

Switched 64 Clear Channel Call-Through Functional Tests

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1. General

**1.1
Purpose**

This practice defines the test calls made for testing Switched 64 Clear Channel (Sw64) when the service is ordered from an interexchange carrier (IXC) and the new trunks groups are required to provide the service.

**1.2
Filing
instructions
and
Supersedures**

File this practice in numerical order in your GTE Telephone Operations practices set.

This practice supersedes and cancels:

- All policies, procedures, general instructions, letters, and memoranda which address this subject.
- Any document which provides information contrary to the information contained in this practice.

1. General, continued

- 1.3 Responsibility** This practice was published by the GTE Telephone Operations Administrative Services Department. For more information about this practice, contact the GTE Telephone Operations Headquarters Preventive Maintenance and Testing Department.
- 1.4 Disclaimer** This practice was prepared solely for the use of GTE Telephone Operations. It must be used only by its employees, customers, and end users when installing, operating, maintaining, and repairing GTE Telephone Operations' equipment, facilities, and services. Any other use of this practice is forbidden. The information contained in this practice may not be applicable in all circumstances and is subject to change without notice. By using this practice the user agrees that GTE Telephone Operations will have no liability (to the extent permitted by applicable law) for any consequential, incidental, special, or punitive damages that may result.

2. Overview

- 2.1 Introduction** Functional call through tests are performed when a Sw64 service order is received. The tests ensure that proper database translations are present in the offices that the Sw64 traffic traverses.
- End-to-end testing ensures that the proper elements for all aspects to deliver Sw64 data communications are in place and functional. Functional call-through checks provide:
- A clear channel capability (B8ZS) for the used trunk groups.
 - Proper translations {recent changes} for correct routing of the data calls.
- 2.2 Definitions** The following chart provides definitions for the acronyms and terms used in this practice.

Acronym or Term	Definition
AGCS	AG Communication System
ASR	Access Service Request
B8ZS	Bi-polar eight bit Zero Substitution
BERT	Bit Error Rate Test
BRI	Basic Rate Interface-Two 64 kbps B channels and one 16 kbps D channel.
CO	Central Office
CT-100	Tektronic Cratex Test Equipment
CPE	Customer Premises Equipment

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12 Overview, continued

2.2 Definitions, continued

Acronym or Term	Definition
DBM	Data Base Management
FGD	Feature Group "D"
ISDN	Integrated Services Digital Network
IXC	Interexchange Carrier
k	kilo – 1,000.
kbps	Kilobits per second – 1,000 bps.
O	Originates Call
OLS	On-Line Support
POP	Point of Presence
PRI	Primary Rate Interface-23 64 kbps B channels and on 64 kbps D channel.
Sw56	Switched 56 kbps – Circuit Switched Data.
Sw64	Switched 64 kbps Clear Channel
T	Terminates Call
TelePartner	Data unit equivalent in the AGCS switches.
Telepath	Data unit equivalent in the Northern Telecom switches.

3. Tests and Bearer Services Checked

3.1 Test Cases Five types of calls can be made and tested in each direction between the CO and the IXC, checking various ISDN and non-ISDN configurations with different bearer services, totaling 13 test cases. This total includes three test calls to international gateways if the international calls are requested by the IXC. Not all switch types can provide every configuration and the number of test call may be fewer.

3.2 Bearer Services Test calls verify the functionality of the ordered service. Sw64 calls can have several bearer services or the type of data to be transmitted. Choices available for testing within GTE include:

- Sw64 rate adapted (to 56k) data calls.
- Sw64 unrestricted data call.
- SW~~56~~6k data call.

NOTE: In addition, voice calls are also shown in the test cases to verify continued proper routing of ISDN speech calls across non-data FG D trunks.

3.3 Limitations Every possible combination of bearer services or those services that do not verify the functionality of Sw64 calls are not performed. The successful completion of the tests outlined provides reasonable assurance that the subscriber service will perform as expected. Reasons for not conducting every test include:

- Limited application or the prohibitively high cost of the test equipment.
- Older protocols that are currently unsupported by the test equipment.
- Minimal demand for some bearer services.

NOTE: Sw64 restricted data calls and receipt or generation of ISDN messages are not tested.

3.4 Network Configuration Considerations The following network configurations exist for Sw64 functional call through testing:

- New trunking that is directly between the end office and the IXC POP
- New trunking between GTE's access tandem and the POP

End-to-end testing:

- Requires that calls be made through the access tandem to an end office.
- From the IXC, through an access tandem, to the end office requires that:
 - All segments of the transmission path meet B8ZS specifications.
 - Database translations are complete for each office, and not for new trunking ordered between the IXC and the tandem, as stipulated on the ASR.

