break Dial Pulse Outpulsing

Functional description

This parameter allows for variable settings for the make and break values. These parameter values apply to outpulsing on dial pulse (DP) ANALOG trunks on a trunk module (TM).

Rules in provisioning

This parameter requires two values: the break and the make.

The values are defined in 5-ms intervals.

The number entered + 1 equal the number of 5-ms intervals. For example, a value of 0 produces a 5-ms interval. A value of 1 produces a 10-ms interval and a value of 2 produces a 15-ms interval.

At present, the hardware can support only a minimum value of 10 ms.

Do not change this timing unless the connecting switching units also received the timing.

The break default value is 11 (60 ms), and the make default value is 7 (40 ms).

Range information

Minimum	Maximum	Default
1	15	11 (break) 7 (make)

Activation

To activate a change to this parameter, busy (BSY) and return to service (RTS) the peripheral module (PM).

Dependencies

Does not apply

Consequences

Does not apply

MK_BRK_DP_OUTPULSING (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS14

This parameter was introduced in BCS14.

MTCBASE_EXTRAMSG

Parameter name

Maintenance Base Extra Messages

Functional description

This parameter specifies the number of additional messages the Maintenance Base (MTCB) Subsystem requires.

The additional messages allow the Maintenance Base Subsystem to use less of the central processing unit (CPU) time.

Rules in provisioning

Only Nortel personnel can change the value of this parameter.

The system recommends a value of 255 for all SuperNode switches.

Range information

Minimum	Maximum	Default
100	255 (NT40) 1024 (SuperNode)	100

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

An element requires 170 bytes for each SuperNode switch. An element requires 36 words for each NT40 switch.

MTCBASE_EXTRAMSG (end)

Dump and restore rules

If the value of this parameter is less than 100, set the value to 100. If the value is greater than 100, copy the current value of this parameter when you perform a dump and restore.

Parameter history

CSP06

The parameter MTCBASE_EXTRAMSG is now hard-coded to the maximum recommended value of 1024. The user cannot access this parameter when the parameter is hard-coded.

CSP02

The restart activation changes immediately for increases in CSP02.

BCS36

The maximum value is increased for SuperNode in BCS36.

MTCBASE_SCPD

Parameter name

Maintenance Base Number of Scratch Pads

Functional description

This parameter specifies the number of scratch pads the maintenance base (MTCB) subsystem requires.

The system generates an MTCB102 log when scratch pads are not available. Increase the number of scratch pads to prevent a degradation of maintenance activity and the generation of this log.

When scratch pads are not available, the system uses more time to process maintenance actions.

Rules in provisioning

Only Nortel personnel can change the value of this parameter.

The recommended default value for NT40 switching units is 225.

The recommended default value for SuperNode switching units is 1023.

The recommended value 2047 for all SuperNode offices with the enhanced network (ENET).

The maximum number of scratch pads for NT40 is 511. The maximum number of scratch pads for SuperNode is 2047.

Range information

Minimum	Maximum	Default
225 (NT40)	511 (NT40)	225 (NT40)
1023 (SuperNode)	2047 (SuperNode)	1023 (SuperNode)

Activation

Immediate

Dependencies

Does not apply

MTCBASE_SCPD (end)

Consequences

A small number of scratch pads reduces the store requirement and increases the time to complete maintenance activities. An increase in value requires more store and improves the real time operation of MTCBase. To increase the number of scratch pads, make sure that enough memory is available for allocation.

Normal operations require only a few scratch pads. The MTCBase handles a large number of requests for maintenance during severe switching unit faults. The system requires a scratch pad to process a maintenance request. If a scratch pad is not available, the request must wait until one is available.

Verification

Use the non-resident CI module MTCDBG. Type DSTAT.

Memory requirements

A scratch pad in an NT40 requires 204 words (408 bytes) of memory. A scratch pad in SuperNode requires 252 words (504 bytes) of memory.

Dump and restore rules

For NT40 switches, if the value of this parameter is under 225, set the value to 225. If the value is over 225, copy the current value of parameter when you perform a dump and restore.

For SuperNode switches, if the value of this parameter is under 1023, set the value to 1023. If the value is over 1023, copy the current value.

Parameter history

CSP02

The restart activation requirement changes for increases in parameter value in CSP02.

BCS16

This parameter was introduced in BCS16.

NEW_CF6P_CCT

Parameter name

New Six-port Conference Circuits

Functional description

Use this parameter with the Integrated Business Network (IBN). This parameter indicates when the switching unit has NT3X67AA conference circuits.

Rules in provisioning

If the switching unit has NT3X67AA conference circuits, change the value of this parameter to Y (yes).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

NEW_PS_PIPE

Parameter name

New Program Store Pipe

Functional description

This parameter indicates when the switching unit has the 4 megaword memory program store shelf.

Rules in provisioning

If the 4 megaword program store shelf has NT code 3X32, enter the value of Y (yes).

If the 4 megaword program store shelf does not have NT code 3X32, enter the value of N (no).

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

NO_ESB_RINGBACK_CYCLES_IDENT

Parameter name

Number of Emergency Service Bureau Ringback Cycles Identified

Functional description

The local and combined local and toll switching units require this parameter. This parameter indicates the number of 6-s ringing cycles on lines identified for the emergency service bureau (ESB) timed ringback feature.

Rules in provisioning

For switching units with superimposed or frequency ringing, the range of values is from 2 to 7.

For switching units with coded ringing, the value is 0.

Range information

Minimum	Maximum	Default
0	7	2

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

NO_ESB_RINGBACK_CYCLES_NONIDENT

Parameter name

Number of Emergency Service Bureau Ringback Cycles Non-identifiable

Functional description

The local and combined local and toll switching units require this parameter. This parameter indicates the number of 6-s ringing cycles for each party. The callers are on non-identifiable lines for emergency service bureau (ESB) timed ringback.

Rules in provisioning

For switching units with superimposed or frequency ringing, the range of values is from 2 to 7.

When the value is 0, the system disables the feature.

Range information

Minimum	Maximum	Default
0	7	2

Activation

Immediate

Dependencies

Does not appl.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

NO_ESB_RINGBACK_CYCLES_NONIDENT (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

NORTEL_ID

Parameter name

NORTEL_ID

Functional description

This parameter contains the different identifier for the switch. Northern Telecom (Nortel) assigns this identifier and the parameter is read-only.

Rules in provisioning

Does not apply

Range information

Does not apply

Activation

Does not apply

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

Does not apply

Dump and restore rules

Does not apply

Parameter history

This parameter was introduced in CSP04.

NUMOUTBUFFS

Parameter name

Number of output buffers

Functional description

Only NT40 switches require this parameter. This parameter does not appear in SuperNode loads. The parameter specifies the number of output buffers (OUTBUFFS) the input/output (I/O) system uses when the central message controller (CMC) is busy.

When the CMC cannot handle a message immediately, an outgoing buffer holds a message to a peripheral.

Rules in provisioning

The recommended number of OUTBUFFS is 75.

Range information

Minimum	Maximum	Default
75	4000 (programmed) 32767 (reserved)	75

Activation

Warm restart

Dependencies

Does not apply

Consequences

Does not apply

Verification

For the OMs associated with this parameter, refer to measurements OUTBSZ, OUTBOVFL in OM group CP, and OUTBHI in OM group CP2.

Measurement OUTBHI records the maximum number of output buffers in use at the same time during the current transfer period.

NUMOUTBUFFS (end)

To verify that enough output buffers are allocated, use CI command OMSHOW CP ACTIVE. Read the measurement OUTBOVFL in OM group CP.

There are not enough provisions when the OUTBOVFL measurement is other than zero.

Refer to the *Operational Measurements Reference Manual* for a description of OM groups CP and CP2.

Memory requirements

An output buffer requires 45 words of memory.

Dump and restore rules

If the value is lower than 75, set the value to 75. If the value is greater than 75, copy the current value when you perform a dump and restore.

Parameter history

CSP02

Office parameter NUMOUTBUFFS is not valid for CSP02 software.

OFFICETYPE**Parameter name**

Office Type

Functional description

This parameter indicates the engineered office. This parameter controls the operational measurements (OM) registers for the items that require measurement.

Rules in provisioning

Select the parameter value that corresponds to your office type from the following table:

Office parameter values (Sheet 1 of 2)

Switching unit	Value
Default	NOOFFICE
Combined local/toll	OFFCOMB
Combined local/toll with wireless	OFFCOMBLWW
Combined local/toll with TOPS	OFFCOMBTOPS
Combined local/toll with International TOPS (ITOPS)	OFFCOMBITOPS
Austrian combined local/toll	OFFCOMBOESD
Combined local/toll and gateway	Combined DMS-300/250
DMS-MTX with DMS-100i capabilities	OFFMTX100I
Local, SL-100	OFF100
Toll with TOPS	OFF200TOPS
Toll	OFF200
DMS-250	OFF250
DMS-250/SL-100, SL-100N	OFF250IBN
DMS-500	OFF500
Gateway	OFF300

OFFICETYPE (continued)

Office parameter values (Sheet 2 of 2)

Switching unit	Value
Austrian local	OFF100OESD
Austrian toll	OFF200OESD

Range information

Minimum	Maximum	Default
		NOOFFICE

Activation

A reload restart is needed to activate this parameter. Consult the *NORESTARTSWACT/MTCWACT User's Guide*, 297-1001-546.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

NA008

The OFFCOMBLWW parameter was added as a value for office parameter OFFICETYPE in NA008.

OFFICETYPE (end)

BCS36

The NORESTARTSWACT activation was added in BCS36.

OPM_CHARGE_DURATION

Parameter name

Outside Plant Module Charge Duration

Functional description

This parameter specifies the length of time, in hours, that a battery string pair remains on the charge bus. The range of values for this parameter is 0 to 20.

Rules in provisioning

The recommended value for YUASA batteries is the default value. If other battery types are supplied, consult the personnel responsible for the product. Ask the personnel about the number of hours to charge the batteries each week for the maximum life span.

Range information

Minimum	Maximum	Default
0	20	7

Activation

Immediate

Dependencies

Does not apply

Consequences

Do not overcharge the batteries. The batteries can break and crack.

Verification

The outside plant module power and environmental system (OPMPES) level of the MAP terminal displays the current states of the battery strings. After the indicated number of hours on the charge bus, the states of the batteries change to OCC. The batteries are open-circuited before the batteries are returned to the load bus.

Memory requirements

This parameter requires 1 word of memory.

OPM_CHARGE_DURATION (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS31.

OPM_CHARGE_START_TIME

Parameter name

Outside Plant Module Charge Start Time

Functional description

This parameter specifies the hour of day to connect the strings to the charge bus during the charge and test/charge cycles. This parameter ranges from 0 to 23. The range signifies the time of day from 00:00 to 23:00.

Rules in provisioning

Only charge the batteries at a low temperature, to avoid damage. The recommended start time is 23:00 to start the charge process at 11:00 p.m. Charge the battery at this time because the outside plant module (OPM) cools from the heat of the day. Start time must not interfere with the REX tests. The coolest part of the day can be different for other office sites. This factor can determine the time of day at which the battery charge occurs.

Range information

Minimum	Maximum	Default
0	23	23

Activation

Immediate

Dependencies

Does not apply

Consequences

If the battery strings charge when the temperature is too high, the batteries can crack or break.

Verification

The OPM Power and Environmental System (OPMPES) level of the MAP displays the current states of the battery strings. At the specified start time each day (Monday to Friday) the appropriate battery string pair changes to state CHG. The battery string pair changes when the battery rotation audit is enabled and the pair is equipped.

OPM_CHARGE_START_TIME (end)

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS31.

OPM_DISCHARGE_TIME

Parameter name

Outside Plant Module Discharge Time

Functional description

This parameter specifies the length of discharge through the test load resistor in the 8X02 card, in 15-min intervals. The value 0 represents 0 min of discharge during the test charge cycle and 4 represents 60 min of discharge.

Rules in provisioning

Specify the length of discharge through the test load resistor in the 8X02 card, in 15-min intervals.

Range information

Minimum	Maximum	Default
0	4	4

Activation

Immediate

Dependencies

Does not apply

Consequences

If the discharge period is not long enough, the test cannot detect battery strings with bad cells.

Verification

The OPMPES level of the MAP shows the current states of the battery strings. If you enable the audit and set ENABATST to Y (yes), the states of the battery strings of the pair change. The test/charge cycle appears as DIS for the specified number of minutes on Monday. The number of the pair in the test/charge cycle is the same as the AUDIT WEEK number on the display.

Memory requirements

This parameter requires 1 word of memory.

OPM_DISCHARGE_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS31

This parameter was introduced in BCS31.

OPM_MIN_CHG_VOLT

Parameter name

Outside Plant Module Minimum Charge Voltage

Functional description

This parameter specifies the minimum measured voltage a battery string requires to connect to the charge bus. If the voltage of a string is less than the value of this parameter, the rotation schedule calls for a charge. The charge is from the charge bus. The system bypasses the charge cycle and generates log report PES115.

The load bus charges new batteries to reach the required voltage. The recommended value, in tenths of volts, is -420 or -42.0 volts.

You must replace old batteries.

Rules in provisioning

The range of allowed values prevents specification of any value that affects the charge bus.

Range information

Minimum	Maximum	Default
-400	-500	-420

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

You can attempt to move a string with a voltage greater than this value to the charge bus. Make the attempt through the battery rotation audit or the OPMPECHARGE command. If the attempt occurs, the system generates a

OPM_MIN_CHG_VOLT (end)

PES115 and the state of the string does not change. For example, a change does not occur for a voltage of -40.0, which exceeds -42.0 volts.

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS31**

This parameter was introduced in BCS31.

OPM_VOLT_TST_CHG

Parameter name

Outside Plant Module Volt Test Charge

Functional description

This parameter specifies the voltage threshold for the battery voltage test that follows the open-circuit interval after the charge period. A value of 0 indicates that the test is not required. The range for this parameter is -600 to 0.

The default value, -509, is in tenths of volts or -50.9 volts. You must specify this value for the accuracy of the metallic test unit (MTU). The value in use for OPMs with an line test unit (LTU) adjusts as described in parameter OPM_VOLT_TST_LTU_ADJUST-MENT in Table OFCSTD.

Rules in provisioning

The recommended value is the default value for YUASA batteries.

Range information

Minimum	Maximum	Default
0	-600	-509

Activation

Immediate

Dependencies

Does not apply

Consequences

The system can specify a wrong value for the batteries in use. If this condition occurs, the system can mark good battery strings as failed. The system does not detect bad battery strings or notify maintenance personnel if a wrong value is specified.

OPM_VOLT_TST_CHG (end)

Verification

The system tests each equipped battery string one time each month. The system does not test each equipped battery string when the following conditions occur:

- the audit is disabled
- ENABATST is N (no)
- an AC failure occurs
- other special condition that prevents charging occurs

The system marks battery strings that fail this test as failed. The system removes the failed battery strings from rotation and generates log report PES117.

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS31**

This parameter was introduced in BCS31.

OPM_VOLT_TST_DIS

Parameter name

Outside Plant Module Volt Test Discharge

Functional description

Parameter Outside Plant Module Volt Test Discharge (OPM_VOLT_TST_DIS) specifies the voltage threshold for the battery voltage test. The battery voltage test follows the discharge interval. Do not perform the test or the discharge for a specified value of 0.

The default value of -495 is in tenths of volts or -49.5 volts. The range for this parameter is -600 to 0.

Specify this value to make sure the metallic test unit (MTU) is accurate. The value for OPMs with a line test unit (LTU) is adjusted as described in parameter OPM_VOLT_TST_LTU_ADJUSTMENT in Table OFCSTD.

Rules in provisioning

The recommended value for YUASA batteries is the default value.

Range information

Minimum	Maximum	Default
0	-600	-495

Activation

Immediate

Dependencies

Does not apply

Consequences

If you specify a value that is not correct for the batteries in use, the system can mark good battery strings as failed. The system does not detect bad battery strings are not detected or notify maintenance personnel if you specify a value that is not correct.

OPM_VOLT_TST_DIS (end)

Verification

The system tests each equipped battery string one time each month. The system does not test each equipped battery string when the following conditions occur:

- the audit is disabled
- ENABATST is N (no)
- an AC failure occurs
- other special condition that prevents charging occurs

The system marks battery strings that fail two consecutive tests as failed. The system removes the failed battery strings from rotation and generates log report PES117.

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS31**

This parameter was introduced in BCS31.

OPM_VOLT_TST_LTU_ADJUSTMENT

Parameter name

Outside Plant Module Volt Test Line Test Unit Adjustment

Functional description

This parameter specifies the adjustment in tenths of volts. The adjustment applies to the test values for the metallic test unit. This adjustment determines the test values for comparison with values that the line test unit measures. The default value 10 represents 1.0 V.

The value for the metal test unit (MTU) increases by the value of this parameter. The result of this addition is rounded to an integer value volt. For example, the OPM_VOLT_TST_CHG default value of -509 becomes -.490 or $50.9 + 1.0 = -49.9$, rounded to -49.0.

Rules in provisioning

The recommended value to compensate for LTU DC volt measurement accuracy is the default value.

Range information

Minimum	Maximum	Default
0	50	10

Activation

Immediate

Dependencies

Does not apply

Consequences

When the value specified is wrong, the test can mark good battery strings as failed. The test does not always detect bad strings and notify maintenance personnel.

Verification

For OPMs provisioned with LTUs, not MTUs, the measured values of the battery strings must fail the tests. This event occurs when the measured values fail the adjusted values computed using this value.

OPM_VOLT_TST_LTU_ADJUSTMENT (end)

Memory requirements

Each office requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

This parameter was introduced in BCS31.

OPM_VOLT_TST_OCC

Parameter name

Outside Plant Module Volt Test Open Circuit

Functional description

This parameter specifies the voltage threshold for battery voltage tests after the 24h open-circuit period for test/charging cycle start. A value 0 (zero) indicates that the test must not start. The open-circuit period occurs.

The value for this office parameter is in tenths of volts. The accuracy of the metal test unit (MTU) requires specification of the default value -504, which represents -50.4 V. Parameter OPM_VOLT_TST_LTU_ADJUSTMENT in table OFCSTD describes an adjustment for the value for OPMs with an LTU. The range for OPM_VOLT_TST_OCC is 0 to -600.

