

## APPENDIX E

### CONFIGURATIONS AND DETAILED TEST PROCEDURES

**E-2 DSN INTERFACES.** This section outlines the detailed test procedures for the interfaces, trunk and line, required for Defense Switched Network (DSN) switching systems. The objectives, criterion and data required are listed in appendix D-2.

**E-2.1 2-Wire Analog Line Interface.** Certification requirements for 2-wire analog comprise access, voice, facsimile and data. Tables E-2.1.1 through E-2.1.4 list the detailed procedures used to verify requirements. Objectives, criterion, and data required are contained in appendix D section 2.1.

**Table E-2.1.1. 2-wire Analog Line Interface Test Procedures for Access**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>DN Identification</b>		
	<b>Requirement:</b> MFS, EOS, SMEO, PBX1 & PBX2	<b>Reference:</b> GSCR Sect. 2.1.1	
	Configure the SUT to have two analog subscribers (ON1, ON2), and one subscriber on a destination switch (DN1). Configure the phone with a directory number (DN#).		
		1. Place an intra switch call from ON1 to ON2  2. Place an inter-switch call from ON1 to DN1  <b>Notes:</b>	1. Verify with call detail records or by tracing that the DN is auto identified. Y/N  2. Verify with call detail records or by tracing that the DN is auto identified. Y/N
B	<b>Line Signaling</b>		
	<b>Requirement:</b> MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 5.2	
		1. Verify that the SUT supports the following line signaling types: a. Loop start b. Ground start  <b>Notes:</b>	1. Switch supports: a. Loop start Y/N b. Ground start Y/N
C	<b>Alerting Signals and Tones</b>		
	<b>Requirement:</b> MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 5.5	
	Configure SUT with 2 subscribers (ON1 – ON2)		
		1. Place ROUTINE call from ON1 to ON2; don't answer. Hang up call. 2. Place IMMEDIATE call from ON1 to ON2; don't answer.  <b>Notes:</b>	1. ON2 ringing @ 10 IPM, 2 sec on 4 sec off. ON1 audible ringback tone @ 10 IPM, 2 sec on 4 sec off Y/N  2. ON2 ringing @ 30 IPM, 1640 msec on and 360 msec off. ON1 audible ringback tone @ 30 IPM, 1640 msec on and 360 msec off. Y/N

**Table E-2.1.1. 2-wire Analog Line Interface Test Procedures for Access (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
D	<p><b>WWNDP</b></p>	<p>1. Verify in that the switch under test supports 7 digit intra-switch dialing as well as 7 and 10 digit inter-switch dialing. Note: This can be validated in either translations or documentation</p>	<p>1. Switch supports 7 digit intra-switch dialing. Y/N Switch supports 7 and 10 digit inter-switch dialing. Y/N</p>		
	<table border="1"> <tr> <td data-bbox="163 289 520 345"><b>Requirement:</b> TS, MFS, EOS, SMEO, &amp; PBX1</td> <td data-bbox="520 289 772 345"><b>Reference:</b> GSCR Sect. 4.5</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 4.5		
	<b>Requirement:</b> TS, MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 4.5			
<p>Configure two analog instruments on the SUT (ON1-ON2) with FLASHOVERRIDE precedence Configure one analog instrument on the Destination Node (DN1) with 7 digit inter-switch dialing and DN2 with 10 digit inter-switch dialing Configure a T1 CAS trunk (if applicable; Note: all trunk types need to be tested) between the SUT and DN</p>	<p>2. INTRA-Switch Dialing:                      a. ON1 calls ON2 by dialing KXX-XXXX; then hang up call                      b. ON1 calls ON2 by dialing 93-KXX-XXXX; then hang up call                      c. Repeat step 2 b. for all precedence levels (i.e. 92, 91, 90)                      3. INTER-Switch Dialing: (7 digit)                      a. ON1 calls DN1 by dialing 94 KXX-XXXX; then hang up call                      b. ON1 calls DN1 by dialing 93 KXX-XXXX; then hang up call                      c. Repeat 3 b. for all precedence levels; then hang up each call                      d. *ON1 calls DN1 by dialing 94 (11) KXX-XXXX                      * This dialing scheme only required for SS7 and CAS trunks                      e. Repeat 3 d. for all precedence levels; then hang up each call                      4. INTER-Switch Dialing: (10 digit)                      a. ON1 calls DN2 by dialing 94 KXX-KXX-XXXX; then hang up call                      b. ON1 calls DN2 by dialing 93 KXX-KXX-XXXX; then hang up call                      c. Repeat 4 b. for all precedence levels; then hang up each call                      d. *ON1 calls DN2 by dialing 94 (11) KXX-KXX-XXXX                      * This dialing scheme only required for SS7 and CAS trunks                      e. Repeat 3 d. for all precedence levels; then hang up each call                      5. SUT supports DSN user dialing (N) (P or S) (1X) (KXX) KXX-XXXX where:                      N is any digit 2-9                      P is any digit 0-4                      S is any digit 5-9                      X is any digit 0-9                      K is any digit 2-8                      Notes:                      1. Digits shown in ( ) are not dialed by the DSN user on all calls                      2. The Access digit (N) plus the precedence or service digit constitutes the access code</p>	<p>2. INTRA-Switch Dialing                      a. ON1 to ON2 call completes @ ROUTINE Y/N                      b. ON1 to ON2 call completes @ PRIORITY Y/N                      c. ON1 to ON2 calls complete for all Prec Lvl's Y/N                      3. INTER-Switch Dialing (7 digit)                      a. ON1 to DN1 call completes at ROUTINE Y/N                      b. ON1 to DN1 call completes at PRIORITY Y/N                      c. ON1 to DN1 calls complete for all Prec Lvl's Y/N                      d. ON1 to DN1 call completes at ROUTINE Y/N                      e. ON1 to DN1 calls complete at all Prec Lvl's Y/N                      4. INTER-Switch Dialing (10 digit)                      a. ON1 to DN2 call completes at ROUTINE Y/N                      b. ON1 to DN2 call completes at PRIORITY Y/N                      c. ON1 to DN2 calls complete for all Prec Lvl's Y/N                      d. ON1 to DN2 call completes at ROUTINE Y/N                      e. ON1 to DN2 calls complete at all Prec Lvl's Y/N                      5. SUT supports DSN WWNDP user dialing. Y/N</p>			
	<p><b>Notes:</b></p>				

**Table E-2.1.1. 2-wire Analog Line Interface Test Procedures for Access (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
E	<b>Call Treatments</b>		<p><b>Originating Busy Treatment:</b></p> <ol style="list-style-type: none"> <li>1. The SUT determines the precedence level of the call after 9P but not later the last digit is dialed by user.</li> <li>2. Go off hook with ON1 and dial 9 (access digit) only.</li> <li>3. Place a PRIORITY call from ON2 to ON1. Place all instruments on hook.</li> <li>4. Go off hook with ON1 and dial 9 (access digit) only.</li> <li>5. Place a IMMEDIATE call from ON2 to ON1. Place all instruments on hook.</li> <li>6. Go off hook with ON1 and dial 9 (access digit) only and leave off hook.</li> <li>7. Place a FLASH call from ON2 to ON1. Place all instruments on hook.</li> <li>8. Go off hook with ON1 and dial 9 (access digit) only.</li> <li>9. Place a FLASH OVERRIDE call from ON2 to ON1. Place all instruments on hook.</li> <li>10. Go off hook with ON1 and dial 94 or number of digits to determine a ROUTINE precedence call.</li> <li>11. Place a PRIORITY call from ON2 to ON1. Place all instruments on hook.</li> <li>12. Go off hook with ON1 and dial 93 or number of digits to determine a ROUTINE precedence call.</li> <li>13. Place a IMMEDIATE call from ON2 to ON1. Place all instruments on hook.</li> <li>14. Go off hook with ON1 and dial 93 or number of digits to determine a ROUTINE precedence call.</li> <li>15. Place a PRIORITY call from ON2 to ON1. Place all instruments on hook.</li> </ol> <p><b>Notes:</b></p>	<p><b>Originating Busy Treatment:</b></p> <ol style="list-style-type: none"> <li>1. Precedence determined after _____ digits dialed</li> <li>2. ON1 off hook and in partial dial state. Y/N</li> <li>3. Call incomplete, deflects to the attendant, Alt DN or BPA. Y/N</li> <li>4. ON1 off hook and in partial dial state. Y/N</li> <li>5. Call incomplete, deflects to the attendant, Alt DN or BPA. Y/N</li> <li>6. ON1 off hook and in partial dial state Y/N</li> <li>7. Call incomplete and deflects to attendant, Alt DN or BPA. Y/N</li> <li>8. ON1 off hook and in partial dial state. Y/N</li> <li>9. Call incomplete, deflects to the attendant, Alt DN or BPA. Y/N</li> <li>10. ON1 off hook in partial or complete dial state. Y/N</li> <li>11. ON1 receives preempt notification tone (PNT) (note: if prec level is determined after last digit dialed the DN called by ON1 will also receive PNT ON2 to ON1 call completes. Y/N</li> <li>12. ON1 off hook in partial or complete dial state. Y/N</li> <li>13. ON1 receives PNT (note: if prec level is determined after last digit dialed the DN called by ON1 will also receive PNT ON2 to ON1 call completes. Y/N</li> <li>14. ON1 off hook in partial or complete dial state. Y/N</li> <li>15. ON2 receives a BPA Y/N</li> </ol>
	<p><b>Requirement:</b> All</p>	<p><b>Reference:</b> GSCR Sect. 4.1.1</p>		
	<p><b>Originating Busy Treatment:</b> Two analog instruments with automatic redial are required on the node under test. (ON1, ON2). Provision ON1 and ON2 for class of service as FLASH OVERRIDE.</p>			