4. Prerequisites

4.1 Requirements Prior to Any Testing

The following prerequisites must precede any functional call through testing:

- ISDN test telephones.
- Data unit.
- Database translations.
- Properly provisioned and tested facilities for the new trunk group.
- Contact list.
- Test equipment.
- CO Technician base knowledge.

4.1.1 ISDN Test Telephones

A working ISDN test telephone located within the CO, previously assigned an ISDN line appearance. This requirement applies to only the switches capable and provisioned for ISDN service. Most of the locations have two ISDN test telephones. The ISDN test telephones must be verified by the CO technician for both incoming and outgoing calls before conducting the Sw64 testing to ensure that intraoffice ISDN calls can be made.

4.1.2 Data Unit

Telepath for the DMS switches and Telepartner for the GTD-5 switches, working in the CO with an associated CPE data device (personal computer).

4.1.3 Database Translations

The test plan originator must ensure that the B8ZS trunk groups are used for the entire datapath (from the IXC through the access tandem to the end office) when generating test call translations.

NOTE: Completed database translations (recent changes) for Switched Data/ISDN for the affected switches.

4.1.4 Properly Provisioned and Tested Facilities for the New Trunk Group

Dedicated Sw64 trunk group addition(s) and facilities installed, meeting B8ZS standards, must be fully tested. For the IXC to access tandem trunk group additions, where the intended Sw64 subscriber originates from an end office without direct trunking to the IXC, the trunking between the end office and the access tandem must be configured (both hardware and software) B8ZS capable.

4. Prerequisites, continued

4.1 Requirements Prior to Any Testing, continued

4.1.5 Contact List

Departmental contact names and numbers are required for the:

- DBM test plan originator.
- IXC test technician.
- SS7 technical support and analysis.
- OLS for the switch type(s) being tested.

The preceding list must be assembled for quick reference by the CO technician with each of the telephone contacts. The DBM and IXC contact numbers are shown on the ASR and are conveyed to the CO with the test call plan. DBM must also provide any test telephone numbers pertinent to the testing process if they are known.

4.1.6 Test Equipment

The following test equipment is required:

- ISDN test telephones and associated telephone numbers (5ESS and DMS switches).
- Tektronix Craffek CT-100 with the appropriate version load or a Telepath 550.
- Telepartner and associated telephone numbers (**GTD-5** switches).
- Datapath and associated telephone number (DMS switches).
- Navtel bit error rate tester (GTD-5 switches).

4.1.7 CO Technician Base Knowledge

The CO technician should be familiar with:

- How to check and reconfigure the trunk groups that carry the test call messages.
- Tektronix Craffek CT-100 functions and its programming (or an equivalent test set, such as the Telepath 550).
- Programming the CO SDN telephone to each of the bearer services (if applicable to their switch type).

5. Tandem Level Orders

5.1 Tandem Level Orders

Test cases are formulated for a nonmechanized testing environment and require cooperative acceptance testing. Tandem level orders from the IXC (new trunk orders requesting translations to several end offices behind the tandem) should perform the test cases to only one end office. The designated end office should be defined in the ASR request. Automatic, or tests requiring no person present at the IXC end can be made from any other office to verify call through to the IXC.

6. Testing Coordination

6.1 Test Numbers

Test numbers provided to DBA through the ASR process allow for few if any calls being made without manual intervention at the far end. The test cases provide for both originating and terminating checks. Ideally, the IXC provides a separate number (originating from the CO) for:

- Each of the bearer services.
- Translation checking over the nondata FGD trunk (see Test Case 8).

NOTE: Most of the test calls into the CO (terminating) necessitates realtime on-line coordination. This requires person-to-person contact between the IXC technician and the CO technician.

After receiving the test plan the CO technician contacts the IXC to establish and agree on a:

- Test date for cooperative acceptance testing.
- Specific test time for the service order.

NOTE: Unmanned offices require that specific times be established to conduct testing.

At initial contact with the IXC:

- Verify that the test plan test numbers are correct or exchange test numbers with the IXC technician if not shown and complete the test plan.
- Provide the IXC with a copy of the planned test cases.
- Note any discrepancies and make changes as required.

NOTE: Administer the following test cases for the switch type providing the service on the agreed test date.

7. Test Cases

7.1 Test Case Summary Table

The following table of Switched 64 test calls summarizes the test calls that verify functional call through.