Rules in provisioning

The recommended value for YUSA batteries is the default value.

Range information

Minimum	Maximum	Default
0	-600	-504

Activation

Immediate

Dependencies

Does not apply

Consequences

When the value specified is wrong for the batteries in use, the test can mark good battery strings as failed. The test does not always detect bad battery strings and notify maintenance personnel.

OPM_VOLT_TST_OCC (end)

Verification

The system tests each equipped battery string one time a month. The test does not occur if one of the following conditions applies:

- the audit is disabled
- ENABATST is N (no)
- an AC failure or special condition that prevents charging occurs

The system generates a PES117 log when battery strings fail two consecutive tests. The battery strings are marked as failed and are removed from rotation.

Memory requirements

This parameter requires 1 word of memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history**BCS31**

This parameter was introduced in BCS31.

PM180

Parameter name

PM180 Messages

Functional description

This parameter specifies if an XMS peripheral module (XPM) reports exceptions (PM180 messages).

The PM180 messages report problems on new peripherals that do not affect service.

Rules in provisioning

When the value of this parameter is Y (yes), the system reports PM180 messages.

When the value of this parameter is N (no), the system does not report PM180 messages.

The recommended value for all MSL-100 switching units is N. The MSL-100 is a private branch exchange (PBX).

The recommended value for all other switching units is Y.

Range information

Minimum	Maximum	Default
		Y

Activation

Use the command XPMLOGS to query, enable, or disable the PM180 messages reports for each XPM.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS16

This parameter was introduced BCS16.

PRE_ANI_SPILL_DELAY

Parameter name

Pre-automatic Number Identification Spill Delay

Functional description

Switching units with outgoing trunks that perform wink and reversal signal calling number outpulsing require this parameter.

This parameter specifies the delay between receiving the calling number request signal (wink), and the outpulsing of the calling number.

Rules in provisioning

Specify the delay between receiving the calling number request signal (wink), and the outpulsing of the calling number, in 10-ms intervals.

The recommended value is 15.

Range information

Minimum	Maximum	Default
1	255	15

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

PRE_ANI_SPILL_DELAY (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

PRE_SND_WK_DD_TIME

Parameter name

Pre-send Wink Delay Dial Time

Functional description

This parameter specifies the delay, in 10-ms intervals, before the system sends a wink or delay dial signal.

The off-hook to on-hook transition (start dial) sends the wink and delay dial. This process must not occur until 210 ms after the system receives the connect signal.

To meet this requirement the DMS switch performs the following actions:

- a delay of the leading edge of wink and delay dial signals by 100 ms
- a minimum off-hook wink or delay dial signal of 140 ms

This time is the minimum that the DMS switch delays before the switch sends the leading edge of a wink or delay dial signal. For wink start trunks, the DMS switch does not start the delay timer until the switch is ready to receive digits. Additional delay can occur during setup for digit reception. The type of trunk and type of receiver used determine this additional delay.

Rules in provisioning

The recommended value to delay the leading edge of the signal for 100 ms is the default value 10.

To assign delay dial or wink to a trunk group, refer to Table TRKSGRP.

Range information

Minimum	Maximum	Default
		10 (100 ms)

Activation

When the peripheral module (PM) does not connect to a line trunk controller (LTC), you can change this parameter. Enter a busy (BSY) and return to service (RTS) command on the PM to change this parameter.

PRE_SND_WK_DD_TIME (end)

When the PM connects to an LTC, you can change this parameter. To change this parameter, perform one of the following to put the LTC through an RTS sequence:

- enter the BSY and RTS commands for both sides of the peripheral
- perform a double warm SWACT to update the active side and the side that is not active.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

RATE_PERIOD_SPECIFIC_BILLING

Parameter name

Rate Period Specific Billing

Functional description

A switching unit with the Hotel/Motel Register Pulsing Feature requires this parameter. This parameter determines the charge treatment to use to obtain billing data.

Rules in provisioning

When the value of this parameter is Y (yes), the current charge treatment obtains the billing data.

When the parameter value is N (no), the charge treatment in effect at the start of the call obtains the billing data.

Range information

Minimum	Maximum	Default
		N

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

RATE_PERIOD_SPECIFIC_BILLING (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

REC_MAX_DD_TIME

Parameter name

Recognize Maximum Delay Dial Time

Functional description

Parameter Recognize Maximum Delay Dial Time (REC_MAX_DD_TIME) specifies the maximum duration of time, in 160-ms intervals, that the system recognizes a signal as a delay dial signal. The system treats a delay dial signal greater than the value of this parameter as glare.

Note: The signaling test result is accurate to ± 20 msec. If an external device generates the far-end signal, add the accuracy of this external device to the tolerance stated above.

Rules in provisioning

The recommended value to satisfy Blue Book standards is the default value of 32.

Table OFCSTD enforces the following relationship for changes to this parameter:

$$(\text{REC_MAX_DD_TIME} - \text{REC_MIN_DD_TIME}/16) + (\text{WK_DD_PRE_DIAL_DELAY}/16 + 1) \leq 255$$

Range information

Minimum	Maximum	Default
		32 (5120 ms)

Activation

If the peripheral module (PM) is not connected to a line trunk controller (LTC), activate a change to this parameter. Busy (command BSY) and return to service (command RTS) the peripheral module at the PM level of a MAP terminal.

To activate a change to this parameter if the PM connects to an LTC, put the LTC through an RTS sequence. Busy and return to service the PM or perform a double warm SWACT to update the active and inactive sides.

REC_MAX_DD_TIME (end)

Dependencies

For assignment of delay dial to a trunk group, see table TRKSGRP.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

REC_MAX_WK_TIME

Parameter name

Recognize Maximum Wink Time

Functional description

This parameter specifies the maximum time, in 10-ms intervals, that a signal can be a wink start signal. The system recognizes a wink signal greater than the value of this parameter as glare.

Note: The signaling test result is accurate to ± 20 ms. If the far-end signal generates from an external device, add the accuracy of this external device to the tolerance stated above.

Rules in provisioning

The default value of 35 meets the Blue Book standards. Do not change the default value.

Table OFCSTD enforces the following relationship for any change to this parameter:

$$(\text{REC_MAX_WK_TIME} - \text{REC_MIN_WK_TIME}) + (\text{WK_DD_PRE_DIAL_DELAY} + 1) \leq 255$$

Range information

Minimum	Maximum	Default
		35 (350 ms)

Activation

To change this parameter when the peripheral module (PM) does not connect to a line trunk controller (LTC), busy (BSY) and return to service (RTS) the PM. Enter the PM level of a MAP terminal.

To change this parameter when the PM connects to an LTC, RTS the LTC. Busy and RTS both sides of the PM or perform a double warm SWACT to update the active and inactive sides.

Dependencies

To assign a wink to a trunk group, refer to table TRKSGRP.

REC_MAX_WK_TIME (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

REC_MIN_DD_TIME

Parameter name

Recognize Minimum Delay Dial Time

Functional description

This parameter specifies the minimum length, in 10-ms intervals, before the signal becomes a delay dial signal.

Note: The signaling test result is accurate to ± 20 ms. If the far-end signal generates from an external device, add the accuracy of this external device to the tolerance stated above.

Rules in provisioning

The default value of 10 meets the Blue Book standards. Do not change the default value.

Table OFCSTD enforces the following relationship for any change to this parameter:

$$\begin{aligned} &(\text{REC_MAX_DD_TIME} - \text{REC_MIN_DD_TIME}/16) + \\ &(\text{WK_DD_PRE_DIAL_DELAY}/16 + 1) \leq 255 \end{aligned}$$

Range information

Minimum	Maximum	Default
		10 (100 ms)

Activation

If the peripheral module (PM) does not connect to a line trunk controller (LTC), busy (BSY) and return to service (RTS) the PM. Enter the PM level of a MAP terminal.

To change to this parameter when the PM connects to an LTC, RTS the LTC. Busy and RTS both sides of the PM or perform a double warm SWACT to update the active and inactive sides.

Dependencies

To assign delay dial to a trunk group, refer to table TRKSGRP.

REC_MIN_DD_TIME (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

REC_MIN_WK_TIME

Parameter name

Recognize Minimum Wink Time

Functional description

This parameter specifies the minimum length, in 10-ms intervals, before the system recognizes the off-hook signal as a wink start signal.

Note: The signaling test result is accurate to ± 20 ms. If the far-end signal generates from an external device, add the accuracy of this external device to the tolerance stated above.

Rules in provisioning

The default value meets the Blue Book standards. Do not change the default value.

Table OFCSTD enforces the following relationship for any change to this parameter:

$$(REC_MAX_WK_TIME - REC_MIN_WK_TIME) + (WK_DD_PRE_DIAL_DELAY + 1) \leq 255$$

Range information

Minimum	Maximum	Default
		10 (100 ms)

Activation

Busy (BSY) and return to service (RTS) the LM switching units or reload the static data in the LTCs.

Dependencies

To assign a wink to a trunk group, refer to table TRKSGRP.

Consequences

Does not apply

REC_MIN_WK_TIME (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

REC_PRE_DD_TIME

Parameter name

Recognize Pre-delay Dial Time

Functional description

This parameter specifies the timeout period, in 160-ms intervals. This parameter specifies the timeout period for which the system receives the leading edge of a delay dial signal.

Rules in provisioning

Specify the timeout period, in 160 ms intervals, that the system receives the leading edge of a delay dial signal.

Range information

Minimum	Maximum	Default
2	32	3 (480 ms)

Activation

To change this parameter when the peripheral module (PM) does not connect to a line trunk controller (LTC), busy (BSY) and return to service (RTS) the PM. Enter the PM level of a MAP terminal.

To change this parameter when the PM connects to an LTC, RTS the LTC. Busy and RTS both sides of the PM or perform a double warm SWACT to update the active and inactive sides.

Dependencies

To assign a delay dial to a trunk group, refer to table TRKSGRP.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

REC_PRE_DD_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

REC_PRE_WK_TIME

Parameter name

Receive Pre-wink Time

Functional description

This parameter specifies the timeout period, in 160-ms intervals. This parameter specifies the timeout period for which the system receives the leading edge of a wink start signal.

Rules in provisioning

The default value of 35 meets the Blue Book standards. Do not change the default value.

Range information

Minimum	Maximum	Default
1	255	32 (5120 ms)

Activation

To change this parameter when the peripheral module does not connect to a line trunk controller (LTC), busy (BSY) and return to service (RTS) the PM. Enter the PM level of a MAP terminal.

To change this parameter when the PM connects to an LTC, RTS the LTC. Busy and RTS both sides of the PM or perform a double warm SWACT to update the active and inactive sides.

Dependencies

To assign a wink to a trunk group, refer to table TRKSGRP.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

REC_PRE_WK_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

RONIXFR

Parameter name

Remote Operator Number Identification Transfer

Functional description

This parameter is for dump and restore. This parameter only appears in switching units with the Remote Operator Number Identification (RONI) transfer feature.

This parameter indicates if the Centralized Automatic Message Accounting (CAMA) position calls direct to a local or remote position.

Use the CI command RONIXFR to change the status of the dump and restore. This command produces the correct log message.

Rules in provisioning

The value can be REMOTE or LOCAL to route CAMA calls to remote or local positions.

Range information

Minimum	Maximum	Default
		LOCAL

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

RP_INTER_SELECTION_TIMER

Parameter name

Revertive Pulsing Inter-selection Timer

Functional description

A switch with digital trunk groups of type TI or type TO with revertive pulsing, requires this parameter.

This parameter specifies the maximum time between two selections.

Rules in provisioning

Specify the maximum time between two selections, in 160-ms intervals.

Range information

Minimum	Maximum	Default
	255	50 (8 s)

Activation

To change this parameter when the peripheral module (PM) does not connect to a line trunk controller (LTC), busy (BSY) and return to service (RTS) the PM. Enter the PM level of a MAP terminal.

To change this parameter when the PM connects to an LTC, RTS the LTC. Busy and RTS both sides of the PM or perform a double warm SWACT to update the active and inactive sides.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

RP_INTER_SELECTION_TIMER (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS14

This parameter was introduced in BCS14.

RP_INTRA_SELECTION_TIMER

Parameter name

Revertive Pulsing Intra-selection Timer

Functional description

Switches with digital trunk groups of types TI or TO, with revertive pulsing, require this parameter.

This parameter specifies the maximum time setup to transmit a selection.

Rules in provisioning

Specify the maximum time setup to transmit a selection, in 10-ms intervals.

Range information

Minimum	Maximum	Default
0	255	10 (100 ms)

Activation

If the peripheral module (PM) does not connect to a line trunk controller (LTC), activate a change to this parameter with the following action. Busy (command BSY) and return to service (command RTS) the peripheral module at the PM level of a MAP terminal.

If the PM connects to an LTC, activate a change to this parameter with the following action. Put the LTC through an RTS sequence. Busy and return to service the PM (both sides) or perform a double warm SWACT. This action updates the active and inactive sides.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

RP_INTRA_SELECTION_TIMER (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

BCS14

This parameter was introduced in BCS14.

RP_OVERALL_TIMER

Parameter name

Revertive Pulsing Overall Timer

Functional description

Switches with digital trunk groups of types TI or TO, with revertive pulsing, require this parameter. This parameter specifies the maximum time setup for the revertive pulsing sequence to complete.

Rules in provisioning

Specify the maximum time setup, in 160-ms intervals, for the revertive pulsing sequence to complete.

Range information

Minimum	Maximum	Default
0	255	125 (20 s)

Activation

If the peripheral module (PM) does not connect to a line trunk controller (LTC), activate a change to this parameter with the following action. Busy (command BSY) and return to service (command RTS) the peripheral module at the PM level of a MAP terminal.

If the PM connects to an LTC, activate a change to this parameter with the following action. Put the LTC through an RTS sequence. Busy and return to service the PM (both sides) or perform a double warm SWACT. This action updates the active and inactive sides.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

RP_OVERALL_TIMER (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

BCS14

This parameter was introduced in BCS14.

SCP_DELAY

Parameter name

Service Control Point (SCP) Delay

Functional description

Operating company personnel use office parameter SCP_DELAY for testing purposes only.

Provisioning rules

Specify the delay value for the SCP response to a message. This parameter value represents the length of time the SCP takes to respond to a message. The value is expressed in 10-ms units.

Valid response times for a database message are between 0 and 3 s. A message timeout condition occurs after 3 s.

Range information

Minimum	Maximum	Default
0	32767	0

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter requires 1 word of data store.

Dump and restore rules

Does not apply

SCP_DELAY (end)

Parameter history

BCS20

Service Switching Point Hooks (BC1990) introduced this parameter in BCS20.

SHORT_TIMED_RELEASE_DISC_TIME

Parameter name

Short Timed Release Disconnect Time

Functional description

This parameter specifies the time for which the system times a called party on-hook. The parameter specifies the time before the called party on-hook releases the connection to the calling party. This parameter specifies time in 10-ms intervals.

Timed release disconnect (TRD) is a form of disconnect timing. The calling line disconnects after a specified time, if the calling line party fails to go on-hook when the called party goes on-hook. The system does not perform TRD timing on line-originated calls that terminate on residential (RES) lines. The system does not perform the above TRD timing when the system detects a terminating line disconnect signal. The system must detect a terminating line disconnect signal before an originating line disconnect signal. The system can detect an RES line disconnect signal before an originating line disconnect signal for a line-to-RES line call. When this action occurs, the system releases network connection between the two lines. The originating line goes in exit off-hook timing. The system can detect an RES line disconnect signal before a clear forward signal during a trunk-to-RES line call. When this action occurs, the system releases the network connection between the trunk and the line. The system places the originating trunk in guard timing. The system performs TRD on RES line-originated calls that terminate on other POTS lines. The system performs TRD on trunks that support TRD timing. The system performs TRD on these trunks when a terminating line or trunk disconnect signal occurs before an originating line disconnect signal.

This disconnect timing applies to the following types of calls with low setup costs or few resources. The user must deallocate these calls after use:

- line-to-line
- line-to-trunk (trunk group types PX, P2, and MDC)
- trunk- (trunk group types PX and P2) to-line
- trunk- (trunk group types PX and P2) to-trunk (trunk group types TO, TOPS, IT, OC, SC, A5, P2, PX, and MDC)

Rules in provisioning

The recommended value for this parameter is 208 (2.08 s). This value is short enough to free up resources after a disconnect of a local call. The value is long enough to ignore flashes. Older private branch exchanges (PBX) propagate into the network.

SHORT_TIMED_RELEASE_DISC_TIME (continued)

For calls that involve PCM30 line drawer (PLD) and the United Kingdom type of national user part (BTUP), the value of this parameter has specifications. The value of the parameter must equal the value field BTUPT1 in table C7UPTMR defines. This value guarantees the system performs correct re-answer timing for PLD and BTUP calls.

If the value of this parameter changes, central control (CC) uses the new value immediately in the billing adjustment procedures. The peripheral module (PM) uses old values to calculate call duration times until the user reloads the static data.

Reload the PMs immediately or billing discrepancies can occur. The values for this parameter are different in the CC and PM.

The following message displays when you make a change to this parameter:

```
WARNING: A RELOAD OF THE LM/LTC STATIC DATA MUST BE
PERFORMED TO ACTIVATE CHANGES TO THE VALUE OF THIS PARAMETER
```

Range information

Minimum	Maximum	Default
16	4080	208 (2.08 s)
	32767 (with Meridian OffNet Access)	16 (UK operating company type trunks)

Activation

To activate a change to this parameter, resend all line peripherals EXECS. For line modules (LM) and remote line modules (RLM), busy (BSY), load (LOADPM) and return to service (RTS) the peripheral. For XPM-based peripherals (LTC and LGC), busy the inactive unit (BSY INACTIVE). Reload static data to the inactive unit (LOADPM INACTIVE CC DATA) and return to service the inactive unit (RTS INACTIVE). Perform a warm swact (SWACT). BSY/RTS each unit of each LCM.

Dependencies

Does not apply

SHORT_TIMED_RELEASE_DISC_TIME (end)

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

CSP04

Activation information is updated in CSP04.