**Table E-2.1.1. 2-wire Analog Line Interface Test Procedures for Access (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
E c o n t i n u e d	<b>Call Treatments (continued)</b>		<b>Busy/Idle Status Treatment:</b>	<b>Busy/Idle Status Treatment:</b>
	<b>Requirement:</b> All	<b>Reference:</b> GSCR Sect. 4.1	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON1 to DN1.</li> <li>2. Place a PRIORITY call from ON2 to DN2. Place ON1 and DN1 on hook.</li> <li>3. Place an IMMEDIATE call from ON1 to DN1. Place ON2 and DN2 on hook.</li> <li>4. Place a FLASH call from ON2 to DN2. Place ON1 and DN1 on hook.</li> <li>5. Place a FLASH OVERRIDE call from ON1 to DN1. Place all instruments on hook.</li> <li>6. Return all channels on the link under test to service.</li> <li>7. Place a ROUTINE call from ON1 to DN1.</li> <li>8. Place a PRIORITY call from ON2 to ON1. Place DN1 on hook.</li> <li>9. Place an IMMEDIATE call from ON3 to ON1. Place ON2 on hook.</li> <li>10. Place a FLASH call from ON2 to ON1. Place ON3 on hook.</li> <li>11. Place a FLASH OVERRIDE call from ON3 to ON1. Place all instruments on hook.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call completes. Y/N</li> <li>2. Call completes; preempts ROUTINE call. Y/N</li> <li>3. Call completes; preempts PRIORITY call. Y/N</li> <li>4. Call completes; preempts IMMEDIATE call. Y/N</li> <li>5. Call completes; preempts FLASH call. Y/N</li> <li>6. All channels idle. Y/N</li> <li>7. Call completes. Y/N</li> <li>8. Call completes; preempts ROUTINE call. Y/N</li> <li>9. Call completes; preempts PRIORITY call. Y/N</li> <li>10. Call completes; preempts IMMEDIATE call. Y/N</li> <li>11. Call completes; preempts FLASH call. Y/N</li> </ol>
	<b>Busy/Idle Status Treatment:</b> Three analog instruments are required on the Originating Node (ON) SUT, (ON1, ON2, ON3). Two analog instruments are required on the Destination Node (DN), (DN1, DN2). Place all except one channel on the link under test out of service. Place any alternate routes out of service. Use the Sage 375 or the GL communications Super T1/Super E1 to capture data on the dialed digits and MLPP timing signals for Analog and CAS links. Use the Tektronix 1297 to capture data on the SS7 and ISDN preemption messaging. Perform the following test sequence on each link under test.		<b>Notes:</b>	
F	<b>Class of service</b>		1. Verify that the switch can support a minimum of 256 classmarks.	1. Minimum 256 classmarks. Y/N
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 4.1.6	2. Verify that switch can assign classmarks to station line, access line, number code, trunk or group of trunks.	2. Classmark assignment: Station line. Y/N Access line. Y/N Number code. Y/N Trunk. Y/N Group of trunks. Y/N
		<b>Notes:</b>		

**Table E-2.1.1. 2-wire Analog Line Interface Test Procedures for Access (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
G	<b>Screening</b>	<p><b>Zone Restriction Capacity:</b> 1. Print the switch report for Node under test.</p> <p>Screening: 1. Place a call from ON1 to ON2 @ ROUTINE: then hang up call 2. Place a call from ON1 to DN1 @ PRIORITY; then hang up call 3. Repeat step 2 for each office code to DN1; hang up after each call 4. Place a call from ON3 to DN1 @ ROUTINE by dialing office code allowed by Class of Service 5. Place a call from ON3 to DN1 @ ROUTINE by dialing office codes denied by Class of Service 6. Place a call from ON4 to DN1 @ ROUTINE by dialing area code allowed by Class of Service 7. Place a call from ON4 to DN1 @ ROUTINE by dialing area codes denied by Class of Service 8. Place a call from ON5 to DN1 @ ROUTINE by dialing area code/office code allowed by Class of Service 9. Place a call from ON5 to DN1 @ ROUTINE by dialing area code with office codes denied by Class of Service</p> <p><b>Notes:</b></p>	<p><b>Zone Restriction Capacity:</b> 1. Node report verifies switch capable of up to 15 zone restriction tables Y/N</p> <p>Screening: 1. ON1 to ON2 call completed @ ROUTINE Y/N 2. ON1 to DN1 call completed @ PRIORITY Y/N 3. ON1 to DN1 call completed for each office code dialed Y/N 4. ON3 to DN1 call completed @ ROUTINE Y/N 5. ON3 receives a VCA for other office codes dialed Y/N 6. ON4 to DN1 call completed @ ROUTINE Y/N 7. ON4 receives a VCA for other area codes dialed Y/N 8. ON5 to DN1 call completed @ ROUTINE Y/N 9. ON5 receives a VCA for other office codes denied. Y/N</p>
	<p><b>Requirement:</b> MFS, EOS, &amp; SMEO</p> <p><b>Reference:</b> GSCR Sect. 4.5.8</p>		
	<p><b>Zone Restriction Capacity:</b> Provision 15 zone restriction tables.</p> <p><b>Screening:</b> Five analog instruments are required on the Origination Node (ON) SUT (ON1, ON2, ON3, ON4, ON5). One analog instrument is required on the Destination Node (DN1) (Note: DN may be different switches in this test) <b>Office code screening (no restriction):</b> Configure Class of Service on ON2 for intra-switch and inter-switch dialing (all office codes) <b>Office code screening (restricted)</b> Configure Class of Service on ON3 for intra-switch dialing, and inter-switch dialing (only one office code allowed; all other office codes denied. <b>Area code screening (restricted)</b> Configure Class of Service on ON4 for intra-switch dialing, and inter-switch dialing (only area code allowed; all other area codes denied. <b>Area code/office code screening (restricted)</b> Configure Class of Service on ON5 for intra-switch dialing, and inter-switch dialing (only one office code allowed for a specified area code, all other office codes denied.</p>		

**Table E-2.1.2. 2-wire Analog Line Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)															
A	<b>MOS</b>	<p>1. Make 2 intraswitch calls from a 2W analog subscriber to each of the other supported line types. Record the MOS for each call.</p> <p><b>Notes:</b></p>	<p>1. MOS:</p> <table border="1"> <thead> <tr> <th>Call #</th> <th>2W</th> <th>BRI</th> <th>Digital</th> <th>VoIP</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Call #	2W	BRI	Digital	VoIP	1					2				
	Call #			2W	BRI	Digital	VoIP											
	1																	
2																		
<p><b>Requirement:</b> All</p> <p><b>Reference:</b> CJCSI 6215.01B</p>																		
<p>Configure SUT switch with 2 analog subscribers (ON1 and ON2). Provision one each of the other supported line types BRI, Digital , and VoIP .</p>																		