Bearer Service	64k Adapted to 56k		64k Unrestricted		64k		56k		56k		
	Data		Data		Speech		Data		Data		
Path	ISDN to ISDN		ISDN to ISDN		ISDN to ISDN		Non-ISDN to ISDN		Non-ISDN to Non-ISDN		
	Test Case	GTE	IXC	GTE	IXC	GTE	IXC	GTE	IXC	GTE	IXC
1	T	0									
2	0	T									
3	0	T									
4			T	0							
5			0	T							
6			0	T							
7					T	0					
8					0	T					
9							T	0			
10							0	T			
11									T	0	
12									0	T	
13									0	T	

Table 1 - Sw64 Test Call Summary

7.2 Switched 64 Rate Adapted (to 56k) Data Calls

The following are Switched 64 Rate Adapted (to 56k) Data Calls test cases:

- Test Case 1 – IXC Originated ISDN PRI Sw64 Rate Adapted (to 56k) Data Call Over Sw64 CC Trunk Group to the CO ISDN BRI
- Test Case Z-CO Originated BRI Sw64 Rate Adapted (to 56k) Data Call to the IXC ISDN.
- Test Case 3-CO Originated Sw64 BRI Rate Adapted (to 56k) Data Call to the International Gateway.

7. Test Cases, continued

7.2 Switched 64 Rate Adapted (to 56k) Data Calls, continued

7.2.1 Test Case 1 -IXC Oriainated ISDN Pri Sw64 Rate Adapted (to 56k) Data Call Over Sw64 CC Trunk Group to the CO ISDN BRI

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw64 rate adapted (to 56k) data call.
2	The IXC dials into the CO test ISDN data line.
3	The CO technician verifies via the CT-100 call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician: <ul style="list-style-type: none">• Requests that the IXC terminate the call.• Verifies the status via CT-100.

7. Test Cases continued

7.2 Switched 64 Rate Adapted (to 56k) Data Calls, continued

7.2.2 Test Case 2-CO Originated BRI Sw64 Rate Adapted (to 56k) Data Call to the IXC ISDN

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw64 rate adapted (to 56k) data call (see Test Case 1, Step 1).
2	The CO technician dials into the IXC ISDN data line using the number specified on the test plan.
3	The CO technician verifies via the CT-100 call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	Requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

7. Test Cases continued

7.2 Switched 64 Rate Adapted (to 56k) Data Calls, continued

7.2.3 Test Case 3-CO Originated Sw64 BRI Rate Adapted (to 56k) Data Call to the International Gateway.

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw64 rate adapted (to 56k) data call (see Test Case 1, Step 1).
2	The CO technician dials into the IXC ISDN data line using the number for the international gateway specified on the test plan.
3	The CO technician verifies via the CT-100 call connection.
4	End-to-end BERT is established and held for two minutes <ul style="list-style-type: none">• Verify synchronization,• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

NOTE: Administer Test Case 3 only if requested by the IXC and the international number is specified on the test plan.

7. Test Cases continued

7.3 Switched 64 Unrestricted Data Calls

The following are Unrestricted Data Calls test cases:

- Test Case 4 – IXC Originated Sw64 Unrestricted Data Call to the CO ISDN.
- Test Case 5 – CO Originated Sw64 BRI Unrestricted Data Call to the IXC ISDN.
- Test Case 6 – CO Originated Sw64 BRI Unrestricted Data Call to the International Gateway.

7.3.1 Test Case 4 – IXC Originated Sw64 Unrestricted Data Call to the CO ISDN

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw64 unrestricted data call.
2	The IXC dials into the CO test ISDN data line.
3	The CO technician verifies via the CT-100 call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

7. Test Cases, continued

7.3 Switched 64 Unrestricted Data Calls, continued

7.3.2 Test Case 5-CO Oriained Sw64 BRI Unrestricted Data Call to the IXC ISDN

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw64 unrestricted data call (see Test Case 4).
2	The CO technician dials into the IXC ISDN data line using the number specified on the test plan.
3	The CO technician verifies via the CT-100 call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

7. Test Cases, continued

7.3 Switched 64 Unrestricted Data Calls, continued

7.3.3 Test Case 6 -CO Originated Sw64 BRI Unrestricted Data Call to the International Gateway

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw64 unrestricted data call (see Test Case 4).
2	The CO technician dials into the IXC ISDN data line using the number for the international gateway specified on the test plan.
3	The CO technician verifies via the CT-100 call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

NOTE: Administer Test Case 6 only if requested by the IXC and the international number is specified on the test plan.

7. Test Cases, continued

7.4 Switched 64 Speech Calls

The following are Switched 64 Speech Calls test cases:

- Test Case 7 – IXC Originated ISDN Speech Call to the CO ISDN via the nondata FGD trunk group.
- Test Case 8 -CO Originated ISDN Speech Call to the IXCISDN.