CSP02

The TRD limits for RES lines are added in the functional description.

BCS36

Activation information is corrected in BCS36.

BCS15

This parameter was introduced in BCS15.

SND_DD_TIME

Parameter name

Send Delay Dial Time

Functional description

This parameter specifies the duration, in 10-ms intervals, of the transmitted delay dial for DP trunks.

The value for multifrequency (MF) trunks is fixed.

Rules in provisioning

For assignment of delay dial to a trunk group, see table TRKSGRP.

Range information

Minimum	Maximum	Default
		15 (150 ms)

Activation

If the peripheral module (PM) does not connect to a line trunk controller (LTC), activate a change to this parameter with the following action. Busy (command BSY) and return to service (command RTS) the peripheral module at the PM level of an AP terminal.

If the PM connects to an LTC, activate a change to this parameter with the following action. Put the LTC through an RTS sequence. Busy and return to service the PM (both sides) or perform a double warm SWACT to update the active and inactive sides.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

SND_DD_TIME (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

SND_DP_WK_TIME

Parameter name

Send Dial Pulse Wink Time

Functional description

This parameter specifies the duration, in 10-ms intervals, for the transmitted wink for DP trunks.

Rules in provisioning

The default value of 15 satisfies Blue Book specifications. Do not change this value.

Range information

Minimum	Maximum	Default
1	255	15 (150 ms)

Activation

If the peripheral module (PM) does not connect to a line trunk controller (LTC), activate a change to this parameter with the following action. Busy (command BSY) and return to service (command RTS) the peripheral module at the PM level of a MAP terminal.

If the PM connects to an LTC, activate a change to this parameter with the following action. Put the LTC through an RTS sequence. Busy and return to service the PM (both sides) or perform a double warm SWACT to update the active and inactive sides.

Dependencies

For assignment of wink to DP trunks, see table TRKSGRP.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

SND_DP_WK_TIME (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

SND_MF_WK_TIME

Parameter name

Send Multifrequency Wink Time

Functional description

This parameter specifies the duration, in 10-ms intervals, for the wink the system transmits for multifrequency (MF) trunks.

Rules in provisioning

Specify the duration, in 10-ms intervals, for the transmitted wink for MF trunks.

Range information

Minimum	Maximum	Default
1	255	15 (150 ms)

Activation

If the peripheral module (PM) does not connect to a line trunk controller (LTC), activate a change to this parameter with the following action. Busy (command BSY) and return to service (command RTS) the peripheral module at the PM level of a MAP terminal.

If the PM connects to an LTC, activate a change to this parameter with the following action. Put the LTC through an RTS sequence. Busy and return to service the PM (both sides) or perform a double warm SWACT to update the active and inactive sides.

Dependencies

For assignment of wink on MF trunks, see table TRKSGRP.

Consequences

If the value of this parameter is set too high in a toll switch, signaling problems with some types of carriers can occur.

You can change the value of this parameter to accommodate some types of carriers.

SND_MF_WK_TIME (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

SWHK_FLTR_TIME_400MS_ENABLED

Parameter name

Switch Hook Filter Time 400 ms Enabled

Functional description

This parameter sets the switch hook filter time on Meridian Digital Centrex (MDC) or private branch exchange (PBX) trunks to a value of 50 or 400 ms.

The switch hook filter time is the time that an off-hook state or an on-hook state must remain constant to be valid. On some outgoing trunks, the system translates transient off-hook or on-hook changes as answer followed by disconnect. An answer followed by disconnect cuts off calls when the switch hook filter time is 50 ms.

Rules in provisioning

The default value of N (no) provides a switch filter time of 50 ms for MDC and PBX trunks.

If the value of this parameter is set to Y (yes), the switch filter time on MDC and PBX trunks increases to 400 ms.

When this parameter has a value of Y (yes), use non-standard filter timing. The AMA timing can vary by the amount specified.

An error message displays if the user specifies a wrong value for this parameter. A warning message displays when you change the value of this parameter. This message reminds Northern Telecom personnel to resend EXECS on the affected peripheral modules.

To make a change to this parameter, load a module from an NT technical assistance service (TAS) non-resident tape. A read/write password protects this tape.

Range information

Minimum	Maximum	Default
		N

SWHK_FLTR_TIME_400MS_ENABLED (continued)

Activation

To activate a change to this parameter, resend the EXECS of a peripheral module that contains one of the following EXEC groups:

- TM8EX
- TM4EX
- FXODCM
- DCMEX
- DTCEX
- FXODTC
- DTCFX
- ADCMEX

Resend EXECS of old peripheral modules with these EXEC groups. Perform this action with the LOADPM command at the PM level of a MAP terminal.

On new peripheral modules, perform these steps at the PM level of a MAP terminal.

1. Busy (BSY) and return to service (RTS) the inactive unit.
2. Perform a warm SWACT.
3. If TRK121 log reports do not have start dial conditions, perform a cold SWACT.

If you change the parameter for a software load that follows (BCS or PCL), perform a dump and restore.

Dependencies

See office parameter SWHK_FLTR_TIME_640MS_ENABLED in table OFCSTD to set the switch hook filter time on trunks other than MDC or PBX.

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

SWHK_FLTR_TIME_400MS_ENABLED (end)

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

Software release BC21 relocates this parameter from table OFCOPT to table OFCSTD.

SWHK_FLTR_TIME_640MS_ENABLED

Parameter name

Switch Hook Filter Time 640 ms Enabled

Functional description

This parameter sets the switch hook filter time for trunks other than Meridian Digital Centrex (MDC) or private branch exchange (PBX) trunks. The parameter sets the time to a value of 50 or 640 ms.

The switch hook filter time is the time an off-hook state or on-hook state must remain constant to be a valid state. On some outgoing trunks, the system translates transient off-hook or on-hook changes as answer followed by disconnect. This condition cuts off calls when the switch hook filter time is 50 ms.

Rules in provisioning

The default value of N (no) provides a switch filter time of 50 ms for trunks other than MDC or PBX.

If the value of this parameter is set to Y (yes), the switch filter time on MDC or PBX trunks is increased to 640 ms.

When this parameter has a value of Y, use non-standard filter timing. The AMA timing can vary by the amount specified.

An error message appears if the user specifies a wrong value for this parameter. A warning message appears when the value of this parameter changes. This message reminds Northern Telecom personnel to send EXECS again to the affected peripheral modules.

To make a change to this parameter, load a module from an NT technical assistance service (TAS) non-resident tape. A read/write password protects this tape.

Range information

Minimum	Maximum	Default
		N

SWHK_FLTR_TIME_640MS_ENABLED (continued)

Activation

To activate a change to this parameter, resend EXECS to a peripheral module that contains one of the following EXEC groups:

- TM8EX
- TM4EX
- TM2EX
- FXODCM
- DCMEX
- DTCEX
- ADCMEX
- ATMEX
- FXODTC
- DTCFX
- ADCMIX

Resend EXECS to old peripheral modules that contain these EXEC groups. Use the LOADPM command at the PM level of a MAP terminal.

On new peripheral modules, perform these steps at the PM level of a MAP terminal.

1. Busy (BSY) and return to service (RTS) the inactive unit.
2. Perform a warm SWACT.
3. If TRK121 logs reports appear that do not have start dial conditions, perform a cold SWACT.

If you change the parameter for a software load that follows (BCS or PCL), perform a dump and restore.

Dependencies

See parameter SWHK_FLTR_TIME_400MS_ENABLED in table OFCSTD to set the switch hook filter time on MDC or PBX trunks.

Consequences

Does not apply

Verification

Does not apply

SWHK_FLTR_TIME_640MS_ENABLED (end)

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history

This parameter was relocated from table OFCOPT to table OFCSTD in BCS21.

TERM_REV_FREQ_ANN_TIME

Parameter name

Terminating Revertive Treatment Announcement Time

Functional description

Switching units with frequency ringing and the terminating revertive treatment announcement (TRRF) that routes over an automatic intercept system (AIS) trunk require this parameter.

This parameter specifies the length of the announcement the terminating party hears when the terminating party receives a revertive call. The parameter specifies the length in 1-s intervals.

Rules in provisioning

If other than 15 s, enter the length of the TRRF in 1-s intervals.

If not required, leave the value of this parameter at the default of 15.

Range information

Minimum	Maximum	Default
0	60	15

Activation

Immediate

Dependencies

Does not apply

Consequences

Does not apply

Verification

To verify that the correct value is entered, see table OFCSTD at the MAP and position on parameter TERM_REV_FREQ_ANN_TIME.

Memory requirements

This parameter does not impact memory.

TERM_REV_FREQ_ANN_TIME (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS26

This parameter was introduced in BCS26.

TRAP_THRESHOLD

Parameter name

Trap Threshold

Functional description

This parameter determines the number of traps that occur within 1 min before the user takes action.

If the number of traps that occur in 1 min reaches the value of this parameter, the system drops synchronization. The mate processor goes through a cold restart and activity switches to the mate processor.

Rules in provisioning

Expect some traps to occur normally. Do not set the value of this parameter to a value that is too low.

If the parameter is set too high, degradation can occur because recovery did not automatically occur. If the parameter is set too low, degradation can occur because of not warranted recovery attempts through a cold restart. The value for this parameter must be determined on the basis of these two conditions.

Software errors cause traps. Maximize the value of the parameter because the attempted recovery cannot always correct the trap. A limited amount of time is required to process a trap. A limit is present on the number of traps that can occur in 1 min.

The range of values for this parameter for each processor follows:

- NT40: 100 to 4620
- SuperNode: 100 to 5460

Set the parameter to the default value. Do not lower the parameter value unless NT Field Service Engineering (FSE) directs you to perform this action. The NT FSE determines if an attempt at automatic recovery in place of a sustained degradation is necessary.

Range information

Minimum	Maximum	Default
100	32767	1000

TRAP_THRESHOLD (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

If the value of this parameter is set too high and traps occur, office degradation can result without an automatic recovery attempt.

If the value of this parameter is set too low and traps occur, automatically attempted recovery can cause office degradation. Automatically attempted recovery is through a cold restart.

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS29

This parameter was introduced in BCS29.

UCD_QSL_AUDIT_INTERVAL

Parameter name

Uniform Call Distribution Queue Status Lamp Audit Interval

Functional description

DMS-100 or SL-100 switching units with customer groups with the Uniform Call Distribution (UCD) Queue Status Lamp (QSL) feature, require this parameter. This parameter specifies the time interval between executions of the UCD QSL audit. The UCDQSL inspects the UCD groups with the QSL option. The audit inspects these groups to determine and display indications of wait times for calls at the head of incoming call queues.

Rules in provisioning

Specify the time interval, in seconds, between executions of the UCD QSL audit.

Range information

Minimum	Maximum	Default
20	120	30

Activation

A change in value activates when the UCD QSL process takes the next pass. For example, a change that increases the parameter from 20 s to 50 s activates in the next 20 s. After the audit activates from the previous delay cycle (20 s), the audit uses the new value of the parameter.

Dependencies

Does not apply

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

UCD_QSL_AUDIT_INTERVAL (end)

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

BCS22

This parameter was introduced in BCS22.

WK_DD_PRE_DIAL_DELAY

Parameter name

Wink Delay Dial Pre-dial Delay

Functional description

This parameter applies to outgoing, two-way delay dial and wink start trunks. This parameter specifies the delay between the trailing edge of the start signal and the outpulsing of digits.

In an equal access (EA) environment, this parameter affects the time between the first wink and digits that outpulse. This parameter affects the time between the next winks, when outpulsing follows.

Rules in provisioning

The recommended value is 8 (70 to 80 ms).

For information on assignment of delay dial and wink to trunk groups, see table TRKSGRP.

Range information

Minimum	Maximum	Default
8	100	8 (80 ms)

Activation



DANGER

Possible multifrequency trunk service degradation

A change to this parameter can take effect immediately and cause degradation of service for multifrequency (MF) trunks.

BUSY (BSY) and RETURN TO SERVICE (RTS) the LMs of the switching unit or reload the static data in the LTCs.

Dependencies

Table OFCSTD enforces the following relationships if the user makes any change to this parameter:

WK_DD_PRE_DIAL_DELAY (end)

$$\text{REC_MAX_WK_TIME} \pm \text{REC_MIN_WK_TIME}/16 \\ + \text{WK_DD_PRE_DIAL_DELAY} + 1 \quad 255$$

$$\text{REC_MAX_DD_TIME} \pm \text{REC_MIN_DD_TIME}/16 \\ + \text{WK_DD_PRE_DIAL_DELAY}/16 + 1 \quad 255$$

Consequences

Does not apply

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

XPM_PARITY_THRESHOLD

Parameter name

XMS-based Peripheral Module Parity Threshold

Functional description

Use this parameter to set the default parity threshold for XMS-based peripheral modules (XPM) after reload and cold restarts.

Each XPM stores a parity threshold value in the central control (CC). The system downloads the parity threshold to an XPM on a return to service (RTS). On cold or reload restarts, the system updates the CC RTS values with the value of this parameter.

In addition, on reload restarts, the system performs an RTS on all XPM units. The system downloads the value of this parameter to all XPM units.

You can update the parity threshold for an XPM between restarts with the FILTER command. The FILTER command is in the NET:INTEG MAP level or the ENET:ENINTEG MAP level. You can use the FILTER command to query the current parity threshold for an XPM. The FILTER command displays the CC RTS value and the downloaded values for each unit.

Rules in provisioning

Only Northern Telecom personnel can change this parameter.

Activation

Immediate

When an in-service office requires a change to this parameter, use the FILTER command to change the parity threshold for each XPM. Change the parity threshold for each XPM to the new value before you change this parameter. When the user reduces the value, excess parity failures must be resolved before the user changes this parameter.

Dependencies

Does not apply

Consequences

During an XPM WarmSwact, NET102 (JNET) or ENCP100 (ENET) LOGUTIL reports can report network parity errors that are not correct. Ignore these WarmSwact related errors. An increase in the value of XPM_PARITY_THRESHOLD reduces reports of network errors WarmSwact causes.

XPM_PARITY_THRESHOLD (end)

Verification

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Copy the current value of this parameter when you perform a dump and restore.

Parameter history

XPM03B

Added statement of results about network parity errors during a WarmSwact.

BCS19

This parameter was introduced in BCS19.

4 ISDNVAR parameters

This chapter contains the descriptions for the Integrated Services Digital Network variable (ISDNVAR) table office parameter.

AUTOSPID

Parameter name

Automated SPID

Functional description

Office parameter AUTOSPID controls the office-wide use of the Automated SPID feature. Initializing BRIFS terminals send a Universal SPID to the extended peripheral module (XPM). When AUTOSPID is ON, BRIFS terminals receive a SPID value back from the XPM to use for Layer 3 initialization. When AUTOSPID is OFF, the XPM does not send a SPID to the terminal upon receipt of the Universal SPID. The default value is OFF.

Provisioning rules

You can provision Automated SPID office wide. Automated SPID affects NI-1, 2B and NI-2 initializing BRAFS LTIDs.

Range information

Minimum	Maximum	Default
OFF	ON	OFF

Activation

Immediate. When the parameter changes, the system downloads the indication of the use of Automated SPID to each ISDN XPM.

Dependencies

None

Consequences

This parameter controls the office-wide use of Automated SPID. When AUTOSPID is ON, the XPM responds to initialization requests using the Universal SPID. The SPM sends one or more correct SPIDs to the terminal. When AUTOSPID is OFF, the XPM does not send SPIDs to the terminal.

Verification

None

Memory requirements

minimum

Dump and restore rules

None

Parameter history

NA009

Introduced this office parameter in NA009.

CND_BRI_OFFICE

Parameter name

Calling Number Delivery (CND) Basic Rate Interface (BRI) Office

Functional description

This parameter provides delivery of CND to an office. If set to ON, CND is available for all BRI terminals in that office.

Provisioning rules

Use the CHA (change) command to update this parameter.

Range information

Minimum	Maximum	Default
OFF	ON	OFF

Activation

This parameter is available in NA012 and up software.

Requirements

does not apply

Results

does not apply

Testing

Set this parameter to ON to check. Set other delivery mechanisms, such as the CND line option or the Basic Business Group CNDBRI option, to NO. Also make sure that an availability mechanism is present. Call the target subscriber to make sure that the number delivers.

Memory requirements

no effect

Dump and restore rules

does not apply

CND_BRI_OFFICE (end)

Parameter history

NA012

This parameter is new.

DEFOML

Parameter name

Default Overload Messaging Limit (DEFOML)

Functional description

The DEFOML parameter dictates how many messages per minute are required to consider a terminal in a rapid messaging (RM) state. The DEFOML parameter value is an office-wide default and can be overridden by the LTID option OML.

Provisioning rules

The table control CHA command is the only valid command for this tuple.

Range information

Increase or decrease the DEFOML parameter value in increments of 15. A value of zero deactivates the DEFOML parameter.

Minimum	Maximum	Default
0	150	0

When operating company personnel activate RM, Nortel recommends operating company personnel set the DEFOML office parameter in table ISDNVAR to 120.

The operating company can adjust the value for office parameter DEFOML based on the traffic profile of the particular office. Nortel recommends you set the value to allow the vast majority of ISDN BRI terminals to proceed with their normal level of messaging. Simultaneously, this value allows the DMS-100 switch to flag those terminals with an excessive amount of messaging into the DMS-100 switch.

Based on the results of the DEFOML setting, the operating company can use the OML option on an individual LTID basis to regulate those terminals that exceed the DEFOML thresholds.

Activation

Immediate

DEFOML (end)

Dependencies

The DEFOML parameter depends on the office-wide parameter TMEAS. If the TMEAS parameter is deactivated (set to zero), then the DMS-100 switch deactivates RM checking, which then ignores the DEFOML parameter.

Consequences

If the DEFOML parameter is set too low, serious consequences can occur. The RM activity is designed to take terminals out-of-service and generate log reports. Because DEFOML is the default parameter, a setting that is too low can flood logs and can affect many subscribers by taking numerous terminals out of service. If the value is set too high, RM controls are not applied, which defeats the purpose of the RM activity.