**Table E-2.1.2. 2-wire Analog Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																																						
B	<b>MLPP</b> <b>Precedence Levels and Invocation &amp; Operation</b>	1. Place a ROUTINE call from A1 to A2. Place PRIORITY call from A3 to A2. Hang up call. 2. Place PRIORITY call A1 to A2. Place IMMEDIATE call from A3 to A2. Hang up call. 3. Place IMMEDIATE call A1 to A2. Place FLASH call from A3 to A2. Hang up call. 4. Place FLASH call A1 to A2. Place FLASH OVERRIDE call from A3 to A2. Hang up call.  Repeat for other line types.  <b>Notes:</b>	1. MLPP <table border="1" data-bbox="1430 261 2001 613"> <thead> <tr> <th></th> <th>2W</th> <th>BRI</th> <th>Digital</th> <th>VoIP</th> </tr> </thead> <tbody> <tr> <td>1. call completes</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>call preempted</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>A1/A2 rec PNT</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>2. call completes</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>call preempted</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>A1/A2 rec PNT</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>3. call completes</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>call preempted</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>A1/A2 rec PNT</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>4. call completes</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>call preempted</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>A1/A2 rec PNT</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>5. A3 rec BPA</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> </tbody> </table>		2W	BRI	Digital	VoIP	1. call completes	Y/N	Y/N	Y/N	Y/N	call preempted	Y/N	Y/N	Y/N	Y/N	A1/A2 rec PNT	Y/N	Y/N	Y/N	Y/N	2. call completes	Y/N	Y/N	Y/N	Y/N	call preempted	Y/N	Y/N	Y/N	Y/N	A1/A2 rec PNT	Y/N	Y/N	Y/N	Y/N	3. call completes	Y/N	Y/N	Y/N	Y/N	call preempted	Y/N	Y/N	Y/N	Y/N	A1/A2 rec PNT	Y/N	Y/N	Y/N	Y/N	4. call completes	Y/N	Y/N	Y/N	Y/N	call preempted	Y/N	Y/N	Y/N	Y/N	A1/A2 rec PNT	Y/N	Y/N	Y/N	Y/N	5. A3 rec BPA	Y/N	Y/N	Y/N	Y/N
			2W	BRI	Digital	VoIP																																																																			
1. call completes	Y/N	Y/N	Y/N	Y/N																																																																					
call preempted	Y/N	Y/N	Y/N	Y/N																																																																					
A1/A2 rec PNT	Y/N	Y/N	Y/N	Y/N																																																																					
2. call completes	Y/N	Y/N	Y/N	Y/N																																																																					
call preempted	Y/N	Y/N	Y/N	Y/N																																																																					
A1/A2 rec PNT	Y/N	Y/N	Y/N	Y/N																																																																					
3. call completes	Y/N	Y/N	Y/N	Y/N																																																																					
call preempted	Y/N	Y/N	Y/N	Y/N																																																																					
A1/A2 rec PNT	Y/N	Y/N	Y/N	Y/N																																																																					
4. call completes	Y/N	Y/N	Y/N	Y/N																																																																					
call preempted	Y/N	Y/N	Y/N	Y/N																																																																					
A1/A2 rec PNT	Y/N	Y/N	Y/N	Y/N																																																																					
5. A3 rec BPA	Y/N	Y/N	Y/N	Y/N																																																																					
<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.1.2/3.1.4																																																																								
	Configure SUT switch with 3 analog subscribers (ON1,ON2 & ON3). Provision one each of the other supported line types BRI, Digital, and VoIP.																																																																								
C	<b>MLPP</b> <b>DSN Announcements</b>	1. Place a PRIORITY call from ON1 to DN1. 2. Place a PRIORITY call from ON2 to ON2 3. Place a PRIORITY call from ON2 to DN2. Place all instruments on hook. 4. Place a PRIORITY call from ON4 to DN1.(Repeat for each Precedence level above ROUTINE) Place all instruments on hook. 5. Place a ROUTINE call from ON1 by dialing 123-123-1234. Place all instruments on hook. 6. Place all channels of the link between the ON and the DN out of service. 7. Place a ROUTINE call from ON1 to DN1. Place all instruments on hook. 8. Place a PRIORITY call from ON1 to DN1 Place all instruments on hook. 9. Return all channels on the link between the ON and the DN to service. 10.Place a ROUTINE call from ON3 to DN1. 11.Place a PRIORITY call from ON1 to ON3. (Repeat for each precedence level above ROUTINE) Place all instruments on hook. 12.Place a ROUTINE call from ON1 to the Attendant Console, and answer call. 13.Place a cal from ON2 to Attendant Console, leave call in queue don't answer.  <b>Notes:</b>	1. Call completes. Y/N 2. Call receives BPA. Y/N 3. Call receives a BPA Y/N  4. Call receives UPA for all Precedence levels Y/N  5. Call receives VCA. Y/N  6. All out of service. Y/N  7. ROUTINE Call receives ICA. Y/N  8. PRIORITY Call receives ICA. Y/N  9. All channels in service. Y/N  10. Call completes. Y/N 11. Call receives BNEA for all Precedence levels. Y/N  12. Call completed to Attendant Console Y/N  13. ON2 receives ATQA. Y/N																																																																						
	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1		<b>Reference:</b> GSCR Sect. 3.1.3																																																																						
	Four BRI instruments are required on the SUT Originating Node (ON), (ON1, ON2, ON3, ON4 Two BRI instruments are required on the Destination Node (DN), (DN1, DN2). Provision one idle trunk between ON and DN Provision the ON1 and ON2 class of service as FLASH OVERRIDE. Provision the ON3 class of service as non-preemptable with no call waiting ROUTINE. Provision ON4 class of service as ROUTINE. Provision the ON for the following announcements and invocations as defined in Table 3-1: Blocked Precedence Announcement (BPA); Unauthorized Precedence Announcement (UPA); Vacant Code Announcement (VCA); Isolated Code Announcement (ICA)); Busy Not Equipped Announcement (BNEA) and Attendant Queue Announcement (ATQA) (Required for MFS and EO only																																																																								

**Table E-2.1.2. 2-wire Analog Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
D	<b>MLPP Precedence Call Diversion</b>	1. Verify at the SUT that that diversion timer is settable between 15-45 seconds for an unanswered call above ROUTINE) 2. Place a ROUTINE call from ON1 to DN2, don't answer; let ring for 1 min. Hang up call. 3. Place PRIORITY call from ON1 to DN2, don't answer. Hang up call. 4. Place ROUTINE call from ON1 to DN1. Hang up call. 5. Place PRIORITY call from ON1 to DN1.	1. Timer selectable between 15-45 seconds. Y/N 2. Call rings 1 min and does not divert. Y/N 3. Call diverts within 15-45 secs. Y/N 4. Call completes. Y/N 5. Call diverts to alternate DN. Y/N	
	<table border="1"> <tr> <td data-bbox="159 305 491 358"><b>Requirement:</b> MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="491 305 772 358"><b>Reference:</b> GSCR Sect. 3.3</td> </tr> <tr> <td colspan="2" data-bbox="159 358 772 542">Configure the SUT (DN) with 2 analog subscribers (DN1 &amp; DN2). Configure ON1 subscriber to be ROUTINE only (for ACDs, voice mail, etc.) with all calls above ROUTINE diverting to an alternate DN#. Configure an ON with 2 subscribers (ON1, ON2).</td> </tr> </table>			<b>Requirement:</b> MFS, EOS, SMEO & PBX1
<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.3			
Configure the SUT (DN) with 2 analog subscribers (DN1 & DN2). Configure ON1 subscriber to be ROUTINE only (for ACDs, voice mail, etc.) with all calls above ROUTINE diverting to an alternate DN#. Configure an ON with 2 subscribers (ON1, ON2).				
E	<b>MLPP COI</b>	CO1 group restricting members from terminating calls outside the group. 1. Place a ROUTINE call from ON1 to ON2. 2. Place a ROUTINE call from ON1 to ON3. 3. Place a ROUTINE call from ON2 to ON1. 4. Place a ROUTINE call from ON2 to ON3. 5. Place a ROUTINE call from ON3 to ON1. 6. Place a ROUTINE call from ON3 to ON2. 7. Place a ROUTINE call from ON1 to ON16. 8. Place a ROUTINE call from ON2 to ON16. 9. Place a ROUTINE call from ON3 to ON16. COI2 group allowing members to terminate calls outside the group. 10. Place a ROUTINE call from ON4 to ON9. 11. Place a ROUTINE call from ON4 to ON8. 12. Place a ROUTINE call from ON5 to ON7. 13. Place a ROUTINE call from ON5 to ON8. 14. Place a ROUTINE call from ON6 to ON6. 15. Place a ROUTINE call from ON6 to ON9. COI3 group restricting calls from terminating to members inside the group 16. Place a ROUTINE call from ON7 to ON8. 17. Place a ROUTINE call from ON7 to ON9. 18. Place a ROUTINE call from ON8 to ON7. 19. Place a ROUTINE call from ON8 to ON9. 20. Place a ROUTINE call from ON9 to ON7. 21. Place a ROUTINE call from ON9 to ON8.	1. Call completes. Y/N 2. Call completes. Y/N 3. Call completes. Y/N 4. Call completes. Y/N 5. Call completes. Y/N 6. Call completes. Y/N 7. Call fails. Y/N 8. Call fails. Y/N 9. Call fails. Y/N 10. Call completes. Y/N 11. Call completes. Y/N 12. Call completes. Y/N 13. Call completes. Y/N 14. Call completes. Y/N 15. Call completes. Y/N 16. Call completes. Y/N 17. Call completes. Y/N 18. Call completes. Y/N 19. Call completes. Y/N 20. Call completes. Y/N 21. Call completes. Y/N	
	<table border="1"> <tr> <td data-bbox="159 623 491 677"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td data-bbox="491 623 772 677"><b>Reference:</b> GSCR Sect. 3.8.9</td> </tr> <tr> <td colspan="2" data-bbox="159 677 772 1360">Sixteen analog instruments are required on the system under test (ON1-ON16). Provision a three member (ON1-ON3) COI group restricting members from terminating calls outside the group on (CO1). Provision a 3-member (ON4-ON6) COI group allowing members to terminate calls outside the group on (COI2). Provision a 3-member (ON7-ON9) COI group restricting calls from terminating to members inside the group on (COI3). Provision a three member (ON10-ON12) COI group allowing calls to terminate to members inside the group on (COI4). Provision an 8-member (ON1, ON4, ON7, ON10, ON12-ON15) COI group with shared members on (COI5). Provision one non-COI member on (ON16).</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS
<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9			
Sixteen analog instruments are required on the system under test (ON1-ON16). Provision a three member (ON1-ON3) COI group restricting members from terminating calls outside the group on (CO1). Provision a 3-member (ON4-ON6) COI group allowing members to terminate calls outside the group on (COI2). Provision a 3-member (ON7-ON9) COI group restricting calls from terminating to members inside the group on (COI3). Provision a three member (ON10-ON12) COI group allowing calls to terminate to members inside the group on (COI4). Provision an 8-member (ON1, ON4, ON7, ON10, ON12-ON15) COI group with shared members on (COI5). Provision one non-COI member on (ON16).				
		<b>Notes:</b>		