L.4.1 Test Case 7-IXC Originated ISDN Speech Call to the CO ISDN via the nondata FGD Trunk Group

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw64 speech call (or the CO ISDN test telephone can be used).
2	The IXC dials into the CO test ISDN voice line.
3	The CO technician verifies the call connection.
4	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
5	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the status.

7. Test Cases, continued

7.4 Switched 64 Speech Calls, continued

7.4.2 Test Case 8-CO Oriinated ISDN Speech Call to the IXC ISDN

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw64 speech call (see Test Case 7).
2	The CO technician dials into the IXC test ISDN voice line.
3	The CO technician verifies the call connection.
4	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
5	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

NOTE: The CT-100 can be used as a substitute for the ISDN test telephone for test cases 7 and 8 if the CT-1 00 is properly configured.

7. Test Cases, continued

7.5 Switched 56k Data Calls – Non-ISDN to ISDN

The following are Switched 56k Data Calls- Non-ISDN to ISDN test cases:

- Test Case 9 – IXC Originated Sw56k non-ISDN Data Unit Data Call to the CO ISDN.
- Test Case IO- CO Originated Sw56k non-ISDN Data Unit Data Call to the IXC ISDN.

7.5.1 Test Case 9-IXC Oriainated Sw56k Non-ISDN Data Unit Data Call to the CO ISDN

The following chart describes switch type applications 5ESS and DMS.

Step	Switch Type Application
1	The CO technician configures the CT-100 to a Sw56k data call.
2	The IXC dials into the CO test ISDN data line.
3	The CO technician verifies via the CT-100 the call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

7. Test Cases, continued

7.5 Switched 56k Data Calls – Non-ISDN to ISDN, continued

7.5.2 Test Case 10 -CO Originated Sw56k Non-ISDN Data Unit Data Call to the IXC ISDN

The following chart describes switch type applications GTD-5 and DMS.

Step	Switch Type Application
1	The CO technician configures the following to a Sw56k data call: <ul style="list-style-type: none">• Telepartner (GTD-5 switch). OR <ul style="list-style-type: none">• Datapath (DMS switch).
2	The CO dials the IXC ISDN data line.
3	The CO technician verifies the call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

7. Test Cases, continued

7.6 Switched 56k Data Calls — Non-ISDN to Non-ISDN

The following are Switched 56k Data Calls- Non-ISDN to Non-ISDN test cases:

- Test Case 11— IXC Originated Sw56k non-ISDN Data Unit Data Call to the CO non-ISDN data unit.
- Test Case 12— CO Originated Sw56k non-ISDN Data Unit Data call to the IXC non-ISDN data unit.
- Test Case 13 -CO Originated Sw56k non-ISDN Data Unit Data Call to the International Gateway.

7.6.1 Test Case 11 – IXC Oriainated Sw56k Non-ISDN Data Unit Data Call to the CO Non-ISDN Data Unit

The following chart describes switch type applications GTD-5 and DMS.

Step	Switch Type Application
1	The CO technician configures the following to a Sw56k data call: <ul style="list-style-type: none">• Telepartner (GTD-5 switch).OR• Datapath (DMS switch).
2	The CO technician dials the IXC international gateway number.
3	The CO technician verifies the call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

7. Test Cases, continued

7.6 Switched 56k Data Calls — Non-ISDN to Non-ISDN, continued

7.6.2 Test Case 12-CO Originated Sw56k Non-ISDN Data Unit Data Call to the IXC Non-ISDN Data Unit

The following chart describes switch type applications GTD-5 and DMS.

Step	Switch Type Application
1	The CO technician configures the following to a Sw56k data call: <ul style="list-style-type: none">• Telepartner (GTD-5 switch).OR• Datapath (DMS switch).
2	The CO technician dials the IXC data unit data line.
3	The CO technician verifies the call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.

7. Test Cases, continued

7.6 Switched 56k Data Calls – Non-ISDN to Non-ISDN, continued

7.6.3 Test Case 13 -CO Originated Sw56k Non-ISDN Data Unit Data Call to the International Gateway

The following chart describes switch type applications GTD-5 and DMS.

Step	Switch Type Application
1	The CO technician configures the following to a Sw56k data call: <ul style="list-style-type: none">• Telepartner (GTD-5 switch).OR• Datapath (DMS switch).
2	The CO technician dials the IXC international gateway number.
3	The CO technician verifies the call connection.
4	End-to-end BERT is established and held for two minutes. <ul style="list-style-type: none">• Verify synchronization.• Record any discrepancies.
5	Continuing the connection for a maximum of ten minutes allows the IXC to check: <ul style="list-style-type: none">• ISDN messaging.• Trunk routing.
6	The CO technician requests that the IXC: <ul style="list-style-type: none">• Terminate the call.• Verify the disconnect status via CT-100.