Verification

Use the POS command on the TMEAS tuple to verify the parameter is set to non-zero. To activate the Default Overload Message Limit value, assign a value other than zero. The subscriber can verify this parameter is working only if a terminal that is not assigned option OML goes into a rapid messaging state.

Memory requirements

DEFOML has minimal impact on memory.

Dump and restore rules

A reformat procedure is not necessary.

Parameter history**NA010**

The DEFOML parameter was introduced in NA010.

ECHO_STAT_BILL_PARM

Parameter name

Echo Station Billing Parameter

Functional description

This parameter allows the user to establish the billing status for an echo station directory number (DN). The echo station DN allows the user to check network connections for X.25 packet calls as described in Telcordia Technologies general requirement, GR2839. This parameter determines if the DMS switch bills all calls to echo station DNs present on an office.

Provisioning rules

Use table control to set the value of this parameter to ON. This value causes generation of the automatic message accounting buffer (AMAB) 120 record for calls to all echo station DNs on the DMS switch.

Use table control to set the value of this parameter to OFF. The default value of OFF prevents generation of the AMAB 120 record for calls to all echo station DNs on the DMS switch.

Range information

Minimum	Maximum	Default
OFF	ON	OFF

Activation

Immediate

Requirements

None

Results

When this parameter has a value of ON, the system generates AMAB120 billing records for calls to all echo station DNs. When this parameter has a value of OFF, the system prevents generation of any AMAB120 billing records for echo station DNs on the DMS switch.

ECHO_STAT_BILL_PARM (end)

Testing

Set the value for this parameter to ON, and check that AMAB120 billing records generate against the charged DNs for all calls to all echo station DNs for the office.

Set the value for this parameter to OFF, and check that AMAB120 billing records do not generate for any calls to echo station DNs for the office.

Memory requirements

4 bytes

Dump and restore rules

Copy the current value of the parameter when you perform a dump and restore.

Parameter history**NA012**

This parameter was introduced in NA012.

L2_DM_FRAME_RCVD

Parameter name

Layer 2 Disconnected Mode Frame Received

Functional description

This parameter allows or disables the generation of logs for ISDN304 Layer 2 Protocol Abnormality. These display logs Disconnect Mode frame Rcvd displayed in the Abnormality field. This parameter allows or disables these log reports for the entire office.

The system generates ISDN304 log reports when the system detects a Layer 2 Protocol Abnormality specified in technical requirement TR821. The D-channel (DCH) or enhanced D-channel (EDCH) handler detects a Layer 2 Protocol Abnormality.

To allow the generation of ISDN304 Layer 2 Protocol Abnormality logs for the complete office, set this parameter to ON. These logs display Disconnect Mode frame Rcvd in the Abnormality field.

To disable the generation of ISDN304 Layer 2 Protocol Problem logs for the complete office, set this parameter to OFF. These logs display Disconnect Mode frame Rcvd in the Abnormality field on an office-wide basis.

Note: You can override instructions that this parameter set for log generation for the complete office. Use the L2LOGCTL command or table control to make entries in table L2ABNLOG.

Rules in provisioning

Use table control to set the value of this parameter to ON if you want the system to generate ISDN304 Layer 2 Protocol Abnormality logs. These logs display Disconnect Mode frame Rcvd in the Abnormality field. The system generates these logs for the entire office.

Leave this parameter set to OFF if you want the system to generate ISDN304 Layer 2 Protocol Abnormality logs. These logs display Disconnect Mode frame Rcvd in the Abnormality field. The system does not generate these logs for the office.

L2_DM_FRAME_RCVD (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

You can set this parameter to OFF, but the system does not generate log reports for ISDN304 Layer 2 Protocol Abnormality. These log reports display "Disconnect Mode frame Rcvd" in the Abnormality field. The system does not generate the report for the office. The system will generate these log reports if you use the L2LOGCTRL command or data entry in tables L2ABNLOG to activate the reports.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate ISDN304 Layer 2 Protocol Abnormality logs. These logs display Disconnect Mode frame Rcvd in the Abnormality field.

Verify that log reports ISDN304 Layer 2 Protocol Abnormality are not active. These reports display Disconnect Mode frame Rcvd in the Abnormality field. Use of the L2LOGCTL command or by a manual entry in table L2ABNLOG can cause the activation of log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L2_DM_FRAME_SENT

Parameter name

Layer 2 Disconnected Mode Frame Sent

Functional description

This parameter allows or disables the generation of log reports for ISDN304 Layer 2 Protocol Abnormality. These log reports display Disconnect Mode frame sent in the Abnormality field. This parameter allows or disables these log reports for the complete office.

The D-channel (DCH) or enhanced D-channel (EDCH) handler detects a Layer 2 Protocol Abnormality specified in technical requirement TR821. The system generates ISDN304 log reports.

Set this parameter to ON to enable the generation of log reports for ISDN304 Layer 2 Protocol Abnormality. These log reports display Disconnect Mode frame sent in the Abnormality field.

Set this parameter to OFF to disable the generation log reports for of ISDN304 Layer 2 Protocol Abnormality. These log reports display Disconnect Mode frame sent in the Abnormality field. The system does not generate these log reports for the office.

Note: You can override instructions that this parameter set for log generation for the complete office. Use the L2LOGCTL command or table controls to make entries in table L2ABNLOG.

Rules in provisioning

Use table control to set the value of this parameter to ON if you want the system to generate log reports for ISDN304 Layer 2 Protocol Abnormality. These log reports display Disconnect Mode frame sent in the Abnormality field. The system generates these log reports for the entire office.

Leave this parameter set to OFF if you do not want the system to generate log reports for ISDN304 Layer 2 Protocol Abnormality. These log reports display with Disconnect Mode frame sent in the Abnormality field. The system does not generate these log reports for the office.

L2_DM_FRAME_SENT (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

There are no dependencies.

Consequences

If this parameter is set to OFF, the system does not generate log reports for ISDN304 Layer 2 Protocol Abnormality. These log reports display "Disconnect Mode frame sent" in the Abnormality field. The system generates the reports for an office if the L2LOGCTRL command or data entry in tables L2ABNLOG activated the logs.

Verification

Set this parameter to OFF. Verify that that system did not generate log reports for ISDN304 Layer 2 Protocol Abnormality. These log reports display Disconnect Mode frame sent displayed in the Abnormality field.

Verify that the log reports for ISDN304 Layer 2 protocol Abnormality are not active. These log reports display Disconnected Mode frame sent in the Abnormality field. Use of the L2LOGCTL command or a manual entry in table L2ABNLOG can cause activation of log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L2_FRAME_RCVD_CNTRL_UNDEF

Parameter name

Layer 2 Frame Received Control Undefined

Functional description

This parameter enables or disables the generation of ISDN304 Layer 2 Protocol Abnormality log reports that display the following in the Abnormality field:

Frames Rcvd with cntrl field not defined

This parameter enables or disables these log reports on an office-wide base.

Technical requirement TR821 specifies a Layer 2 Protocol Abnormality. The D-channel (DCH) or enhanced D-channel (EDCH) handler detect the Layer 2 Protocol Abnormality. This occurrence generates ISDN304 log reports.

Setting this parameter to ON allows the office-wide generation of the ISDN304 Layer 2 Protocol Abnormality log reports described above.

Setting this parameter to OFF disables the office-wide generation of the ISDN304 Layer 2 Protocol Abnormality log reports described above.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG. These entries override the parameter instructions for office-wide generation of log reports.

Rules in provisioning

Use table control to set the value of this parameter to ON to generate ISDN304 Layer 2 Protocol Abnormality log reports office-wide.

Leave this parameter set to the default value of OFF and ISDN Layer 2 Protocol Abnormality reports will not generate office-wide.

The ISDN Layer 2 Protocol Abnormality log reports display the following in the Abnormality field:

Frames Rcvd with cntrl field not defined.

L2_FRAME_RCVD_CNTRL_UNDEF (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is set to OFF, the ISDN304 Layer 2 Protocol Abnormality log reports described above do not generate on an office-wide base. Use of L2LOGCTRL command or data entry in tables L2ABNLOG can activate log reports when the parameter is set to OFF.

Verification

Set the value of this parameter to OFF and verify that the ISDN304 Layer 2 Protocol Abnormality log reports described above did not generate.

Memory requirements

This parameter does impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L2_FRAME_RCVD_EXCD_INFO

Parameter name

Layer 2 Frame Received Exceeded Information

Functional description

This parameter enables or disables the generation of ISDN304 log reports that display the following Abnormality field:

Frames Rcvd with info field exceeding max established length

This parameter enables or disables these log reports on an office-wide base.

Technical requirement TR821 specifies a Layer 2 Protocol Abnormality. The D-channel (DCH) or enhanced D-channel (EDCH) handler detects a Layer 2 Protocol Abnormality. This abnormality generates ISDN304 log reports.

Setting this parameter to ON allows the office-wide generation of the ISDN304 Layer 2 Abnormality log reports described above.

Setting this parameter to OFF disables office-wide basis the generation of the ISDN304 Layer 2 Protocol Abnormality log reports described above.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG to override parameter instructions for office-wide log generation.

Rules in provisioning

Use table control to set the value of this parameter to ON to generate ISDN304 Layer 2 Abnormality log office-wide.

Leave this parameter set to the default value of OFF and ISDN_304 Layer 2 Abnormality log reports will not generate office-wide.

These ISDN_304 Layer 2 Abnormality log reports display the following in the Abnormality field:

Frames Rcvd with information exceeding max established length.

L2_FRAME_RCVD_EXCD_INFO (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is set to OFF, the ISDN304 Layer 2 Abnormality log reports described above will not generate office-wide. The L2LOGCTRL command or data entry in tables L2ABNLOG can activate these log reports when the parameter is set to OFF.

Verification

Set the value of this parameter to OFF and verify that the ISDN304 Layer 2 Abnormality log reports described above did not generate.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L2_FRAME_RCVD_INVALID_SEQ_NUM

Parameter name

Layer 2 Frame Received Invalid Sequence Number

Functional description

This parameter enables or disables the generation of ISDN304 Layer 2 Protocol Abnormality log reports that display the following:

Frames Rcvd with invalid seq num

This parameter enables or disables these log reports office-wide.

Technical requirement TR821 specifies a Layer 2 Protocol Abnormality. The D-channel (DCH) or enhanced D-channel (EDCH) handler detect a Layer 2 Protocol Abnormality. This abnormality generates ISDN304 log reports.

Set this parameter to ON to generate the ISDN304 Layer 2 Protocol Abnormality log reports.

Set this parameter to OFF to disable the office-wide generation of ISDN304 Layer 2 Protocol Abnormality log reports.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG to override parameter instructions for office-wide log generation.

Rules in provisioning

To generate the ISDN304 Layer 2 Protocol Abnormality log reports office-wide, use table control to set the value of this parameter to ON.

Leave this parameter set to the default value of OFF and ISDN304 Lay2 Protocol Abnormality log reports do not generate office-wide. These Layer 2 Protocol Abnormality log reports display the following in the Abnormality field:

Frames Rcvd with invalid seq num

L2_FRAME_RCVD_INVALID_SEQ_NUM (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is set to OFF, the ISDN304 Layer 2 Protocol Abnormality logs, that section Functional description in this module describes, does not generate office-wide. The L2LOGCTRL command or data entry in tables L2ABNLOG can activate the log reports when the parameter is set to OFF.

Verification

Set this parameter to OFF and verify that the ISDN304 Layer 2 Protocol Abnormality log reports that section Functional description in this module describes, did not generate.

Make sure to verify that ISDN304 Layer 2 Protocol Abnormality log reports with Frames Rcvd Frames Rcvd with invalid seq num displayed in the Abnormality field have not been activated through use of the L2LOGCTL command or by a manual entry in table L2ABNLOG.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L2_FRAME_RCVD_INVALID_INFO

Parameter name

Layer 2 Frame Received Invalid Information

Functional description

This parameter is used to enable or disable the generation of ISDN304 Layer 2 Abnormality log reports with “Frames Rcvd with invalid info field” displayed in the Layer 2 Abnormality field. This parameter enables or disables these log reports on an office-wide basis.

ISDN304 log reports are generated when a Layer 2 Protocol Abnormality specified in technical requirement TR821 is detected by the D-channel (DCH) or enhanced D-channel (EDCH) handler.

Setting this parameter to ON enables the generation of ISDN304 Layer 2 Protocol Abnormality log reports with “Frames Rcvd with invalid info field” displayed in the Abnormality field on an office-wide basis.

Setting this parameter to OFF disables the generation of ISDN304 Layer 2 Abnormality log reports with “Frames Rcvd with invalid info field” displayed in the Abnormality field on an office-wide basis.

Provisioning rules

If the generation of ISDN304 Layer 2 Abnormality log reports with “Frames Rcvd with invalid info field” displayed in the Abnormality field on an office-wide basis is desired, use table control to set the value of this parameter to ON.

If the generation of ISDN304 Layer 2 Abnormality log reports with “Frames Rcvd with invalid info field” displayed in the Abnormality field on an office-wide basis is not desired, leave this parameter set to the default value of OFF.

Note: The L2LOGCTL command or table control can be used to make entries in table L2ABNLOG that override this parameter's instructions for log generation on an office-wide basis.

L2_FRAME_RCVD_INVALID_INFO (end)

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

None

Consequences

If this parameter is set to OFF, ISDN304 Layer 2 Abnormality log reports with "Frames Rcvd with invalid info field" displayed in the Abnormality field will not be generated on an office-wide basis unless they have been activated through use of the L2LOGCTRL command or data entry in tables L2ABNLOG.

Verification

Set this parameter to OFF and verify that no ISDN304 Layer 2 Abnormality log reports with "Frames Rcvd with invalid info field" displayed in the Abnormality field are generated.

Be sure to verify that ISDN304 Layer 2 Abnormality log reports with "Frames Rcvd with invalid info field" displayed in the Abnormality field have not been activated through use of the L2LOGCTL command or by a manual entry in table L2ABNLOG.

Memory requirements

This parameter has no memory impact.

Dump and restore rules

Not applicable

Parameter history**NA008**

This parameter was introduced.

L2_FRAME_RCVD_UNEXPECTED

Parameter name

Layer 2 Frame Received Unexpected

Functional description

This parameter enables or disables the generation of ISDN304 Layer 2 Protocol Abnormality log reports. The Unexpected frames received message appears in the Abnormality field of these reports. This parameter enables or disables these log reports office-wide.

The technical requirement TR821 specifies a Layer 2 Protocol Abnormality. The system generates ISDN304 log reports when the following handlers detect a Layer 2 Protocol Abnormality:

- D-channel (DCH) handler
- enhanced D-channel (EDCH) handler

When you set this parameter to ON, the system can generate ISDN304 Layer 2 Protocol Abnormality log reports. These log reports contain the Unexpected frames received message in the Abnormality field and appear office-wide.

When you set this parameter to OFF, the system cannot generate ISDN304 Layer 2 Protocol Abnormality log reports. These log reports contain the Unexpected frames received message in the Abnormality field and appear office-wide.

Rules in provisioning

You can use table control to set the value of this parameter to ON. This condition allows the system to generate ISDN304 Layer 2 Protocol Abnormality log reports. The Unexpected frames message appears in the Abnormality field. These logs occur office-wide.

Leave this parameter at the default value of OFF if the system must not generate ISDN304 Layer 2 Protocol Abnormality logs. These reports contain the Unexpected frames received message in the Abnormality field and appear office-wide.

Note: The user can override the instructions that this parameter specifies for office-wide log generation. Use the L2LOGCTL command or table control to enter data in table L2ABNLOG. These entries override parameter instructions.

L2_FRAME_RCVD_UNEXPECTED (end)

Range information

The choices of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

If you set this parameter to OFF, the system does not generate ISDN304 Layer 2 Protocol Abnormality log reports. These logs contain the Unexpected frames received message in the Abnormality field and appear office-wide. The system generates the logs if the L2LOGCTRL command or data entry in tables L2ABNLOG activates the logs.

Verification

Set the value of this parameter to OFF. Make sure the system does not generate ISDN304 Layer 2 Protocol Abnormality logs with Unexpected frames received in the Abnormality field.

Verify that the following do not activate ISDN304 Layer 2 Protocol Abnormality logs with Unexpected frames received in the Abnormality field:

- an L2LOGCTL command
- a manual entry in table L2ABNLOG

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L2_FRMR_FRAME_RCVD

Parameter name

Layer 2 FRMR Frame Received

Functional description

This parameter enables or disables the generation of ISDN304 Layer 2 Protocol Abnormality log reports. The parameter enables or disables log reports that contain the FRMR frame Rcvd message in the Abnormality field. This parameter enables or disables these log reports office-wide.

The technical requirement TR821 specifies a Layer 2 Protocol Abnormality. The D-channel (DCH) or enhanced D-channel (EDCH) handler detects a Layer 2 Protocol Abnormality. When the DCH or EDCH detect a Layer 2 Protocol Abnormality, the system generates ISDN304 log reports.

Set this parameter to ON to generate ISDN304 Layer 2 Protocol Abnormality log reports. The log reports contain the FRMR frame Rcvd message in the Abnormality field. The system generates these log reports office-wide.

Set this parameter to OFF to disable the generation of ISDN304 Layer 2 Protocol Abnormality log reports. The system does not generate logs that contain FRMR frame Rcvd in the Abnormality field. This action disables log generation office-wide.

Note: You can use the L2ABNLOGCTL command or table control to make entries in table L2ABNLOG. These entries override parameter instructions for log generation office-wide.

Rules in provisioning

Use table control to set the value of this parameter to ON to generate ISDN304 Layer 2 Protocol Abnormality log reports. The log reports contain the FRMR frame Rcvd message in the Abnormality field. The system generates these logs office-wide.

Leave this parameter at the default value of OFF. This setting prevents the generation of ISDN304 Layer 2 Protocol Abnormality log reports. The system does not generate the log reports that contain the FRMR frame Rcvd message in the Abnormality field. This setting prevents log generation office-wide.

L2_FRMR_FRAME_RCVD (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN304 Layer 2 Protocol Abnormality log reports. The system does not generate log reports that contain the FRMR frame Rcvd message in the Abnormality field. This setting prevents log generation office-wide. Use the L2LOGCTRL command or data entry in tables L2ABNLOG to activate these logs.