**Table E-2.1.2. 2-wire Analog Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
E	<b>MLPP COI (continued)</b>	22. Place a ROUTINE call from ON16 to ON7. 23. Place a ROUTINE call from ON16 to ON8. 24. Place a ROUTINE call from ON16 to ON9.	22. Call fails. Y/N 23. Call fails. Y/N 24. Call fails. Y/N	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"> <b>Requirement:</b>                      TS, MFS, &amp; EOS                 </td> <td style="width: 50%; padding: 2px;"> <b>Reference:</b>                      GSCR Sect. 3.8.9                 </td> </tr> </table> <p>Sixteen analog instruments are required on the system under test (ON1-ON16). Provision a three member (ON1-ON3) COI group restricting members from terminating calls outside the group on (COI1). Provision a 3-member (ON4-ON6) COI group allowing members to terminate calls outside the group on (COI2). Provision a 3-member (ON7-ON9) COI group restricting calls from terminating to members inside the group on (COI3). Provision a three member (ON10-ON12) COI group allowing calls to terminate to members inside the group on (COI4). Provision an 8-member (ON1, ON4, ON7, ON10, ON12-ON15) COI group with shared members on (COI5). Provision one non-COI member on (ON16).</p>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9	COI4 group allowing calls to terminate to members inside the group. 25. Place a ROUTINE call from ON10 to ON11. 26. Place a ROUTINE call from ON10 to ON12. 27. Place a ROUTINE call from ON11 to ON10. 28. Place a ROUTINE call from ON11 to ON12. 29. Place a ROUTINE call from ON12 to ON10. 30. Place a ROUTINE call from ON12 to ON11. 31. Place a ROUTINE call from ON16 to ON10. 32. Place a ROUTINE call from ON16 to ON11. 33. Place a ROUTINE call from ON16 to ON12.  COI5 group with shared members. 34. Place a ROUTINE call from ON13 to ON14. 35. Place a ROUTINE call from ON13 to ON15. 36. Place a ROUTINE call from ON14 to ON13. 37. Place a ROUTINE call from ON14 to ON15. 38. Place a ROUTINE call from ON15 to ON13. 39. Place a ROUTINE call from ON15 to ON14. 40. Place a ROUTINE call from ON13 to ON1. 41. Place a ROUTINE call from ON13 to ON4. 42. Place a ROUTINE call from ON13 to ON7. 43. Place a ROUTINE call from ON13 to ON10. 44. Place a ROUTINE call from ON14 to ON1. 45. Place a ROUTINE call from ON14 to ON4. 46. Place a ROUTINE call from ON14 to ON7. 47. Place a ROUTINE call from ON14 to ON10. 48. Place a ROUTINE call from ON15 to ON1. 49. Place a ROUTINE call from ON15 to ON4. 50. Place a ROUTINE call from ON15 to ON7. 51. Place a ROUTINE call from ON15 to ON10.
<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9			
<b>Notes:</b>				

**Table E-2.1.2. 2-wire Analog Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
F c o n t i n u e d	<b>MLPP COI Precedence Treatment (continued)</b>	COI7 group allowing members to terminate only ROUTINE calls outside the group and capability of dialing up to FLASH OVERRIDE inside.		
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON4 to NJ.</li> <li>2. Place a ROUTINE call from ON5 to ON10.</li> <li>3. Place a ROUTINE call from ON6 to ON10.</li> <li>4. Place a PRIORITY call from ON4 to ON10.</li> <li>5. Place a PRIORITY call from ON5 to ON10.</li> <li>6. Place a PRIORITY call from ON6 to ON10.</li> <li>7. Place a PRIORITY call from ON4 to ON5.</li> <li>8. Place a PRIORITY call from ON4 to ON6.</li> <li>9. Place a PRIORITY call from ON5 to ON4.</li> <li>10. Place a PRIORITY call from ON5 to ON6.</li> <li>11. Place a PRIORITY call from ON6 to ON4.</li> <li>12. Place a PRIORITY call from ON6 to ON5.</li> <li>13. Place an IMMEDIATE call from ON4 to ON5.</li> <li>14. Place an IMMEDIATE call from ON4 to ON6.</li> <li>15. Place an IMMEDIATE call from ON5 to ON4.</li> <li>16. Place an IMMEDIATE call from ON5 to ON6.</li> <li>17. Place an IMMEDIATE call from ON6 to ON4.</li> <li>18. Place an IMMEDIATE call from ON6 to ON5.</li> <li>19. Place a FLASH call from ON4 to ON5.</li> <li>20. Place a FLASH call from ON4 to ON6.</li> <li>21. Place a FLASH call from ON5 to ON4.</li> <li>22. Place a FLASH call from ON5 to ON6.</li> <li>23. Place a FLASH call from ON6 to ON4.</li> <li>24. Place a FLASH call from ON6 to ON5.</li> <li>25. Place a FLASH OVERRIDE call from ON4 to ON5.</li> <li>26. Place a FLASH OVERRIDE call from ON4 to ON6.</li> <li>27. Place a FLASH OVERRIDE call from ON5 to ON4.</li> <li>28. Place a FLASH OVERRIDE call from ON5 to ON6.</li> <li>29. Place a FLASH OVERRIDE call from ON6 to ON4.</li> <li>30. Place a FLASH OVERRIDE call from ON6 to ON5.</li> <li>31. Print the switch report containing records of the escalated precedence levels for ON4, ON5, and ON9 calls above ROUTINE.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call completes. Y/N</li> <li>2. Call completes. Y/N</li> <li>3. Call completes. Y/N</li> <li>4. Call fails. Y/N</li> <li>5. Call fails. Y/N</li> <li>6. Call fails. Y/N</li> <li>7. Call completes. Y/N</li> <li>8. Call completes. Y/N</li> <li>9. Call completes. Y/N</li> <li>10. Call completes. Y/N</li> <li>11. Call completes. Y/N</li> <li>12. Call completes. Y/N</li> <li>13. Call completes. Y/N</li> <li>14. Call completes. Y/N</li> <li>15. Call completes. Y/N</li> <li>16. Call completes. Y/N</li> <li>17. Call completes. Y/N</li> <li>18. Call completes. Y/N</li> <li>19. Call completes. Y/N</li> <li>20. Call completes. Y/N</li> <li>21. Call completes. Y/N</li> <li>22. Call completes. Y/N</li> <li>23. Call completes. Y/N</li> <li>24. Call completes. Y/N</li> <li>25. Call completes. Y/N</li> <li>26. Call completes. Y/N</li> <li>27. Call completes. Y/N</li> <li>28. Call completes. Y/N</li> <li>29. Call completes. Y/N</li> <li>30. Call completes. Y/N</li> <li>31. Report reflects escalated precedence levels for ON4, ON5, and NI calls.</li> </ol>
	Ten analog instruments are required on Node under test. (ON1-ON10). Provision a three member (ON1-ON3) COI group restricting normal calls from terminating to members inside the group but allowing precedence calls to terminate to members inside the group (COI6). Provision ON4, ON5, and ON6 class of service as ROUTINE. Provision a 3-member (ON4-ON6) COI group allowing members to terminate calls outside the group on (COI7). Provision COI7 with the option to service-treatment mark the station lines for the capability of dialing up to FLASH OVERRIDE inside the group. Provision ON7, ON8, and ON9 class of service as FLASH OVERRIDE. Provision a 3- member (ON7-ON9) COI group allowing members to terminate calls outside the group (COI8). Provision COI8 with the option to service-treatment marking the station lines to restrict members from terminating calls outside the group at a precedence higher than PRIORITY. Provision one non-COI member (ON10).		<b>Notes:</b>	