Verification

Set the value of this parameter to OFF. Verify that the system did not generate ISDN304 Layer 2 Protocol Abnormality logs that contain the FRMR frame Rcvd message in the Abnormality field.

Verify that ISDN304 Layer 2 Protocol Abnormality logs that contain the FRMR frame Rcvd message in the Abnormality field are not active. Use the L2LOGCTL command or a manual entry in table L2ABNLOG to activate these logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L2_INVALID_FRAME_RCVD

Parameter name

Layer 2 Invalid Frame Received

Functional description

This parameter enables or disables the generation of ISDN304 Layer 2 Protocol Abnormality log reports. The parameter enables or disables log reports that contain the Invalid Frames Rcvd message in the Abnormality field. This parameter enables or disables these log reports office-wide.

Technical requirement TR821 specifies a Layer 2 Protocol Abnormality. The D-channel (DCH) or enhanced D-channel (EDCH) handler detects a Layer 2 Protocol Abnormality. When the DCH or EDCH handler detects a Layer 2 Protocol Abnormality, the system generates ISDN304 log reports.

Set this parameter to ON to generate ISDN304 Layer 2 Protocol Abnormality log reports office-wide. The log reports contain the Invalid Frames Rcvd message in the Abnormality field .

Set this parameter to OFF to disable the generation of ISDN304 Layer 2 Protocol Abnormality log reports. The log reports contain the Invalid Frames Rcvd message in the Abnormality field.

Note: The user can override instructions for office-wide log generation determined in these parameters. Use the L2LOGCTL command or table control to enter data in table L2ABNLOG. These entries activate the generation of the logs.

Rules in provisioning

Set the value of this parameter to ON to generate ISDN304 Layer 2 Protocol Abnormality log reports office-wide. The log reports contain the Invalid Frames Rcvd message in the Abnormality field. Use table control to set the value of this parameter to ON.

Leave this parameter at the default value of OFF to prevent ISDN304 Layer 2 Protocol Abnormality log reports office-wide. The log reports contain the Invalid Frames Rcvd message in the Abnormality field.

L2_INVALID_FRAME_RCVD (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN304 Layer 2 Protocol Abnormality log reports. These reports contain the Invalid Frames Rcvd message in the Abnormality field. The OFF setting disables log generation office-wide. Use the L2LOGCTRL command or enter data in table L2ABNLOG to activate these logs.

Verification

Set the value of this parameter to OFF. Verify that the system generates ISDN304 Layer 2 Protocol Abnormality log reports. These log reports contain the Invalid Frames Rcvd message in the Abnormality field.

Verify that ISDN304 Layer 2 Protocol Abnormality log reports that contain the Invalid Frames received message in the Abnormality field are not active. The L2LOGCTL command or a manual entry in table L2ABNLOG can activate these logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L2_PROPER_RESPONSE_NOT_RCVD

Parameter name

Layer 2 Proper Response Not Received

Functional description

This parameter enables or disables the generation of ISDN304 Layer 2 Protocol Abnormality log reports. The parameter enables or disables log reports. These reports contain the Proper response not Rcvd to estab or reset link after N200 SABME sent message. This message appears in the Abnormality field of these logs. This parameter enables or disables these log reports office-wide.

The technical requirement TR821 specifies a Layer 2 Protocol Abnormality. The D-channel (DCH) or enhanced D-channel (EDCH) handler detects a Layer 2 Protocol Abnormality. When the DCH or EDCH detects a Layer 2 Protocol Abnormality, the system generates ISDN304 log reports.

Set this parameter to ON to generate ISDN304 Layer 2 Protocol Abnormality log reports. The log reports contain the Proper response. The Proper response refers to not Rcvd to estab or reset link after N200 SABME sent message in the Abnormality field. The system generates these logs office-wide.

Set this parameter to OFF to disable the generation of ISDN304 Layer 2 Protocol Abnormality log reports. The system does not generate the logs that contain the Proper response. The Proper response refers to not Rcvd to estab or reset link after N200 SABME sent message in the Abnormality field.

Note: The user can override instructions for log generation office-wide that this parameter determines. Use the L2LOGCTL command or table control to enter data in table L2ABNLOG. These entries activate log generation.

Rules in provisioning

Set the value of this parameter to ON to generate ISDN304 Layer 2 Protocol Abnormality log reports office-wide. The log reports contain the Proper response. The Proper response refers to not Rcvd to estab or reset link after N200 SABME sent message in the Abnormality field. Use table control to set the value of this parameter to ON.

Leave this parameter at the default value of OFF. This action prevents the generation of ISDN304 Layer 2 Protocol Abnormality log reports office-wide. The logs contain the Proper response. The Proper response refers to not Rcvd to estab or reset link after N200 SABME sent message in the Abnormality field. The system does not generate the log if you set the value of this parameter to OFF.

L2_PROPER_RESPONSE_NOT_RCVD (continued)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN304 Layer 2 Protocol Abnormality log reports office-wide. The system does not generate logs that contain the Proper response. The Proper response refers to not Rcvd to estab or reset link after N200 SABME sent message in the Abnormality field. Use the L2LOGCTRL command or enter data in table L2ABNLOG to activate the logs.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate ISDN304 Layer 2 Protocol Abnormality log reports. These log reports contain the Proper response. The Proper response refers to not Rcvd to estab or reset link after N200 SABME sent message in the Abnormality field.

Verify that ISDN304 Layer 2 Protocol Abnormality log reports are not active. These log reports contain the Proper response. The Proper response refers to not Rcvd to estab or reset link after N200 SABME sent message in the Abnormality field. Use the L2LOGCTL command or a manual entry in table L2ABNLOG to activate these logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

L2_PROPER_RESPONSE_NOT_RCVD (end)

Parameter history

NA008

You will find this parameter introduced in NA008.

L3_CLEAR_REQ_RCVD

Parameter name

Layer 3 Clear Request Received

Functional description

This office parameter allows or disables the office-wide generation of layer 3 protocol abnormality log reports for X.25 packet data. The log reports display with the abnormality type "CLEAR REQUEST received".

Provisioning rules

The default value of this office parameter is ON. The default value allows the office-wide generation of log reports with the abnormality type "CLEAR REQUEST received".

Note: Table L3ABNLOG stores the reporting status for layer 3 control log entities for individual lines. Datafill in table L3ABNLOG can override the office parameter datafill for log report generation.

Range information

The values for this office parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Not applicable

Consequences

When the parameter has an ON value, office-wide log reports with the abnormality type "CLEAR REQUEST received" can generate if the following is true for individual lines:

- PKT is ON in table L3ABNLOG
- ABN19 is ON in table L3ABNLOG
- PKT_ABN_LOG is ON in table ISDNVAR

L3_CLEAR_REQ_RCVD (end)

When the parameter has an OFF value, office-wide log reports with the abnormality type "CLEAR REQUEST received" cannot generate. Also, the override bit must be OFF in table L3ABNLOG for individual lines.

Use the L3LOGCTL command or the table editor to edit table L3ABNLOG.

Verification

To verify that log reports with the abnormality type "CLEAR REQUEST received" generate office wide

- turn ON this office parameter
- ensure that PKT is ON in table L3ABNLOG for individual lines
- ensure that ABN19 is ON in table L3ABNLOG for individual lines
- ensure that PKT_ABN_LOG is ON in table ISDNVAR

To verify that log reports with the abnormality type "CLEAR REQUEST received" do not generate office wide

- turn OFF this office parameter
- ensure that the override bit has an OFF value in table L3ABNLOG for individual lines

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history

NA010

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

L3_CLEAR_REQ_TRANS

Parameter name

Layer 3 Clear Request Transmitted

Functional description

This office parameter allows or disables the office-wide generation of layer 3 protocol abnormality log reports for X.25 packet data. The log reports display with the abnormality type "CLEAR INDICATION transmitted".

Provisioning rules

The default value of this office parameter is ON. The default value allows the office-wide generation of log reports with the abnormality type "CLEAR INDICATION transmitted".

Note: Table L3ABNLOG stores the reporting status for layer 3 control log entities for individual lines. Datafill in table L3ABNLOG can override the office parameter datafill for log report generation.

Range information

The values for this office parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, office-wide log reports with the abnormality type "CLEAR INDICATION transmitted" can generate if the following is true for individual lines:

- PKT is ON in table L3ABNLOG
- ABN18 is ON in table L3ABNLOG
- PKT_ABN_LOG is ON in table ISDNVAR

L3_CLEAR_REQ_TRANS (end)

When this parameter has an OFF value, office-wide log reports with the abnormality type "CLEAR INDICATION transmitted" cannot generate. Also, the override bit must be OFF in table L3ABNLOG for individual lines.

Use the L3LOGCTL command or the table editor to edit table L3ABNLOG.

Verification

To verify that log reports with the abnormality type "CLEAR INDICATION transmitted" generate office wide

- turn ON this office parameter
- ensure that PKT is ON in table L3ABNLOG for individual lines
- ensure that ABN18 is ON in table L3ABNLOG for individual lines
- ensure that PKT_ABN_LOG is ON in table ISDNVAR

To verify that log reports with the abnormality type "CLEAR INDICATION transmitted" do not generate office wide

- turn OFF this office parameter
- ensure that the override bit has an OFF value in table L3ABNLOG for individual lines

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history

NA010

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

L3_DIAG_PKT_RCVD

Parameter name

Layer 3 Diagnostic Packet Received

Functional description

This office parameter allows or disables the office-wide generation of layer 3 protocol abnormality log reports for X.25 packet data. The log reports display with the abnormality type "DIAGNOSTIC PACKET received".

Provisioning rules

The default value of this office parameter is ON. The default value allows the office-wide generation of log reports with the abnormality type "DIAGNOSTIC PACKET received".

Note: Table L3ABNLOG stores the reporting status for layer 3 control log entities for individual lines. Datafill in table L3ABNLOG can override the office parameter datafill for log report generation.

Range information

The values for this office parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, office-wide log reports with the abnormality type "DIAGNOSTIC PACKET received" can generate if the following is true for individual lines:

- PKT is ON in table L3ABNLOG
- ABN21 is ON in table L3ABNLOG
- PKT_ABN_LOG is ON in table ISDNVAR

L3_DIAG_PKT_RCVD (end)

When this parameter has an OFF value, office-wide log reports with the abnormality type "DIAGNOSTIC PACKET received" cannot generate. Also, the override bit must be OFF in table L3ABNLOG for individual lines.

Use the L3LOGCTL command or the table editor to edit table L3ABNLOG.

Verification

To verify that log reports with the abnormality type "DIAGNOSTIC PACKET received" generate office wide

- turn ON this office parameter
- ensure that PKT is ON in table L3ABNLOG for individual lines
- ensure that ABN21 is ON in table L3ABNLOG for individual lines
- ensure that PKT_ABN_LOG is ON in table ISDNVAR

To verify that log reports with the abnormality type "DIAGNOSTIC PACKET received" do not generate office wide

- turn OFF this office parameter
- ensure that the override bit has an OFF value in table L3ABNLOG for individual lines

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history

NA010

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

L3_DIAG_PKT_TRANS

Parameter name

Layer 3 Diagnostic Packet Transmitted

Functional description

This office parameter allows or disables the office-wide generation of layer 3 protocol abnormality log reports for X.25 packet data. The log reports display with the abnormality type "DIAGNOSTIC PACKET transmitted".

Provisioning rules

The default value of this office parameter is ON. The default value allows the office-wide generation of log reports with the abnormality type "DIAGNOSTIC PACKET transmitted".

Note: Table L3ABNLOG stores the reporting status for layer 3 control log entities for individual lines. Datafill in table L3ABNLOG can override the office parameter datafill for log report generation.

Range information

The values for this office parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, office-wide log reports with the abnormality type "DIAGNOSTIC PACKET transmitted" can generate if the following is true for individual lines:

- PKT is ON in table L3ABNLOG
- ABN20 is ON in table L3ABNLOG
- PKT_ABN_LOG is ON in table ISDNVAR

L3_DIAG_PKT_TRANS (end)

When this parameter has an OFF value, office-wide log reports with the abnormality type "DIAGNOSTIC PACKET transmitted" cannot generate. Also, the override bit must be OFF in table L3ABNLOG for individual lines.

Use the L3LOGCTL command or the table editor to edit table L3ABNLOG.

Verification

To verify that log reports with the abnormality type "DIAGNOSTIC PACKET transmitted" generate office wide

- turn ON this office parameter
- ensure that PKT is ON in table L3ABNLOG for individual lines
- ensure that ABN20 is ON in table L3ABNLOG for individual lines
- ensure that PKT_ABN_LOG is ON in table ISDNVAR

To verify that log reports with the abnormality type "DIAGNOSTIC PACKET transmitted" do not generate office wide

- turn OFF this office parameter
- ensure that the override bit has an OFF value in table L3ABNLOG for individual lines

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history

NA010

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

L3_DISCONNECT_MSG_RCVD

Parameter name

Layer 3 Disconnect Message Received

Functional description

This parameter enables or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The parameter enables or disables log reports that contain the DISCONNECT received message in the Abnormality field.

The technical requirement TR821 specifies a Layer 3 Protocol Abnormality. The extended peripheral module unified processor (XPM UP) can detect a Layer 3 Protocol Abnormality. When the XPM UP detects a Layer 3 Protocol Abnormality, the system generates ISDN301 log reports.

Set this parameter to ON to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The log reports contain the DISCONNECT received message in the Abnormality field.

Set this parameter to OFF to disable the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate the logs that contain the DISCONNECT received message in the Abnormality field.

Note: The user can override instructions for log generation office-wide. Use the L3LOGCTL command or table control to enter data in table L3ABNLOG. These entries activate log generation.

Rules in provisioning

Leave this parameter set to the default value of ON to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system generates log reports that contain the DISCONNECT received message in the Abnormality field. The system generates these logs when the parameter is ON.

Set this parameter to OFF to prevent the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate logs that contain the DISCONNECT received message in the Abnormality field. Use table control to set the value of this parameter to OFF.

L3_DISCONNECT_MSG_RCVD (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate logs that contain the DISCONNECT received message in the Abnormality field. Use the L3LOGCTRL command or enter data in table L3ABNLOG to activate the logs.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports. These reports contain the DISCONNECT received message in the Abnormality field.

Verify that ISDN301 Layer 3 Protocol Abnormality log reports. These reports contain the DISCONNECT received message in the Abnormality field are not active. The L3LOGCTL command or a manual entry in table L3ABNLOG can activate the logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA008

This parameter was introduced in NA008.

L3_DISCONNECT_MSG_TRANS

Parameter name

Layer 3 Disconnect Message Transmitted

Functional description

This parameter enables or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports. These log reports contain the DISCONNECT transmitted message in the Abnormality field. This parameter enables or disables these log reports office-wide.

The technical requirement TR821 specifies a Layer 3 Protocol Abnormality. The extended peripheral module unified processor (XPM UP) detects a Layer 3 Protocol Abnormality. When the XPM UP detects a Layer 3 Protocol Abnormality, the system generates ISDN301 log reports.

Set this parameter to ON to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The log reports contain the DISCONNECT transmitted message in the Abnormality field.

Set this parameter to OFF to disable the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The log reports contain the DISCONNECT transmitted message in the Abnormality field.

Note: The user can override instructions for log generation office-wide. Use the L3LOGCTL command or table control to enter data in table L2ABNLOG. These data entries cause the system to generate the logs.

Rules in provisioning

Leave the parameter set to the default value of ON. This action causes the system to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. These log reports contain the DISCONNECT transmitted message in the Abnormality field when this parameter is ON.

Set this parameter to OFF to prevent the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. These log reports contain the DISCONNECT transmitted message in the Abnormality field. Use table control to set the value of this parameter to OFF.

L3_DISCONNECT_MSG_TRANS (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. These log reports contain the DISCONNECT transmitted message in the Abnormality field. Use the L3LOGCTRL command, or enter data in table L3ABNLOG to activate the logs.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports that contain the DISCONNECT transmitted message in the Abnormality field.

Verify that ISDN301 Layer 3 Protocol Abnormality log reports that contain the DISCONNECT transmitted message in the Abnormality field are not active. Use the L3LOGCTL command or enter data in table L3ABNLOG to activate the logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA008

This parameter was introduced in NA008.

L3_MSG_RCVD_BAD_LENGTH

Parameter name

Layer 3 Message Received Bad Length

Functional description

This parameter enables or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports. This parameter enables or disables log reports that contain the MSG Rcvd less than min length message in the Abnormality field. This parameter enables or disables these log reports office-wide.

The technical requirement TR821 specifies a Layer 3 Protocol Abnormality. The extended peripheral module unified processor (XPM UP) can detect a Layer 3 Protocol Abnormality. When the XPM UP detects a Layer 3 Protocol Abnormality, the system generates ISDN301 log reports.

Set this parameter to ON to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The log reports contain the MSG Rcvd less than min length message in the Abnormality field.

Set this parameter to OFF to disable the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. These logs contain the MSG Rcvd less than min length message in the Abnormality field.

Note: The user can override instructions for log generation determined in this parameter office-wide. Use the L3LOGCTL command or table control to enter data in table L3ABNLOG. This action causes the system to generate these logs.

Rules in provisioning

Leave the parameter at the default value of ON to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. These log reports contain the MSG Rcvd less than min length message in the Abnormality field.

Set the value of this parameter to OFF to prevent the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate log reports that contain the MSG Rcvd less than min length message in the Abnormality field. Use table control to set the value of this parameter to OFF.

L3_MSG_RCVD_BAD_LENGTH (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate the log reports that contain the MSG Rcvd less than min length message in the Abnormality field. Use the L3LOGCTRL command, or enter data in table L3ABNLOG to activate these logs.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports. The system does not generate the log reports that contain the MSG Rcvd less than min length message in the Abnormality field.

Verify that ISDN301 Layer 3 Protocol Abnormality log reports that contain the MSG Rcvd less than min length message in the Abnormality field are not active. Use the L3LOGCTL command or enter data in table L3ABNLOG to activate these logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA008

This parameter was introduced in NA008.

L3_MSG_RCVD_INVALID_CR_FLAG

Parameter name

Layer 3 Message Received Invalid Call Reference Flag

Functional description

This parameter enables or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. This parameter enables or disables log reports that contain the SETUP Rcvd with CR flag incorrectly set to 1 message in the Abnormality field.

The technical requirement TR821 specifies a Layer 3 Protocol Abnormality. The extended peripheral module unified processor (XPM UP) can detect a Layer 3 Protocol Abnormality. When the XPM UP detects a Layer 3 Protocol Abnormality, the system generates ISDN301 log reports.

Set this parameter to ON to generate ISDN301 log reports office-wide. The log reports contain the SETUP Rcvd with CR flag incorrectly set to 1 message in the Abnormality field.

Set this parameter to OFF to disable the generation of ISDN301 log reports office-wide. The system does not generate the log reports that contain the SETUP Rcvd with CR flag incorrectly set to 1 message in the Abnormality field.

Note: The user can override instructions for log generation office-wide. Use the L3LOGCTL command or table control to enter data in table L3ABNLOG. This action causes the system to generate these logs.

Rules in provisioning

Leave the parameter set to the default value of ON to generate ISDN301 log reports office-wide. The log reports contain the SETUP Rcvd with CR flag incorrectly set to 1 message in the Abnormality field.

Set the value of this parameter to OFF to prevent the generation of ISDN301 log reports office-wide. The system does not generate log reports that contain the SETUP Rcvd with CR flag incorrectly set to 1 message in the Abnormality field. Use table control to set the value of this parameter to OFF.

L3_MSG_RCVD_INVALID_CR_FLAG (end)

Range information

The choice of values for this parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN301 log reports office-wide. The system does not generate log reports that contain the SETUP Rcvd with CR flag incorrectly set to 1 message in the Abnormality field. The L3LOGCTRL command or data entry in table L3ABNLOG can activate these logs.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports. The system does not generate log reports that contain the SETUP Rcvd with CR flag incorrectly set to 1 message in the Abnormality field.

Verify that ISDN301 Layer 3 Protocol Abnormality log reports are not active. These log reports contain the SETUP Rcvd with CR flag incorrectly set to 1 message in the Abnormality field. The L3LOGCTL command or a manual entry in table L3ABNLOG can activate these logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA008

This parameter was introduced in NA008.

L3_MSG_RCVD_INVALID_CR_VALUE

Parameter name

Layer 3 Message Received Invalid Call Reference Value

Functional description

This parameter enables or disables the generation of log reports for ISDN301 Layer 3 Protocol Abnormality. These log reports display MSG Rcvd with an inval CR value in the Abnormality field. This parameter enables or disables these log reports for the entire office.

The extended peripheral module unified processor (XPM UP) detects a Layer 3 Protocol Abnormality specified in technical requirement TR821. The system generates ISDN301 Layer 3 Protocol Abnormality log reports when this event occurs.

If you set this parameter to ON, the system can generate log reports for ISDN301 Layer 3 Protocol Abnormality. These log reports display MSG Rcvd with an inval CR value in the Abnormality field for the entire office.

If you set this parameter to OFF, the system can disable the generation of log reports for ISDN301 Layer 3 Protocol Abnormality. These log reports display MSG Rcvd with an inval CR value in the Abnormality field for the complete office.

Note: You can use the L3LOGCTL command or table control to make entries in table L3ABNLOG. These entries cancel the parameter instructions for log generation for the complete office.

Rules in provisioning

Leave this parameter set to the default value of ON to generate log reports for ISDN301 Layer 3 Protocol Abnormality. These log reports display MSG Rcvd with an inval CR value in the Abnormality field for the complete office.

Use the table control to set the value of this parameter to OFF. You can set the value to OFF if you do not want the system to generate log reports for ISDN301 Layer 3 Protocol Abnormality. These log reports display MSG Rcvd with an inval CR value in the Abnormality field for the complete office.

L3_MSG_RCVD_INVALID_CR_VALUE (end)

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

If you set this parameter to OFF, the system does not generate log reports for ISDN301 Layer 3 Protocol Abnormality. These log reports display MSG Rcvd with an inval CR value in the Abnormality field. The system does not generate these log reports for the complete office. The system generates the log reports when the user activated the log reports with the L3LOGCTRL command or data entry in table L3ABNLOG.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate log reports for ISDN301 Layer 3 Protocol Abnormality. These log reports display MSG Rcvd with an inval CR value in the Abnormality field.

Verify that the log reports for ISDN301 Layer 3 Protocol Abnormality Layer 3 Protocol Abnormality are not active. These log reports display MSG Rcvd with an inval CR value in the Abnormality field. A manual entry in table L3ABNLOG or use of the L3LOGCTL command causes the system to activate these log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA008

This parameter introduced in NA008.

L3_MSG_RCVD_INVALID_INFO

Parameter name

Layer 3 Message Received Invalid Information

Functional description

This parameter enables or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The parameter enables or disables log reports that contain the MSG Rcvd with invalid protocol discriminator message in the Abnormality field.

Technical requirement TR821 specifies a Layer 3 Protocol Abnormality. The extended peripheral module unified processor (XPM UP) can detect a Layer 3 Protocol Abnormality. When the XPM UP detects a Layer 3 Protocol Abnormality, the system generates ISDN301 log reports.

Set this parameter to ON to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The log reports contain the MSG Rcvd with inval protocol discriminator message in the Abnormality field.

Set this parameter to OFF to disable the ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate the log reports that contain the MSG Rcvd with invalid protocol discriminator message in the Abnormality field.

Note: Use the L3LOGCTL command or table control to enter data in table L3ABNLOG. This action overrides instructions for office-wide log generation.

Rules in provisioning

Leave this parameter at the default value of ON to generate ISDN301 Layer 3 Protocol Abnormality log reports office wide. The system generates the log reports that contain the MSG Rcvd with invalid protocol discriminator message in the Abnormality field.

Set this parameter to OFF to prevent the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate the log reports that contain the MSG Rcvd with invalid protocol discriminator message in the Abnormality field. Use table control to set the value of this parameter to OFF.

L3_MSG_RCVD_INVALID_INFO (continued)

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate logs that contain the MSG Rcvd with invalid protocol discriminator message in the Abnormality field. Use the L3LOGCTRL command or enter data in table L3ABNLOG to activate the logs.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports. These log reports contain the MSG Rcvd with invalid protocol discriminator message in the Abnormality field.

Verify that ISDN301 Layer 3 Protocol Abnormality Layer 3 Protocol Abnormality log reports that contain the MSG Rcvd with invalid protocol discriminator message are not active. The MSG Rcvd with invalid protocol discriminator message appears in the Abnormality field of the logs. The L3LOGCTL command or a manual entry in table L3ABNLOG can activate these logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

L3_MSG_RCVD_INVALID_INFO (end)

Parameter history

NA008

This parameter introduced in NA008.

L3_PROGRESS_MSG_TRANS

Parameter name

Layer 3 Progress Message Transmitted

Functional description

This parameter enables or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The parameter enables or disables log reports that contain the PROGRESS transmitted message in the Abnormality field.

Technical requirement TR821 specifies a Layer 3 Protocol Abnormality. The extended peripheral module unified processor (XPM UP) can detect a Layer 3 Protocol Abnormality. When the XPM UP detects a Layer 3 Protocol Abnormality, the system generates ISDN301 log reports.

Set this parameter to ON to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The log reports contain the PROGRESS transmitted message in the Abnormality field.

Set this parameter to OFF to disable the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate the log reports that contain the PROGRESS transmitted message in the Abnormality field.

Note: The user can override instruction for log generation office-wide. Use the L3LOGCTL command or table control to enter data in table L3ABNLOG.

Rules in provisioning

Leave this parameter at the default value of ON to generate ISDN301 Layer 3 Protocol Abnormality log reports. These log reports contain the PROGRESS transmitted message in the Abnormality field.

Set the value of this parameter to OFF to disable the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide. These log reports contain the PROGRESS transmitted message in the Abnormality field. Use table control to set the value of this parameter to OFF.

L3_PROGRESS_MSG_TRANS (end)

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

If the user sets this parameter to OFF, the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. The system does not generate logs that contain the PROGRESS transmitted message in the Abnormality field. The L3LOGCTRL command or data entry in table L3ABNLOG can activate the logs.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate ISDN301 Layer 3 Protocol Abnormality logs that contain PROGRESS transmitted message in the Abnormality field.

Verify that ISDN301 Layer 3 Protocol Abnormality logs that contain the PROGRESS transmitted message in the Abnormality field are not active. The L3LOGCTL command or a manual entry in table L3ABNLOG can activate these logs.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L3_RELEASE_COMPL_MSG_RCVD

Parameter name

Layer 3 Release Complete Message Received

Functional description

This parameter makes able or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays: REL COMPLETE received. This parameter makes able or disables these log reports office-wide.

When the extended peripheral module unified processor (XPM UP) detects a Layer 3 Protocol Abnormality specified in technical requirement TR821, the system generates ISDN301 log reports.

The user can set this parameter to ON. This action makes able the office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays REL COMPLETE received.

The user can set this parameter to OFF. This action disables the office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays REL COMPLETE received.

Note: Use the L3LOGCTL command or table control to make entries in table L3ABNLOG that override the parameter instructions for log generation. Log generation is office-wide.

Rules in provisioning

The default value of this parameter is ON. Leave this parameter set to ON to generate these ISDN301 Layer 3 Protocol Abnormality log reports office-wide.

The value of this parameter can be set to OFF. Set this parameter to off to prevent the generation of these ISDN301 Layer 3 Protocol Abnormality log reports office-wide. Use table control to set the value of this parameter to OFF.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

L3_RELEASE_COMPL_MSG_RCVD (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is OFF, the system does not generate these ISDN301 Layer 3 Protocol Abnormality log reports. The user can use the L3LOGCTRL command or a manual entry in table L3ABNLOG to activate the log reports.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate any ISDN301 Layer 3 Protocol Abnormality log reports.

Verify that the L3GLOGCTL command or a manual entry in table L3ABNLOG did not activate these ISDN301 Layer 3 Protocol Abnormality log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L3_RELEASE_COMPL_MSG_TRANS

Parameter name

Layer 3 Release Complete Message Transmitted

Functional description

This parameter makes able or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays: RELEASE COMPLETE transmitted. This parameter makes able or disables these logs office-wide.

If the extended peripheral module unified processor (XPM UP) detects a Layer 3 Protocol Abnormality specified in technical requirement TR821, the system generates ISDN301 log reports.

The user can set this parameter to ON. This action makes able the office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays RELEASE COMPLETE transmitted.

The user can set this parameter to OFF. This action disables the office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays RELEASE COMPLETE transmitted.

Note: Use the L3LOGCTL command or table control to make entries in table L3ABNLOG. These commands override the parameter instructions for office-wide log generation.

Rules in provisioning

The default value of this parameter is ON. Leave this parameter set to ON to generate these ISDN301 Layer 3 Protocol Abnormality log reports office-wide.

Set the value of this parameter to OFF to prevent the generation of these ISDN301 Layer 3 Protocol Abnormality log reports office-wide. Use table control to set the value of this parameter to OFF.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

L3_RELEASE_COMPL_MSG_TRANS (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

The user can set this parameter to OFF. This action disables the office-wide generation of these ISDN301 Layer 3 Protocol Abnormality log reports. Use the L3LOGCTRL command or a manual entry in table L3ABNLOG to activate the log reports.

Verification

Set the value of this parameter to OFF. Verify that the system did not generate any ISDN301 Layer 3 Protocol Abnormality log reports.

Verify that the L3LOGCTL command or a manual entry in table L3ABNLOG did not activate these ISDN301 Layer 3 Protocol Abnormality log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L3_RELEASE_MSG_RCVD

Parameter name

Layer 3 Release Message Received

Functional description

This parameter makes able or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays: RELEASE received. This parameter makes able or disables these log reports office-wide.

If the extended peripheral module unified processor (XPM UP) detects a Layer 3 Protocol Abnormality specified in technical requirement TR821, the system generates ISDN301 log reports.

The user can set this parameter to ON. This action makes able the office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays RELEASE received.

The user can set this parameter to OFF. This action disables the office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays RELEASE received.

Note: Use the L3LOGCTL command or table control to make entries in table L3ABNLOG. These commands override the parameter instructions for office-wide log generation.

Rules in provisioning

The default value of this parameter is ON. Leave this parameter set to ON to generate these ISDN301 Layer 3 Protocol Abnormality log reports office-wide.

Set the value of this parameter to OFF to prevent office-wide generation of these ISDN301 Layer 3 Protocol Abnormality log reports. Use table control to set the value of this parameter to OFF.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

L3_RELEASE_MSG_RCVD (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

The user can set this parameter to OFF. This action disables the generation of these ISDN301 Layer 3 Protocol Abnormality log reports office-wide. When the parameter OFF the user can use the L3LOGCTRL command or data entry in table L3ABNLOG to activate the log reports.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate any of these ISDN301 Layer 3 Protocol Abnormality log reports.

Verify that the L3LOGCTL command or a manual entry in table L3ABNLOG did not activate these ISDN301 Layer 3 Protocol Abnormality log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA0008.

L3_RELEASE_MSG_TRANS

Parameter name

Layer 3 Release Message Transaction

Functional description

This parameter makes able or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports. Log generation occurs where the Abnormality field displays: RELEASE transmitted. This parameter makes able or disables these log reports office-wide.

If the extended peripheral module unified processor (XPM UP) detects a Layer 3 Protocol Abnormality specified in technical requirement TR821, the system generates ISDN301 log reports.

The user can set this parameter to ON. This action makes able the office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports. Log Generation occurs where the Abnormality field displays: RELEASE transmitted.

The user can set this parameter to OFF. This action disables the office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports. Log generation occurs where the Abnormality field displays: RELEASE transmitted.

Note: Use the L3LOGCTL command or table control to make entries in table L3ABNLOG. These commands override the parameter instructions for office-wide log generation.

Rules in provisioning

The default value of this parameter is ON. Leave this parameter set to ON to generate these ISDN301 Layer 3 Protocol Abnormality log reports, office-wide.

Set the value of this parameter to OFF to make able the office-wide generation of these ISDN301 Layer 3 Protocol Abnormality log reports. Use table control to set the parameter to OFF.

L3_RELEASE_MSG_TRANS (end)

Range information

The choice of value for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

The user can set this parameter to OFF. This action disables office-wide generation of these ISDN301 Layer 3 Protocol Abnormality log reports. The user can use the L3LOGCTRL command or a manual entry to activate the log reports in table L3ABNLOG.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate these ISDN301 Layer 3 Protocol Abnormality log reports.

Verify that L3LOGCTL command or a manual entry in table L3ABNLOG did not activate these ISDN301 Layer 3 Protocol Abnormality log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced NA008.

L3_RESET_REQ_RCVD

Parameter name

Layer 3 Reset Request Received

Functional description

This office parameter allows or disables the office-wide generation of layer 3 protocol abnormality log reports for X.25 packet data. The log reports display with the abnormality type "RESET REQUEST received".

Provisioning rules

The default value of this office parameter is ON. The default value allows the office-wide generation of log reports with the abnormality type "RESET REQUEST received".

Note: Table L3ABNLOG stores the reporting status for layer 3 control log entities for individual lines. Datafill in table L3ABNLOG can override the office parameter datafill for log report generation.

Range information

The values for this office parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, office-wide log reports with the abnormality type "RESET REQUEST received" can generate if the following is true for individual lines:

- PKT is ON in table L3ABNLOG
- ABN17 is ON in table L3ABNLOG
- PKT_ABN_LOG is ON in table ISDNVAR

L3_RESET_REQ_RCVD (end)

When this parameter has an OFF value, office-wide log reports with the abnormality type "RESET REQUEST received" cannot generate. Also, the override bit must be OFF in table L3ABNLOG for individual lines.

Use the L3LOGCTL command or the table editor to edit table L3ABNLOG.

Verification

To verify that log reports with the abnormality type "RESET REQUEST received" generate office wide

- turn ON this office parameter
- ensure that PKT is ON in table L3ABNLOG for individual lines
- ensure that ABN17 is ON in table L3ABNLOG for individual lines
- ensure that PKT_ABN_LOG is ON in table ISDNVAR

To verify that log reports with the abnormality type "RESET REQUEST received" do not generate for an entire office

- turn OFF this office parameter
- ensure that the override bit has an OFF value in table L3ABNLOG for individual lines

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history**NA010**

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

L3_RESET_REQ_TRANS

Parameter name

Layer 3 Reset Request Transmitted

Functional description

This office parameter allows or disables the office-wide generation of layer 3 protocol abnormality log reports for X.25 packet data. The log reports display with the abnormality type "RESET INDICATION transmitted".

Provisioning rules

The default value of this office parameter is ON. The default value allows the office-wide generation of log reports with the abnormality type "RESET INDICATION transmitted".

Note: Table L3ABNLOG stores the reporting status for layer 3 control log entities for individual lines. Datafill in table L3ABNLOG can override the office parameter datafill for log report generation.

Range information

The values for this office parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, office-wide log reports with the abnormality type "RESET INDICATION transmitted" can generate if the following is true for individual lines:

- PKT is ON in table L3ABNLOG
- ABN16 is ON in table L3ABNLOG
- PKT_ABN_LOG is ON in table ISDNVAR

L3_RESET_REQ_TRANS (end)

When this parameter has an OFF value, office-wide log reports with the abnormality type "RESET INDICATION transmitted" cannot generate. Also, the override bit must be OFF in table L3ABNLOG for individual lines.

Use the L3LOGCTL command or the table editor to edit table L3ABNLOG.

Verification

To verify that log reports with the abnormality type "RESET INDICATION transmitted" generate office wide

- turn ON this parameter
- ensure that PKT is ON in table L3ABNLOG for individual lines
- ensure that ABN16 is ON in table L3ABNLOG for individual lines
- ensure that PKT_ABN_LOG is ON in table ISDNVAR

To verify that log reports with the abnormality type "RESET INDICATION transmitted" do not generate office wide

- turn OFF this office parameter
- ensure that the override bit has an OFF value in table L3ABNLOG for individual lines

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history**NA010**

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

L3_RESTART_REQ_RCVD

Parameter name

Layer 3 Restart Request Received

Functional description

This office parameter allows or disables the office-wide generation of layer 3 protocol abnormality log reports for X.25 packet data. The log reports display with the abnormality type "RESTART REQUEST received".