**Table E-2.1.2. 2-wire Analog Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
F c o n t i n u e d	<b>MLPP COI Precedence Treatment (continued)</b>	COI8 group restricting calls terminating to members outside the group to a precedence level higher than PRIORITY.		
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9	32. Place a ROUTINE call from ON7 to ON10. 33. Place a ROUTINE call from ON8 to ON10. 34. Place a ROUTINE call from ON9 to ON10.	32. Call completes. Y/N 33. Call completes. Y/N 34. Call completes. Y/N
		35. Place a PRIORITY call from ON7 to ON10. 36. Place a PRIORITY call from ON8 to ON10. 37. Place a PRIORITY call from ON9 to ON10. 38. Place a FLASH call from ON7 to ON10. 39. Place a FLASH call from ON8 to ON10. 40. Place a FLASH call from ON9 to ON10. 41. Place a PRIORITY call from ON7 to ON8. 42. Place a PRIORITY call from ON7 to ON9. 43. Place a PRIORITY call from ON8 to ON7. 44. Place a PRIORITY call from ON8 to ON9. 45. Place a PRIORITY call from ON9 to ON7. 46. Place a PRIORITY call from ON9 to ON8. 47. Place an IMMEDIATE call from ON7 to ON8. 48. Place an IMMEDIATE call from ON7 to ON9. 49. Place an IMMEDIATE call from ON8 to ON7. 50. Place an IMMEDIATE call from ON8 to ON9. 51. Place an IMMEDIATE call from ON9 to ON7. 52. Place an IMMEDIATE call from ON9 to ON8. 53. Place a FLASH call from ON7 to ON8. 54. Place a FLASH call from ON7 to ON9. 55. Place a FLASH call from ON8 to ON7. 56. Place a FLASH call from ON8 to ON9. 57. Place a FLASH call from ON9 to ON7. 58. Place a FLASH call from ON9 to ON8. 59. Place a FLASH OVERRIDE call from ON7 to ON8. 60. Place a FLASH OVERRIDE call from ON7 to ON9. 61. Place a FLASH OVERRIDE call from ON8 to ON7. 62. Place a FLASH OVERRIDE call from ON8 to ON9. 63. Place a FLASH OVERRIDE call from ON9 to ON7. 64. Place a FLASH OVERRIDE call from ON9 to ON8.	35. Call completes. Y/N 36. Call completes. Y/N 37. Call completes. Y/N 38. Call fails. Y/N 39. Call fails. Y/N 40. Call fails. Y/N 41. Call completes. Y/N 42. Call completes. Y/N 43. Call completes. Y/N 44. Call completes. Y/N 45. Call completes. Y/N 46. Call completes. Y/N 47. Call completes. Y/N 48. Call completes. Y/N 49. Call completes. Y/N 50. Call completes. Y/N 51. Call completes. Y/N 52. Call completes. Y/N 53. Call completes. Y/N 54. Call completes. Y/N 55. Call completes. Y/N 56. Call completes. Y/N 57. Call completes. Y/N 58. Call completes. Y/N 59. Call completes. Y/N 60. Call completes. Y/N 61. Call completes. Y/N 62. Call completes. Y/N 63. Call completes. Y/N 64. Call completes. Y/N	
<b>Notes:</b>				

**Table E-2.1.2. 2-wire Analog Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																														
G	<b>Secure Calls</b> <table border="1"> <tr> <td><b>Requirement:</b> All</td> <td><b>Reference:</b> CJCSI 6215.01B</td> </tr> </table>	<b>Requirement:</b> All	<b>Reference:</b> CJCSI 6215.01B	Place 2 ROUTINE secure voice calls from STU-III, STE (In 2W analog mode) and SWT (in 2W analog mode). Record the MOS and connection rate.	<table border="1"> <thead> <tr> <th></th> <th>STU</th> <th>STE</th> <th>SWT</th> </tr> </thead> <tbody> <tr> <td><b>STU call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STU call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> </tbody> </table>		STU	STE	SWT	<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:
	<b>Requirement:</b> All	<b>Reference:</b> CJCSI 6215.01B																															
	STU	STE	SWT																														
<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
Configure SUT with two each of: STU-III, STE and SWT.		Notes:																															

**Table E-2.1.3. 2-wire Analog Line Interface Test Procedures for Facsimile**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																				
A	<b>Facsimile</b> <table border="1"> <tr> <td><b>Requirement:</b> All</td> <td><b>Reference:</b> JTA</td> </tr> </table>	<b>Requirement:</b> All	<b>Reference:</b> JTA	Place 5 intraswitch facsimile between two analog subscribers. Send the IEEE 167A-1995 test sheet for quality measurement.	<table border="1"> <thead> <tr> <th>Call #</th> <th>Completed</th> <th>IEEE167A-1995</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Y/N</td> <td></td> </tr> <tr> <td>2</td> <td>Y/N</td> <td></td> </tr> <tr> <td>3</td> <td>Y/N</td> <td></td> </tr> <tr> <td>4</td> <td>Y/N</td> <td></td> </tr> <tr> <td>5</td> <td>Y/N</td> <td></td> </tr> </tbody> </table>	Call #	Completed	IEEE167A-1995	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	<b>Requirement:</b> All	<b>Reference:</b> JTA																					
Call #	Completed	IEEE167A-1995																					
1	Y/N																						
2	Y/N																						
3	Y/N																						
4	Y/N																						
5	Y/N																						
		Notes:																					