Provisioning rules

The default value of this office parameter is ON. The default value allows the office-wide generation of log reports with the abnormality type "RESTART REQUEST received".

Note: Table L3ABNLOG stores the reporting status for layer 3 control log entities for individual lines. Datafill in table L3ABNLOG can override the office parameter datafill for log report generation.

Range information

The values for this office parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, office-wide log reports with the abnormality type "RESTART REQUEST received" can generate if the following is true for individual lines:

- PKT is ON in table L3ABNLOG
- ABN15 is ON in table L3ABNLOG
- PKT_ABN_LOG is ON in table ISDNVAR

L3_RESTART_REQ_RCVD (end)

When this parameter has an OFF value, office-wide log reports with the abnormality type "RESTART REQUEST received" cannot generate. Also, the override bit must be OFF in table L3ABNLOG for individual lines.

Use the L3LOGCTL command or the table editor to edit table L3ABNLOG.

Verification

To verify that log reports with the abnormality type "RESTART REQUEST received" generate office wide

- turn ON this office parameter
- ensure that PKT is ON in table L3ABNLOG for individual lines
- ensure that ABN15 is ON in table L3ABNLOG for individual lines
- ensure that PKT_ABN_LOG is ON in table ISDNVAR

To verify that log reports with the abnormality type "RESTART REQUEST received" do not generate office wide

- turn OFF this office parameter
- ensure that the override bit has an OFF value in table L3ABNLOG for individual lines

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history**NA010**

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

L3_RESTART_REQ_TRANS

Parameter name

Layer 3 Restart Request Transmitted

Functional description

This office parameter allows or disables the office-wide generation of layer 3 protocol abnormality log reports for X.25 packet data. The log reports display with the abnormality type "RESTART REQUEST transmitted".

Provisioning rules

The default value of this office parameter is ON. The default value allows the office-wide generation of log reports with the abnormality type "RESTART REQUEST transmitted".

Note: Table L3ABNLOG stores the reporting status for layer 3 control log entities for individual lines. Datafill in table L3ABNLOG can override the office parameter datafill for log report generation.

Range information

The values for this office parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, office-wide log reports with the abnormality type "RESTART REQUEST transmitted" can generate if the following is true for individual lines:

- PKT is ON in table L3ABNLOG
- ABN14 is ON in table L3ABNLOG
- PKT_ABN_LOG is ON in table ISDNVAR

L3_RESTART_REQ_TRANS (end)

When this parameter has an OFF value, office-wide log reports with the abnormality type "RESTART REQUEST transmitted" cannot generate. Also, the override bit must be OFF in table L3ABNLOG for individual lines.

Use the L3LOGCTL command or the table editor to edit table L3ABNLOG.

Verification

To verify that log reports with the abnormality type "RESTART REQUEST transmitted" generate office wide

- turn ON this office parameter
- ensure that PKT is ON in table L3ABNLOG for individual lines
- ensure that ABN14 is ON in table L3ABNLOG for individual lines
- ensure that PKT_ABN_LOG is ON in table ISDNVAR

To verify that log reports with the abnormality type "RESTART REQUEST transmitted" do not generate office wide

- turn OFF this office parameter
- ensure that the override bit has an OFF value in table L3ABNLOG for individual lines

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history**NA010**

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

L3_STATUS_MSG_RCVD

Parameter name

Layer 3 Status Message Received

Functional description

This parameter allows or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received. This parameter allows or disables these log reports office-wide.

If the extended peripheral module unified processor (XPM UP) detects a Layer 3 Protocol Abnormality specified in technical requirement TR821, the system generates ISDN301 log reports.

Set this parameter to ON. The system generates, office-wide, ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received.

Set this parameter to OFF. The system generates, office-wide, ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received.

Note: Use the L3LOGCTL command or table control to make entries in table L3ABNLOG. These entries will override the parameter instructions for office-wide log generation.

Rules in provisioning

The default value of this parameter is ON. This default allows the system to generate ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received.

Use table control to set the value of this parameter to OFF. This value disables office-wide generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

L3_STATUS_MSG_RCVD (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

Set this parameter to OFF. The system cannot generate, office-wide, ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received. Now the user can activate these logs only through the use of the L3LOGCTRL command or manual entry in table L3ABNLOG.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate these ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received.

Verify that the L3LOGCTL command or a manual entry in table L3ABNLOG did not activate ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L3_STATUS_MSG_TRANS

Parameter name

Layer 3 Status Message Transmitted

Functional description

This parameter allows or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS transmitted. This parameter allows or disables these log reports office-wide.

If the extended peripheral module unified processor (XPM UP) detects a Layer 3 Protocol Abnormality specified in technical requirement TR821, the system generates ISDN301 log reports.

Set this parameter to ON. The system generates, office-wide, ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality field displays STATUS received.

Set this parameter to OFF. The system cannot generate, office-wide, ISDN301 Layer 3 Protocol Abnormality log reports where the Abnormality displays STATUS received.

Note: Use the L3LOGCTL command or table control to make entries in table L3ABNLOG. These entries will override the parameter instructions for office-wide log generation.

Rules in provisioning

The default value of this parameter is ON. The default allows the system to generate these ISDN301 log reports.

Use table control to set the value of this parameter to OFF. This value prevents the office-wide generation of these ISDN301 log reports.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

L3_STATUS_MSG_TRANS (end)

Dependencies

Does not apply

Consequences

Set this parameter to OFF. The system cannot generate, office-wide, these ISDN301 Layer 3 Protocol Abnormality log reports. Now the user can activate these logs only through the use of the L3LOGCTRL command or manual entry in table L3ABNLOG.

Verification

Set the value of this parameter to OFF. Verify that the system did not generate these ISDN301 Layer 3 Protocol Abnormality log reports.

Verify that the L3LOGCTL command or a manual entry in table L3ABNLOG did not activate these ISDN301 Layer 3 Protocol Abnormality log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

L3_SVC_DSRPT_CTRL

Parameter name

Layer 3 Service Disruption Log Control

Functional description

This parameter controls the generation of ISDN311 Layer 3 Service Disruption Exceeded log reports for the office. Use this parameter to allow or prevent the generation of log ISDN311. The integrated services digital network (ISDN) subsystem generates log ISDN311. This log generates when the layer 3 service disruption count for circuit-switched services on an ISDN basic rate interface (BRI) line exceeds a threshold value. Office parameter L3_SVC_DSRPT_THLD in table ISDNVAR defines the threshold value.

If the user sets this parameter to ON, the system generates log ISDN311 office wide. If the user sets this parameter to OFF, the system disables generation of log ISDN311 office wide.

Note: Use the L3LOGCTL command or table control to make entries in table L3ABNLOG. These entries control the ISDN layer 3 abnormality logs for each line. Both parameter L3_SVC_DSRPT_CTRL and line parameter L3SD in table L3ABNLOG must be ON to generate the ISDN 311 log for a line.

Provisioning rules

Set this parameter to ON if you must generate ISDN311 Layer 3 Service Disruption Exceeded log reports. The ISDN subsystem allows generation of the report office wide. This means that if the override bit is OFF, then the log generates for lines whose status is ON.

Set this parameter to OFF to prevent generation of ISDN311 Layer 3 Service Disruption Exceeded log reports. The ISDN subsystem disables generation of this report office wide.

Range information

Minimum	Maximum	Default
OFF	ON	ON

Activation

Immediate

L3_SVC_DSRPT_CTRL (end)

Requirements

None

Results

If the user sets this parameter to OFF, the ISDN subsystem disables generation of ISDN311 log reports office wide. Set this parameter to ON to allow generation of log reports for the office. The system only generates the log reports when table L3ABNLOG contains the parameter L3SD set to ON for the line. Use the L3LOGCTL command or data entry in table L3ABNLOG to activate the log reports for each line.

Note: The technician can use the selected line's override parameter in table L3ABNLOG to override the office-wide setting. The inclusion of this parameter allows the technician to generate logs for separate lines when the office-wide setting is OFF.

Testing

Set this parameter to OFF. Check that the L3LOGCTL command or a manual entry in table L3ABNLOG did not activate the ISDN311 log reports. Check that the system does not generate any ISDN311 log reports that display: Service Disruption Exceeded.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA012**

This parameter was introduced in NA012.

L3_SVC_DSRPT_THLD

Parameter name

Layer 3 Service Disruption Threshold Value

Functional description

A DMS switch that supports the integrated services digital network (ISDN) XMS-based peripheral module (XPM) uses this parameter. For each line equipment number (LEN), the XPM reports a service disruption when the error count exceeds the value of this parameter.

This parameter indicates the threshold value for layer 3 LEN service disruptions for circuit-switched services. If the layer 3 service disruptions exceed this value, the ISDN subsystem generates log ISDN311 provided the error control is ON for both the office and the line.

The user can query the state of the LEN when the MAP terminal in the LTPISDN level posts the LEN.

Provisioning rules

Set this parameter to a value that represents the number of acceptable LEN errors before a LEN experiences a service disruption. Telcordia Technologies (formerly Bellcore) technical reference TR-NWT-000821 does not recommend a value for the parameter. The default value of 8 is not a calculated value.

Range information

Minimum	Maximum	Default
1	1000	8

Activation

Immediate

Requirements

None

Results

The default value for L3_SVC_DSRPT_THLD is 8. If the value for this parameter is low, then the log generates often. If the value for this parameter

L3_SVC_DSRPT_THLD (end)

is high, then the log may not generate even after the system reaches a serious stage of the service disruption count.

Testing

Does not apply

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA012**

This parameter was introduced in NA012.

LAPB_ABN_LOG

Parameter name

Link Access Procedure Balanced (LAPB) Abnormalities Log

Functional description

This parameter allows or disables the generation of LAPB log reports for related layer 2 protocol abnormalities.

When this parameter has an ON value, the ISDN subsystem can generate office-wide LAPB abnormality log reports.

When this parameter has an OFF value, the ISDN subsystem disables the generation of office-wide LAPB abnormality log reports.

Note: Table L2ABNLOG stores the reporting status for layer 2 control log reports for individual ISDN lines. Datafill in table L2ABNLOG can override the office parameter datafill for log report generation. Use the L2LOGCTL command or table control to make entries in table L2ABNLOG.

Provisioning rules

The default value of this parameter is OFF. Use table control to set the value of this parameter to ON. The ON value allows the office-wide generation of LAPB abnormality log reports.

Range information

The values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, the ISDN subsystem can generate office-wide LAPB abnormality log reports. End users can control these logs

LAPB_ABN_LOG (end)

with the L2LOGCTL command or through a table editor in table L2ABNLOG or table ISDNVAR.

Verification

Set the value of this parameter to ON. Verify that the ISDN subsystem generates office-wide LAPB abnormality log reports.

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history**NA010**

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

LAPD_ABN_LOG

Parameter name

Link Access Protocol for the D-channel Abnormality Log

Functional description

This parameter allows or disables the generation of ISDN Link Access Protocol for the D-channel (LAPD) Abnormality log reports. This parameter allows or disables these log reports office-wide.

When this parameter is set to ON, the system can generate the following ISDN LAPD abnormality log reports office-wide:

- ISDN 100
- ISDN 102
- ISDN 115
- ISDN 116
- ISDN 120
- ISDN 121
- ISDN122
- ISDN 304

When this parameter is set to OFF, the system disables the generation of the following ISDN LAPD abnormality log reports office-wide:

- ISDN 100
- ISDN 102
- ISDN 115
- ISDN 116
- ISDN 120
- ISDN 121
- ISDN122
- ISDN 304

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG. These entries will override the parameter instructions for log generation.

LAPD_ABN_LOG (continued)

Rules in provisioning

The default value of this parameter is ON. The default allows the system to generate the ISDN LAPD abnormality log reports office-wide.

Use table control to set the value of this parameter to OFF. This value disables office-wide generation of ISDN LAPD abnormality log reports.

Range information

The choices for the value of this parameter are ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is set to OFF, the system does not generate ISDN LAPD abnormality log reports office-wide. Now the user can activate these logs only through the use of the L3LOGCTRL command or manual entry in table L3ABNLOG.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate these ISDN LAPD abnormality log reports.

Verify that the L2LOGCTL command or a manual entry in table L2ABNLOG did not activate these ISDN LAPD abnormality log reports.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

LAPD_ABN_LOG (end)

Parameter history

NA008

This parameter was introduced in NA008.

LAPD16_ABN_LOG

Parameter name

Link Access Procedure on the D-channel for Service Access Point Identifier 16 Frames (LAPD16) Abnormalities Log

Functional description

This parameter allows or disables the generation of ISDN LAPD16 log reports for layer 2 protocol abnormalities.

When this parameter has an OFF value, the ISDN subsystem disables the generation of log reports for LAPD16 frames.

Note: Table L2ABNLOG stores the reporting status for layer 2 control log entries for individual ISDN lines. Datafill in table L2ABNLOG can override the office parameter datafill for log report generation. Use the L2LOGCTL command or table control to make entries in table L2ABNLOG.

Provisioning rules

The default value of this parameter is OFF. The OFF value disables office-wide generation of LAPD16 abnormality log reports.

Use table control to set the value of this parameter to ON. The ON value allows office-wide generation of LAPD16 abnormality log reports.

Range information

The values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, the ISDN subsystem can generate office-wide LAPD16 abnormality log reports. End users can control logs with

LAPD16_ABN_LOG (end)

the L2LOGCTL command or through a table editor in table L2ABNLOG or table ISDNVAR.

Verification

Set the value of this parameter to ON. Verify that the ISDN subsystem generates office-wide LAPD16 abnormality log reports.

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history

NA010

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

MAX_ASYNC_ISDN_DIAGS

Parameter name

Maximum Asynchronous ISDN Diagnostics

Functional description

The value of this parameter is the maximum number of asynchronous diagnostics that can run concurrently in the DMS office. The value given this office parameter depends on the hardware availability and use in the DMS office.

Note: The DIAG command with option NOWAIT issues asynchronous diagnostics on a posted ISDN line equipment number (LEN).

Provisioning rules

None

Range information

Minimum	Maximum	Default
0	10	5

Activation

Immediate

Dependencies

Not applicable

Consequences

Consequences for this parameter are

- If the value is zero, the use of option NOWAIT with the DIAG command is not valid.
- If the value is lower than expected, the user cannot request asynchronous diagnostics, even if test equipment hardware is available.
- If the value is higher than expected, test equipment hardware can be unavailable for other processes requiring test equipment.

MAX_ASYNC_ISDN_DIAGS (end)

Verification

Not applicable

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history

NA011

This office parameter was introduced.

PKT_ABN_LOG

Parameter name

X.25 Packet Abnormalities Log

Functional description

This parameter allows or disables the generation of ISDN abnormality log reports for X.25 packet data for related layer 3 protocol abnormalities.

When this parameter has an ON value, the ISDN subsystem can generate X.25 packet data log reports.

When this parameter has an OFF value, the ISDN subsystem disables the generation of X.25 packet data log reports.

Note: Table L3ABNLOG stores the reporting status for layer 3 control log reports for individual ISDN lines. Datafill in table L3ABNLOG overrides the office parameter datafill for log report generation. Use the L3LOGCTL command or table control to make entries in table L3ABNLOG.

Provisioning rules

The default value of this parameter is OFF. The OFF value disables office-wide generation of X.25 packet data abnormality log reports.

Range information

The values for this parameter are ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Not applicable

Consequences

When this parameter has an ON value, the ISDN subsystem can generate office-wide log reports for X.25 packet data. End users can control these logs with the L3LOGCTL command or through a table editor in table L3ABNLOG or ISDNVAR.

PKT_ABN_LOG (end)

Verification

Set the value of this parameter to ON. Verify that the ISDN subsystem generates office-wide X.25 packet data abnormality log reports.

Memory requirements

Not applicable

Dump and restore rules

Not applicable

Parameter history

NA010

This parameter was introduced by AF7446, L2/L3 PKT Abnormality Counts and Logs - CM.

Q931_ABN_LOG

Parameter name

Q.931 Protocol Abnormality Log

Functional description

This parameter allows or disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports. This parameter allows or disables these log reports office-wide.

If the extended peripheral processor unified processor (XPM UP) detects a Layer 3 Protocol Abnormality specified in technical requirement TR821, the system generates ISDN301 log reports.

If this parameter is set to ON, the system generates ISDN301 Layer 3 Protocol Abnormality log reports office-wide.

If this parameter is set to OFF, the system disables the generation of ISDN301 Layer 3 Protocol Abnormality log reports office-wide.

Note: Use the L3LOGCTL command or table control to make entries in table L3ABNLOG. These entries will override the parameter instructions for office-wide log generation.

Rules in provisioning

Use table control to set the value of this parameter to ON. This value allows the system to generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide.

The default value of this parameter is OFF. The default prevents the office-wide generation of these ISDN301 Layer 3 Protocol Abnormality log reports.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Q931_ABN_LOG (end)

Dependencies

Does not apply

Consequences

If this parameter is set to OFF, the system does not generate ISDN301 Layer 3 Protocol Abnormality log reports office-wide. Now the user can activate these logs only through the use of the L3LOGCTRL command or data entry in tables L3ABNLOG.

Verification

Set the value of this parameter to OFF. Verify that the system does not generate any ISDN301 Layer 3 Protocol Abnormality log reports.

Verify that the system did not activate Q.931 protocol abnormality logs through the L3LOGCTL command or manual entry in table L3ABNLOG.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history

NA008

This parameter was introduced in NA008.

RND_BRI_OFFICE

Parameter name

Redirecting Number Delivery (RND) Basic Rate Interface (BRI) Office

Functional description

This parameter provides delivery of RND to an office. If set to ON, RND is available for BRI terminals in that office.

Provisioning rules

Use the CHA (change) command to update this parameter.

Range information

Minimum	Maximum	Default
OFF	ON	OFF

Activation

This parameter is available in NA012 and up software.