**Table E-2.1.4. 2-wire Analog Line Interface Test Procedures for Data**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)																				
A	<b>Modem</b>		Place 5 intraswitch modem calls of duration 2 mins between two analog subscribers using call loader.	<table border="1"> <thead> <tr> <th data-bbox="1430 269 1575 293">Call #</th> <th data-bbox="1575 269 1715 293">Completed</th> <th data-bbox="1715 269 1856 293">Data Rate</th> </tr> </thead> <tbody> <tr> <td align="center" data-bbox="1430 293 1575 318">1</td> <td align="center" data-bbox="1575 293 1715 318">Y/N</td> <td data-bbox="1715 293 1856 318"></td> </tr> <tr> <td align="center" data-bbox="1430 318 1575 342">2</td> <td align="center" data-bbox="1575 318 1715 342">Y/N</td> <td data-bbox="1715 318 1856 342"></td> </tr> <tr> <td align="center" data-bbox="1430 342 1575 367">3</td> <td align="center" data-bbox="1575 342 1715 367">Y/N</td> <td data-bbox="1715 342 1856 367"></td> </tr> <tr> <td align="center" data-bbox="1430 367 1575 391">4</td> <td align="center" data-bbox="1575 367 1715 391">Y/N</td> <td data-bbox="1715 367 1856 391"></td> </tr> <tr> <td align="center" data-bbox="1430 391 1575 415">5</td> <td align="center" data-bbox="1575 391 1715 415">Y/N</td> <td data-bbox="1715 391 1856 415"></td> </tr> </tbody> </table>			Call #	Completed	Data Rate	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	Call #	Completed		Data Rate																				
1	Y/N																							
2	Y/N																							
3	Y/N																							
4	Y/N																							
5	Y/N																							
<table border="1"> <tr> <td data-bbox="163 289 485 344"><b>Requirement:</b> All</td> <td data-bbox="485 289 774 344"><b>Reference:</b> CJCSI 6215.01B</td> </tr> </table>		<b>Requirement:</b> All	<b>Reference:</b> CJCSI 6215.01B	<p><b>Notes:</b></p>																				
<b>Requirement:</b> All	<b>Reference:</b> CJCSI 6215.01B																							
B	<b>Secure Data</b>		<p>1. Place an intraswitch STU-III to STU-III secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.</p> <p>2. Place an intraswitch STU-III to STE secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.</p> <p>3. Place a STE to STE secure data call from ON to DN. Run a Bit Error Rate Test at 19.2 Kbps using a 511 test pattern for 9 hours minutes.</p>	<table border="1"> <tbody> <tr> <td data-bbox="1430 589 1623 613">1. No Pattern slips.</td> <td align="right" data-bbox="1948 589 2011 613">Y/N</td> </tr> <tr> <td data-bbox="1430 613 1623 638">No Pattern losses.</td> <td align="right" data-bbox="1948 613 2011 638">Y/N</td> </tr> <tr> <td data-bbox="1430 638 1770 662">Bit Error Rate better than 1X10<sup>-9</sup></td> <td align="right" data-bbox="1948 638 2011 662">Y/N</td> </tr> <tr> <td data-bbox="1430 686 1623 711">2. No Pattern slips.</td> <td align="right" data-bbox="1948 686 2011 711">Y/N</td> </tr> <tr> <td data-bbox="1430 711 1623 735">No Pattern losses.</td> <td align="right" data-bbox="1948 711 2011 735">Y/N</td> </tr> <tr> <td data-bbox="1430 735 1770 760">Bit Error Rate better than 1X10<sup>-9</sup></td> <td align="right" data-bbox="1948 735 2011 760">Y/N</td> </tr> <tr> <td data-bbox="1430 784 1623 808">3. No Pattern slips.</td> <td align="right" data-bbox="1948 784 2011 808">Y/N</td> </tr> <tr> <td data-bbox="1430 808 1623 833">No Pattern losses.</td> <td align="right" data-bbox="1948 808 2011 833">Y/N</td> </tr> <tr> <td data-bbox="1430 833 1770 857">Bit Error Rate better than 1X10<sup>-9</sup></td> <td align="right" data-bbox="1948 833 2011 857">Y/N</td> </tr> </tbody> </table>			1. No Pattern slips.	Y/N	No Pattern losses.	Y/N	Bit Error Rate better than 1X10 <sup>-9</sup>	Y/N	2. No Pattern slips.	Y/N	No Pattern losses.	Y/N	Bit Error Rate better than 1X10 <sup>-9</sup>	Y/N	3. No Pattern slips.	Y/N	No Pattern losses.	Y/N	Bit Error Rate better than 1X10 <sup>-9</sup>	Y/N
	1. No Pattern slips.	Y/N																						
No Pattern losses.	Y/N																							
Bit Error Rate better than 1X10 <sup>-9</sup>	Y/N																							
2. No Pattern slips.	Y/N																							
No Pattern losses.	Y/N																							
Bit Error Rate better than 1X10 <sup>-9</sup>	Y/N																							
3. No Pattern slips.	Y/N																							
No Pattern losses.	Y/N																							
Bit Error Rate better than 1X10 <sup>-9</sup>	Y/N																							
<table border="1"> <tr> <td data-bbox="163 633 485 711"><b>Requirement:</b> All</td> <td data-bbox="485 633 774 711"><b>Reference:</b> CJCSI 6215.01B &amp; GSCR Sect. 6.17</td> </tr> </table>		<b>Requirement:</b> All	<b>Reference:</b> CJCSI 6215.01B & GSCR Sect. 6.17	<p><b>Notes:</b></p>																				
<b>Requirement:</b> All	<b>Reference:</b> CJCSI 6215.01B & GSCR Sect. 6.17																							

**E-2.2 Integrated Services Digital Network (ISDN) Basic Rate Interface (BRI) National ISDN (NI) 1/2 (T1.619a) Line interface.** Certification requirements for ISDN BRI comprise access, voice, facsimile, data and video teleconferencing (VTC). Tables E-2.2.1 through E-2.2.5 list the detailed procedures used to verify requirements. Objectives, criterion, and data required are contained in appendix D section 2.2.

**Table E-2.2.1. ISDN BRI Line Interface Test Procedures for Access**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
A	<b>DN Identification</b>		1. Place an intra switch call from ON1 to ON2 2. Place an inter-switch call from ON1 to DN1	1. Verify with call detail records or by tracing that the DN is auto identified. Y/N
	<b>Requirement:</b> MFS, EOS, SMEO, PBX1 & PBX2	<b>Reference:</b> GSCR Sect. 2.1.1		2. Verify with call detail records or by tracing that the DN is auto identified. Y/N
	Configure the SUT to have two BRI subscribers (ON1, ON2), and one subscriber on a destination switch (DN1) Configure the phone with a directory number (DN#).		<b>Notes:</b>	
B	<b>Line Signaling</b>		1. Verify that the SUT supports the following BRI signaling/protocol types: a. Q.931 b. National ISDN 1 and 2 c. ANSI T1. 619a Signal Information Elements	1. Switch supports: a. Q.931 Y/N
	<b>Requirement:</b> MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 5.2		c. ANSI T1. 619a Signal Information Elements Y/N
			<b>Notes:</b>	
C	<b>Alerting Signals and Tones</b>		1. Place ROUTINE call from ON1 to ON2; don't answer. Hang up call. 2. Place IMMEDIATE call from ON1 to ON2; don't answer.	1. ON2 ringing @ 10 IPM, 2 sec on 4 sec off. Y/N
	<b>Requirement:</b> MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 5.5		ON1 audible ringback tone @ 10 IPM, 2 sec on 4 sec off Y/N
	Configure SUT with 2 BRI subscribers (ON1 – ON2)			2. ON2 ringing @ 30 IPM, 1640 msec on and 360 msec off. Y/N
		<b>Notes:</b>	ON1 audible ringback tone @ 30 IPM, 1640 msec on and 360 msec off. Y/N	

**Table E-2.2.1. ISDN BRI Line Interface Test Procedures for Access (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
D	<b>WWNDP</b>	1. Verify in that the switch under test supports 7 digit intra-switch dialing as well as 7 and 10 digit inter-switch dialing. Note: This can be validated in either translations or documentation	1. Switch supports 7 digit intra-switch dialing. Y/N Switch supports 7 and 10 digit inter-switch dialing. Y/N		
	<table border="1"> <tr> <td data-bbox="163 282 516 336"><b>Requirement:</b> TS, MFS, EOS, SMEO, &amp; PBX1</td> <td data-bbox="516 282 772 336"><b>Reference:</b> GSCR Sect. 4.5</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 4.5		
	<b>Requirement:</b> TS, MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 4.5			
Configure two BRI instruments on the SUT (ON1-ON2) with FLASHOVERRIDE precedence Configure one BRI instrument on the Destination Node (DN1) with 7 digit inter-switch dialing and DN2 with 10 digit inter-switch dialing Configure a T1 CAS trunk (if applicable; Note: all trunk types need to be tested) between the SUT and DN	2. INTRA-Switch Dialing: a. ON1 calls ON2 by dialing KXX-XXXX; then hang up call b. ON1 calls ON2 by dialing 93-KXX-XXXX; then hang up call c. Repeat step 2 b. for all precedence levels (i.e. 92, 91, 90) 3. INTER-Switch Dialing: (7 digit) a. ON1 calls DN1 by dialing 94 KXX-XXXX; then hang up call b. ON1 calls DN1 by dialing 93 KXX-XXXX; then hang up call c. Repeat 3 b. for all precedence levels; then hang up each call d. *ON1 calls DN1 by dialing 94 (11) KXX-XXXX * This dialing scheme only required for SS7 and CAS trunks e. Repeat 3 d. for all precedence levels; then hang up each call 4. INTER-Switch Dialing: (10 digit) a. ON1 calls DN2 by dialing 94 KXX-KXX-XXXX; then hang up call b. ON1 calls DN2 by dialing 93 KXX-KXX-XXXX; then hang up call c. Repeat 4 b. for all precedence levels; then hang up each call d. *ON1 calls DN2 by dialing 94 (11) KXX-KXX-XXXX * This dialing scheme only required for SS7 and CAS trunks e. Repeat 3 d. for all precedence levels; then hang up each call 5. SUT supports DSN user dialing (N) (P or S) (1X) (KXX) KXX-XXXX where: N is any digit 2-9 P is any digit 0-4 S is any digit 5-9 X is any digit 0-9 K is any digit 2-8 Comments: 1. Digits shown in ( ) are not dialed by the DSN user on all calls 2. The Access digit (N) plus the precedence or service digit constitutes the access code	2. INTRA-Switch Dialing a. ON1 to ON2 call completes @ ROUTINE Y/N b. ON1 to ON2 call completes @ PRIORITY Y/N c. ON1 to ON2 calls complete for all Prec Lvl's Y/N 3. INTER-Switch Dialing (7 digit) a. ON1 to DN1 call completes at ROUTINE Y/N b. ON1 to DN1 call completes at PRIORITY Y/N c. ON1 to DN1 calls complete for all Prec Lvl's Y/N d. ON1 to DN1 call completes at ROUTINE Y/N e. ON1 to DN1 calls complete at all Prec Lvl's Y/N 4. INTER-Switch Dialing (10 digit) a. ON1 to DN2 call completes at ROUTINE Y/N b. ON1 to DN2 call completes at PRIORITY Y/N c. ON1 to DN2 calls complete for all Prec Lvl's Y/N d. ON1 to DN2 call completes at ROUTINE Y/N e. ON1 to DN2 calls complete at all Prec Lvl's Y/N 5. SUT supports DSN WWNDP user dialing. Y/N			
	<b>Notes:</b>				