Requirements

does not apply

Results

does not apply

Testing

Set this parameter to ON to check. Set other delivery mechanisms, such as the RND line option or the Basic Business Group RNDBRI option, to NO. Also make sure that an availability mechanism is present. Call the target subscriber with redirecting to ensure that the number delivers to the redirecting subscriber.

Memory requirements

no effect

Dump and restore rules

does not apply

RND_BRI_OFFICE (end)

Parameter history

NA012

This parameter is new.

SDT_SUBSCRIPTION_LIMIT_EXCD

Parameter name

Service Disruption Threshold Subscription Limit Exceeded

Functional description

This parameter controls the generation of ISDN 305 Layer 2 Protocol Abnormality log reports for the office. This parameter allows or disables the generation of the ISDN 305 log. The ISDN subsystem generates the ISDN 305 log to report when a line equipment number (LEN) exceeds the Service Disruption Threshold. Office parameter LAYER2_SERVICE_DSRPT_THLD in table OFCVAR sets the value for the Service Disruption Threshold.

The operating company can set this parameter to ON. This condition allows the system to generate ISDN 305 Layer 2 Protocol Abnormality log reports office-wide.

The operating company can set this parameter to OFF. This condition allows the system to prevent the generation of ISDN 305 Layer 2 Protocol Abnormality log reports office-wide.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG. These entries control the ISDN Layer 2 abnormality logs for each line. Parameter SDT_SUBSCRIPTION_LIMIT_EXCD and line parameter SDT in table L2ABNLOG must be ON for ISDN 305 log generation to occur. Turn on parameter SDT and the override bit in table L2ABNLOG to override this provision. If parameter SDT_SUBSCRIPTION_LIMIT_EXCD and line parameter SDT in table L2ABNLOG are OFF, then no ISDN 305 log generation occurs. Turn off the override bit and parameter SDT in table L2ABNLOG to disable ISDN 305 log generation for each line if SDT_SUBSCRIPTION_LIMIT_EXCD is ON for the office.

Provisioning rules

Set this parameter to ON to generate ISDN 305 Layer 2 Protocol Abnormality log reports that display: Service Disruption Exceeded. The system then allows generation of the ISDN 305 log report office-wide.

Set this parameter to OFF if you do not need to generate ISDN 305 Layer 2 Protocol Abnormality log reports that display: Service Disruption Exceeded. The system disables generation of this report office-wide.

SDT_SUBSCRIPTION_LIMIT_EXCD (continued)

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

Dependencies

Does not apply

Consequences

The operating company can set this parameter to OFF. When this parameter is OFF, the ISDN subsystem disables generation of ISDN 305 Layer 2 Protocol Abnormality log reports office-wide. Set this parameter to ON to allow generation of ISDN 305 log reports for the office. The system only generates these log reports when table L2ABNLOG contains the parameter SDT set to ON for the line. Use the L2LOGCTL command or data entry in table L2ABNLOG to set parameter SDT to ON. If parameter SDT_SUBSCRIPTION_LIMIT_EXCD is OFF, set both parameter SDT and the override bit in table L2ABNLOG to ON to generate ISDN 305 logs.

Verification

Set this parameter to OFF. Check that the system does not generate ISDN 305 log reports where the service disruption threshold field displays: Service Disruption Exceeded.

Make sure no one has used the L2LOGCTL command or a manual entry in table L2ABNLOG to activate ISDN 305 log reports. Perform this check for ISDN 305 Layer 2 Protocol Abnormality log reports where the field for service disruption threshold shows: Service Disruption Exceeded.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

SDT_SUBSCRIPTION_LIMIT_EXCD (end)

Parameter history

NA011

This parameter was introduced in NA011.

TEI_IDENTITY_VERIFY_MSG

Parameter name

Terminal Endpoint Identifier Identity Verify Message

Functional description

This parameter allows or disables the generation of ISDN121 Layer 2 Protocol Abnormality log reports. In these reports, the Identity Verify Message field displays Identity Verify Message. This parameter allows or disables these log reports office-wide.

The system generates the ISDN121 log reports to indicate that a terminal initiated an identity verify message with a TEI of 127.

Set this parameter to ON. The system generates, office-wide, ISDN121 Layer 2 Protocol Abnormality log reports where the Identity Verify Message field displays Identity Verify Message.

Set this parameter to OFF. The system cannot generate, office-wide, these ISDN121 Layer 2 Protocol Abnormality log reports.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG. These entries will override the parameter instructions for office-wide log generation.

Rules in provisioning

Use table control to set the value of this parameter to ON. This value allows the system to generate these ISDN121 Layer 2 Protocol Abnormality log reports.

The default value of this parameter is OFF. The default prevents the office-wide generation of these ISDN121 Layer 2 Protocol Abnormality log reports.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

TEI_IDENTITY_VERIFY_MSG (end)

Dependencies

Does not apply

Consequences

Set this parameter to OFF. This value disables office-wide generation of these ISDN121 Layer 2 Protocol Abnormality log reports. Now the user can activate the log reports only through the use of the L2LOGCTRL command or data entry in table L2ABNLOG.

Verification

Set this parameter to OFF. Verify that the system does not generate these ISDN121 Layer 2 Protocol Abnormality log reports.

Verify that the system has not activated ISDN121 Layer 2 Protocol Abnormality log reports through the L2LOGCTL command or a manual entry in table L2ABNLOG.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

TEI_MULTIPLE_RESPONSE

Parameter name

Terminal Endpoint Identifier Multiple Response

Functional description

This parameter allows or disables the generation of ISDN102 Layer 2 Protocol Abnormality log reports. In these reports, the TEI Removed field displays TEI removed. This parameter allows or disables these log reports office-wide.

The Integrated Services Digital Network (ISDN) subsystem generates ISDN102 log reports. These ISDN102 log reports:

- report detection of a duplicate terminal endpoint identifier (TEI) on the same loop
- indicate that a D-channel handler (DCH), enhanced DCH (EDCH), ISDN line drawer for remotes (ILDR), or V5 interface (V5I) removed the line from service.

When this parameter is set to ON the system generates these ISDN102 Layer 2 Protocol Abnormality log reports office-wide.

When this parameter is set to OFF the system disables the generation of ISDN102 Layer 2 Protocol Abnormality log reports office-wide.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG. These entries will override the parameter instructions for office-wide log generation.

Rules in provisioning

The default value of this parameter is ON. The default allows the system to generate these ISDN102 Layer 2 Protocol Abnormality log reports office-wide.

Use table control to set the value of this parameter to OFF. This value prevents the office-wide generation of these ISDN102 Layer 2 Protocol Abnormality log reports.

TEI_MULTIPLE_RESPONSE (end)

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

Dependencies

Does not apply

Consequences

Set this parameter to OFF. The system cannot generate these ISDN102 Layer 2 Protocol Abnormality log reports office-wide. Now the user can activate these logs only through the use of the L2LOGCTRL command or data entry in table L2ABNLOG.

Verification

Set this parameter to OFF. Verify that the system does not generate these ISDN102 Layer 2 Protocol Abnormality log reports.

Verify that the system did not activate these ISDN102 Layer 2 Protocol Abnormality log reports through the L2LOGCTL command or a manual entry in table L2ABNLOG.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA0008.

TEI_NO_RESPONSE

Parameter name

Terminal Endpoint Identifier No Response

Functional description

This parameter allows or disables the generation of ISDN100 Layer 2 Protocol Abnormality log reports. In these reports, the Terminal Unavailable field displays Terminal Unavailable. This parameter allows or disables these log reports office-wide.

The system generates ISDN100 log reports to indicate that there are no terminals available for message traffic.

If this parameter is set to ON the system allows the generation of these ISDN100 Layer 2 Protocol Abnormality log reports office-wide.

If this parameter is set to OFF the system disables the generation of these ISDN100 Layer 2 Protocol Abnormality log reports office-wide.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG. These entries will override the parameter instructions for log generation.

Rules in provisioning

The default value of this parameter is ON. The default value allows the system to generate these ISDN100 Layer 2 Protocol Abnormality log reports office-wide.

Use table control to set the value of this parameter to OFF. This value prevents the generation of these ISDN100 Layer 2 Protocol Abnormality log reports office-wide.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

Activation

Immediate

TEI_NO_RESPONSE (end)

Dependencies

Does not apply

Consequences

If this parameter is set to OFF, the system does not generate these ISDN100 Layer 2 Protocol Abnormality log reports office-wide. Now the user can activate these logs only through the use of the L2LOGCTROL command or data entry in table L2ABNLOG.

Verification

Set this parameter to OFF. Verify that the system does not generate these ISDN100 Layer 2 Protocol Abnormality log reports.

Verify that the system did not activate these ISDN100 Layer 2 Protocol Abnormality log reports through the L2LOGCTL command or a manual entry in table L2ABNLOG.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

TEI_NOT_ASSIGNED

Parameter name

Terminal Endpoint Identifier Not Assigned

Functional description

This parameter allows or disables the generation of ISDN116 Layer 2 Protocol Abnormality log reports. In these reports, the TEI not assigned field displays TEI not assigned. This parameter allows or disables these log reports office-wide.

The Integrated Services Digital Network (ISDN) subsystem generates the ISDN116 log reports. The ISDN116 log reports indicate the following:

- a duplicate terminal endpoint identifier (TEI) is on the loop
- a D-channel handler (DCH) or an enhanced DCH (EDCH), an ISDN line drawer for remotes (ILDR), or a V5 interface (V5I) removed the line from service

When this parameter is set to ON the ISDN subsystem generates these ISDN116 Layer 2 Protocol Abnormality log reports office-wide.

When this parameter is set to OFF the system disables the generation of ISDN116 Layer 2 Protocol Abnormality log reports office-wide.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG. These entries will override the parameter instructions for office-wide log generation.

Rules in provisioning

Use table control to set the value of this parameter to ON. This value allows the system to generate ISDN116 Layer 2 Protocol Abnormality log reports office-wide.

The default value of this parameter is OFF. The default prevents office-wide generation of these ISDN116 Layer 2 Protocol Abnormality log reports.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		OFF

TEI_NOT_ASSIGNED (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

If this parameter is set to OFF the system cannot generate these ISDN116 Layer 2 Protocol Abnormality log reports office-wide. Now the user can activate these logs only through the use of the L2LOGCTRL command or data entry in tables L2ABNLOG.

Verification

Set this parameter to OFF. Verify that the system does not generate these ISDN116 Layer 2 Protocol Abnormality log reports.

Verify that the system did not activate these ISDN116 log reports through the L2LOGCTL command or a manual entry in table L2ABNLOG.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

TEI_ROUTINE_TEST

Parameter name

Terminal Endpoint Identifier Routine Test

Functional description

This parameter makes able or disables the generation of ISDN120 Layer 2 Protocol Abnormality log reports. This parameter makes able or disables this log report where Routine Test field displays: Routine Test. This parameter makes able or disables these log reports office-wide.

The system generates ISDN120 log reports to report when a routine test occurs.

The user can set this parameter to ON. When this condition occurs, the system makes able the generation of ISDN120 log reports office-wide.

The user can set this parameter to OFF. When this condition occurs, the system disables the generation of ISDN120 log reports office-wide.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG that cancel the parameter instructions for log generation. These changes occur office-wide.

Rules in provisioning

To generate these ISDN120 Layer 2 Protocol Abnormality log reports, office-wide, set the value of this parameter to ON. Use table control to set the value of this parameter.

When you do not want to generate these ISDN120 Layer 2 Protocol Abnormality log reports, office-wide, leave this parameter OFF. The OFF value is the default value.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		OFF

Activation

Immediate

TEI_ROUTINE_TEST (end)

Dependencies

Does not apply

Consequences

The user can set this parameter to OFF. When this condition occurs, the system does not generate ISDN120 Layer 2 Protocol Abnormality log reports, office-wide. The system only generates the log reports when the log reports are activated. Use the L2LOGCTRL command or data entry in table L2ABNLOG to activate the log reports.

Verification

Set this parameter to OFF. Verify that the system does not generate any ISDN120 Layer 2 Protocol Abnormality log reports when the Routine Test field displays: Routine Test.

Verify that these ISDN120 Layer 2 Protocol Abnormality log reports are not activated through the L2LOGCTL command or a manual entry in table L2ABNLOG. This check applies to ISDN120 Layer 2 Protocol Abnormality log reports where the Routine Test field displays: Routine Test.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

TEI_SUBSCRIPTION_LIMITS_EXCD

Parameter name

Terminal Endpoint Identifier Subscription Limits Exceeded

Functional description

This parameter makes able or disables the generation of ISDN115 Layer 2 Protocol Abnormality log reports. This parameter makes able or disables the generation of this log where the Subscription limits exceeded field displays: Subscription limits exceeded. This parameter makes able or disables these log reports office-wide.

The system generates ISDN115 logs to report when terminal endpoint identifier (TEI) limits have been exceeded.

The user can set this parameter to ON. When this condition occurs, the system makes able the generation of ISDN115 Layer 2 Protocol Abnormality log reports. The system allows the generation of ISDN115 log reports office-wide.

The user can set this parameter to OFF. When this condition occurs, the system disables the generation of ISDN115 Layer 2 Protocol Abnormality log reports. The system disables the generation of ISDN115 log reports office-wide.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG that cancel the parameter instructions for log generation.

Rules in provisioning

Set this parameter to ON if you want to generate ISDN115 Layer 2 Protocol Abnormality log reports displaying: Subscription limits exceeded. The system allows the generation of this report office-wide.

Leave this parameter OFF if you do not want to generate ISDN115 Layer 2 Protocol Abnormality log reports displaying: Subscription limits exceeded. The system disables the generation of this report office-wide.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		ON

TEI_SUBSCRIPTION_LIMITS_EXCD (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

The user can set this parameter to OFF. When this condition occurs, the system does not generate ISDN115 Layer 2 Protocol Abnormality log reports office-wide. The system only generates the log reports when the log reports are activated. Use the L2LOGCTL command or data entry in table L2ABNLOG to activate the log reports.

Verification

Set this parameter to OFF. Verify that the system does not generate any ISDN115 Layer 2 Protocol Abnormality log reports where the Subscription limits exceeded field displays: Subscription limits exceeded.

Verify that these ISDN115 Layer 2 Protocol Abnormality log reports are not activated through through the L2LOGCTL command or a manual entry in table L2ABNLOG. Perform this check for ISDN115 Layer 2 Protocol Abnormality log reports where the Subscription limits exceeded field displays: Subscription limits exceeded.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

TEI_UNSOLICITED_RESPONSE

Parameter name

Terminal Endpoint Identifier Unsolicited Response

Functional description

This parameter makes able or disables the generation of ISDN122 Layer 2 Protocol Abnormality log reports where the Unsolicited Response field displays: Unsolicited Response. This parameter makes able or disables these log reports office-wide.

A terminal can send a frame that is not expected to the switching system for the current link access procedure on the D-channel (LAPD) state. When this condition occurs, the system generates ISDN122 log reports.

The user can set this parameter to ON. When this condition occurs, the system makes able the generation of ISDN122 Layer 2 Protocol Abnormality log reports office-wide.

The user can set this parameter to OFF. When this condition occurs, the system disables the generation of ISDN122 Layer 2 Protocol Abnormality log reports on an office-wide basis.

Note: Use the L2LOGCTL command or table control to make entries in table L2ABNLOG that cancel the parameter instructions for log generation. These changes occur office-wide.

Rules in provisioning

To generate ISDN122 Layer 2 Protocol Abnormality log reports office-wide, use table control to set the value of this parameter to ON.

When you do not want to generate ISDN122 Layer 2 Protocol Abnormality log reports office-wide, leave this parameter value on OFF. The OFF value is the default value.

Range information

The choice of values for this parameter is ON or OFF.

Minimum	Maximum	Default
		OFF

TEI_UNSOLICITED_RESPONSE (end)

Activation

Immediate

Dependencies

Does not apply

Consequences

The user can set this parameter to OFF. When this condition occurs, the system does not generate ISDN122 Layer 2 Protocol Abnormality log reports on an office-wide basis. The system only generates the log reports when the log reports are activated. Use the L2LOGCTRL command or data entry in tables L2ABNLOG to activate the log reports..

Verification

Set this parameter to OFF. Verify that the system does not generate any ISDN122 Layer 2 Protocol Abnormality log reports where the Unsolicited Response field displays: Unsolicited Response.

Verify that these ISDN122 Layer 2 Protocol Abnormality log reports are not activated through the L2LOGCTL command or a manual entry in table L2ABNLOG.

Memory requirements

This parameter does not impact memory.

Dump and restore rules

Does not apply

Parameter history**NA008**

This parameter was introduced in NA008.

TMEAS

Parameter name

Time Measurement Interval (TMEAS)

Functional description

The TMEAS parameter dictates the measurement interval used to monitor D-channel traffic for the BRI Rapid Messaging Provisioning feature.

Provisioning rules

The table control CHA command is the only valid command for this tuple.

Range information

Increase or decrease the TMEAS parameter in increments of 30. A value of zero deactivates the message counting.

Minimum	Maximum	Default
0	900	0

When operating company personnel activate rapid messaging (RM), Nortel recommends operating company personnel set the TMEAS office parameter in table ISDNVAR to 90.

Activation

To activate RM counting, assign a value other than zero. To deactivate message counting, set the TMEAS parameter to zero.

Dependencies

Not applicable

Consequences

The TMEAS parameter dictates how often RM determinations are made. If the D-channel traffic has high burst rates, setting the TMEAS parameter to a small value can cause terminals to be identified as in an RM state more often than if the value is larger. Setting the TMEAS parameter to a larger value increases the amount of time a temporary RM out-of-service terminal must wait until it returns to service.

If the TMEAS limit is set to 120 or greater, RM will not place a terminal in a permanent out-of-service state due to mathematical limitations.

Verification

Use the POS command on the TMEAS tuple to verify the parameter is set to non-zero. The subscriber can verify this parameter is working only if the terminal goes into an RM state.

Memory requirements

TMEAS has minimal impact on memory.

Dump and restore rules

A reformat procedure is not necessary.

Parameter history**NA010**

The TMEAS parameter was introduced in NA010.

DMS-100 Family

North American DMS-100

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