**Table E-2.2.1. ISDN BRI Line Interface Test Procedures for Access (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
E	<b>Call Treatments</b>		<b>Originating Busy Treatment:</b>	<b>Originating Busy Treatment:</b>
	<b>Requirement:</b> All	<b>Reference:</b> GSCR Sect. 4.1.1	<ol style="list-style-type: none"> <li>1. The SUT determines the precedence level of the call after 9P but not later the last digit is dialed by user.</li> <li>2. Go off hook with ON1 and dial 9 (access digit) only.</li> <li>3. Place a PRIORITY call from ON2 to ON1. Place all instruments on hook.</li> <li>4. Go off hook with ON1 and dial 9 (access digit) only.</li> <li>5. Place a IMMEDIATE call from ON2 to ON1. Place all instruments on hook.</li> <li>6. Go off hook with ON1 and dial 9 (access digit) only and leave off hook.</li> <li>7. Place a FLASH call from ON2 to ON1. Place all instruments on hook.</li> <li>8. Go off hook with ON1 and dial 9 (access digit) only.</li> <li>9. Place a FLASH OVERRIDE call from ON2 to ON1. Place all instruments on hook.</li> <li>10. Go off hook with ON1 and dial 94 or number of digits to determine a ROUTINE precedence call.</li> <li>11. Place a PRIORITY call from ON2 to ON1. Place all instruments on hook.</li>   <li>12. Go off hook with ON1 and dial 93 or number of digits to determine a ROUTINE precedence call.</li> <li>13. Place a IMMEDIATE call from ON2 to ON1. Place all instruments on hook.</li>   <li>14. Go off hook with ON1 and dial 93 or number of digits to determine a ROUTINE precedence call.</li> <li>15. Place a PRIORITY call from ON2 to ON1. Place all instruments on hook.</li> </ol>	<ol style="list-style-type: none"> <li>1. Precedence determined after ____ digits dialed</li>   <li>2. ON1 off hook and in partial dial state. Y/N</li> <li>3. Call incomplete, deflects to the attendant, Alt DN or BPA. Y/N</li> <li>4. ON1 off hook and in partial dial state. Y/N</li> <li>5. Call incomplete, deflects to the attendant, Alt DN or BPA. Y/N</li> <li>6. ON1 off hook and in partial dial state Y/N</li>   <li>7. Call incomplete and deflects to attendant, Alt DN or BPA. Y/N</li> <li>8. ON1 off hook and in partial dial state. Y/N</li> <li>9. Call incomplete, deflects to the attendant, Alt DN or BPA. Y/N</li> <li>10. ON1 off hook in partial or complete dial state. Y/N</li>   <li>11. ON1 receives preempt notification tone (PNT) (note: if prec level is determined after last digit dialed the DN called by ON1 will also receive PNT ON2 to ON1 call completes. Y/N</li> <li>12. ON1 off hook in partial or complete dial state. Y/N</li>   <li>13. ON1 receives PNT (note: if prec level is determined after last digit dialed the DN called by ON1 will also receive PNT ON2 to ON1 call completes. Y/N</li> <li>14. ON1 off hook in partial or complete dial state. Y/N</li>   <li>15. ON2 receives a BPA Y/N</li> </ol>
	<b>Originating Busy Treatment:</b> Two BRI instruments with automatic redial are required on the node under test. (ON1, ON2). Provision ON1 and ON2 for class of service as FLASH OVERRIDE.		<b>Notes:</b>	

**Table E-2.2.1. ISDN BRI Line Interface Test Procedures for Access (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
E c o n t i n u e d	<b>Call Treatments (continued)</b>		<b>Busy/Idle Status Treatment:</b>	<b>Busy/Idle Status Treatment:</b>
	<b>Requirement:</b> All	<b>Reference:</b> GSCR Sect. 4.1	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON1 to DN1.</li> <li>2. Place a PRIORITY call from ON2 to DN2. Place ON1 and DN1 on hook.</li> <li>3. Place an IMMEDIATE call from ON1 to DN1. Place ON2 and DN2 on hook.</li> <li>4. Place a FLASH call from ON2 to DN2. Place ON1 and DN1 on hook.</li> <li>5. Place a FLASH OVERRIDE call from ON1 to DN1. Place all instruments on hook.</li> <li>6. Return all channels on the link under test to service.</li> <li>7. Place a ROUTINE call from ON1 to DN1.</li> <li>8. Place a PRIORITY call from ON2 to ON1. Place DN1 on hook.</li> <li>9. Place an IMMEDIATE call from ON3 to ON1. Place ON2 on hook.</li> <li>10. Place a FLASH call from ON2 to ON1. Place ON3 on hook.</li> <li>11. Place a FLASH OVERRIDE call from ON3 to ON1. Place all instruments on hook.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call completes. Y/N</li> <li>2. Call completes; preempts ROUTINE call. Y/N</li> <li>3. Call completes; preempts PRIORITY call. Y/N</li> <li>4. Call completes; preempts IMMEDIATE call. Y/N</li> <li>5. Call completes; preempts FLASH call. Y/N</li> <li>6. All channels idle. Y/N</li> <li>7. Call completes. Y/N</li> <li>8. Call completes; preempts ROUTINE call. Y/N</li> <li>9. Call completes; preempts PRIORITY call. Y/N</li> <li>10. Call completes; preempts IMMEDIATE call. Y/N</li> <li>11. Call completes; preempts FLASH call. Y/N</li> </ol>
	<b>Busy/Idle Status Treatment:</b> Three BRI instruments are required on the Originating Node (ON) SUT, (ON1, ON2, ON3). Two BRI instruments are required on the Destination Node (DN), (DN1, DN2). Place all except one channel on the link under test out of service. Place any alternate routes out of service. Use the Tektronix 1297 to capture data on the ISDN preemption messaging.		<b>Notes:</b>	
F	<b>Class of service</b>		1. Verify that the switch can support a minimum of 256 classmarks.	1. Minimum 256 classmarks. Y/N
	<b>Requirement:</b> MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 4.1.6	2. Verify that switch can assign classmarks to station line, access line, number code, trunk or group of trunks.	2. Classmark assignment: Station line. Y/N Access line. Y/N Number code. Y/N Trunk. Y/N Group of trunks. Y/N
			<b>Notes:</b>	

**Table E-2.2.1. ISDN BRI Line Interface Test Procedures for Access (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
G	<b>Screening</b>	<b>Zone Restriction Capacity:</b> 1. Print the switch report for Node under test.  Screening. 1. Place a call from ON1 to ON2 @ ROUTINE: then hang up call 2. Place a call from ON1 to DN1 @ PRIORITY; then hang up call 3. Repeat step 2 for each office code to DN1; hang up after each call 4. Place a call from ON3 to DN1 @ ROUTINE by dialing office code allowed by Class of Service 5. Place a call from ON3 to DN1 @ ROUTINE by dialing office codes denied by Class of Service 6. Place a call from ON4 to DN1 @ ROUTINE by dialing area code allowed by Class of Service 7. Place a call from ON4 to DN1 @ ROUTINE by dialing area codes denied by Class of Service 8. Place a call from ON5 to DN1 @ ROUTINE by dialing area code/office code allowed by Class of Service 9. Place a call from ON5 to DN1 @ ROUTINE by dialing area code with office codes denied by Class of Service  <b>Notes:</b>	<b>Zone Restriction Capacity:</b> 1. Node report verifies switch capable of up to 15 zone restriction tables Y/N Screening. Y/N 1. ON1 to ON2 call completed @ ROUTINE Y/N 2. ON1 to DN1 call completed @ PRIORITY Y/N 3. ON1 to DN1 call completed for each office code dialed Y/N 4. ON3 to DN1 call completed @ ROUTINE Y/N 5. ON3 receives a VCA for other office codes dialed Y/N 6. ON4 to DN1 call completed @ ROUTINE Y/N 7. ON4 receives a VCA for other area codes dialed Y/N 8. ON5 to DN1 call completed @ ROUTINE Y/N 9. ON5 receives a VCA for other office codes denied Y/N	
	<b>Requirement:</b> MFS, EOS, & SMEO			<b>Reference:</b> GSCR Sect. 4.5.8
	<b>Zone Restriction Capacity:</b> Provision 15 zone restriction tables on the SUT.  Screening: Five BRI instruments are required on the Origination Node (ON) SUT (ON1, ON2, ON3, ON4, ON5). One BRI instrument is required on the Destination Node (DN1) (Note: DN may be different switches in this test) Configure Class of Service on ON1 for intra-switch dialing only <b>Office code screening (no restriction):</b> Configure Class of Service on ON2 for intra-switch and inter-switch dialing (all office codes) <b>Office code screening (restricted)</b> Configure Class of Service on ON3 for intra-switch dialing, and inter-switch dialing (only one office code allowed; all other office codes denied. <b>Area code screening (restricted)</b> Configure Class of Service on ON4 for intra-switch dialing, and inter-switch dialing (only area code allowed; all other area codes denied. <b>Area code/office code screening (restricted)</b> Configure Class of Service on ON5 for intra-switch dialing, and inter-switch dialing (only one office code allowed for a specified area code, all other office codes denied.			

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)															
A	<b>MOS</b>	1. Make 2 intraswitch calls from a BRI subscriber to each of the other supported line types. Record the MOS for each call.  <b>Notes:</b>	1. MOS: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Call #</th> <th>2W</th> <th>BRI</th> <th>Digital</th> <th>VoIP</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Call #	2W	BRI	Digital	VoIP	1					2				
	Call #		2W	BRI	Digital	VoIP												
	1																	
2																		
<b>Requirement:</b> All	<b>Reference:</b> CJCSI 6215.01B																	
Configure SUT switch with 2 BRI subscribers (ON1 and ON2). Provision one each of the other supported line types BRI, Digital, and VoIP.																		

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																																						
B	<b>MLPP</b> <b>Precedence Levels and Invocation &amp; Operation</b>	<ol style="list-style-type: none"> <li>Place a ROUTINE call from ON1 to ON2. Place PRIORITY call from ON3 to ON2. Hang up call.</li> <li>Place PRIORITY call ON1 to ON2. Place IMMEDIATE call from ON3 to ON2. Hang up call.</li> <li>Place IMMEDIATE call ON1 to ON2. Place FLASH call from ON3 to ON2. Hang up call.</li> <li>Place FLASH call ON1 to ON2. Place FLASH OVERRIDE call from ON3 to ON2. Hang up call.</li> </ol> <p>Repeat for other line types.</p>	<b>1. MLPP</b> <table border="1"> <thead> <tr> <th>From BRI to:</th> <th>Analog</th> <th>BRI</th> <th>Digital</th> <th>VoIP</th> </tr> </thead> <tbody> <tr> <td>1. call completes</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>call preempted</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>ON1/ON2 rec PNT</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>2. call completes</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>call preempted</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>ON1/ON2 rec PNT</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>3. call completes</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>call preempted</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>ON1/ON2 rec PNT</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>4. call completes</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>call preempted</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>ON1/ON2 rec PNT</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> <tr> <td>5. ON3 rec BPA</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> <td>Y/N</td> </tr> </tbody> </table>	From BRI to:	Analog	BRI	Digital	VoIP	1. call completes	Y/N	Y/N	Y/N	Y/N	call preempted	Y/N	Y/N	Y/N	Y/N	ON1/ON2 rec PNT	Y/N	Y/N	Y/N	Y/N	2. call completes	Y/N	Y/N	Y/N	Y/N	call preempted	Y/N	Y/N	Y/N	Y/N	ON1/ON2 rec PNT	Y/N	Y/N	Y/N	Y/N	3. call completes	Y/N	Y/N	Y/N	Y/N	call preempted	Y/N	Y/N	Y/N	Y/N	ON1/ON2 rec PNT	Y/N	Y/N	Y/N	Y/N	4. call completes	Y/N	Y/N	Y/N	Y/N	call preempted	Y/N	Y/N	Y/N	Y/N	ON1/ON2 rec PNT	Y/N	Y/N	Y/N	Y/N	5. ON3 rec BPA	Y/N	Y/N	Y/N	Y/N
	From BRI to:			Analog	BRI	Digital	VoIP																																																																		
1. call completes	Y/N	Y/N	Y/N	Y/N																																																																					
call preempted	Y/N	Y/N	Y/N	Y/N																																																																					
ON1/ON2 rec PNT	Y/N	Y/N	Y/N	Y/N																																																																					
2. call completes	Y/N	Y/N	Y/N	Y/N																																																																					
call preempted	Y/N	Y/N	Y/N	Y/N																																																																					
ON1/ON2 rec PNT	Y/N	Y/N	Y/N	Y/N																																																																					
3. call completes	Y/N	Y/N	Y/N	Y/N																																																																					
call preempted	Y/N	Y/N	Y/N	Y/N																																																																					
ON1/ON2 rec PNT	Y/N	Y/N	Y/N	Y/N																																																																					
4. call completes	Y/N	Y/N	Y/N	Y/N																																																																					
call preempted	Y/N	Y/N	Y/N	Y/N																																																																					
ON1/ON2 rec PNT	Y/N	Y/N	Y/N	Y/N																																																																					
5. ON3 rec BPA	Y/N	Y/N	Y/N	Y/N																																																																					
	<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sects. 3.1.2, 3.1.4, & 3.6.2																																																																							
	Configure SUT switch with 3 BRI subscribers (ON1, ON2 & ON3). Configure each BRI for a single B appearance and single DN#. Provision three each of the other supported line types Analog, Digital, and VoIP.																																																																								
C	<b>MLPP</b> <b>DSN Announcements</b>	<ol style="list-style-type: none"> <li>Place a PRIORITY call from ON1 to DN1.</li> <li>Place a PRIORITY call from ON2 to ON2</li> <li>Place a PRIORITY call from ON2 to DN2. Place all instruments on hook.</li> <li>Place a PRIORITY call from ON4 to DN1.(Repeat for each Precedence level above ROUTINE) Place all instruments on hook.</li> <li>Place a ROUTINE call from ON1 by dialing 123-123-1234. Place all instruments on hook.</li> <li>Place all channels of the link between the ON and the DN out of service.</li> <li>Place a ROUTINE call from ON1 to DN1. Place all instruments on hook.</li> <li>Place a PRIORITY call from ON1 to DN1 Place all instruments on hook.</li> <li>Return all channels on the link between the ON and the DN to service.</li> <li>Place a ROUTINE call from ON3 to DN1.</li> <li>Place a PRIORITY call from ON1 to ON3. (Repeat for each precedence level above ROUTINE) Place all instruments on hook.</li> <li>Place a ROUTINE call from ON1 to the Attendant Console, and answer call.</li> <li>Place a call from ON2 to Attendant Console, leave call in queue don't answer.</li> </ol>	<ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>Call receives BPA. Y/N</li> <li>Call receives a BPA Y/N</li> <li>Call receives UPA for all Precedence levels Y/N</li> <li>Call receives VCA. Y/N</li> <li>All out of service. Y/N</li> <li>ROUTINE Call receives ICA. Y/N</li> <li>PRIORITY Call receives ICA. Y/N</li> <li>All channels in service. Y/N</li> <li>Call completes. Y/N</li> <li>Call receives BNEA for all Precedence levels. Y/N</li> <li>Call completed to Attendant Console Y/N</li> <li>ON2 receives ATQA. Y/N</li> </ol>																																																																						
	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1			<b>Reference:</b> GSCR Sect. 3.1.3																																																																					
	Eight analog instruments are required on the SUT Originating Node (ON), (ON1, ON2, ON3, ON4, ON5, ON6, ON7, ON8) Two analog instruments are required on the Destination Node (DN), (DN1, DN2). Provision one idle trunk between ON and DN Provision the ON1 and ON2 class of service as FLASH OVERRIDE. Provision the ON3 class of service as non-preemptable with no call waiting ROUTINE. Provision ON4 class of service as ROUTINE. Provision the ON for the following announcements and invocations as defined in Table 3-1: Blocked Precedence Announcement (BPA); Unauthorized Precedence Announcement (UPA); Vacant Code Announcement (VCA); Isolated Code Announcement (ICA); Busy Not Equipped Announcement (BNEA) and Attendant Queue Announcement (ATQA) (Required for MFS and EO only)																																																																								
	<b>Notes:</b>																																																																								

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
D	<b>MLPP Precedence Call Diversion</b>	1. Verify at the SUT that that diversion timer is settable between 15-45 seconds for an unanswered call above ROUTINE) 2. Place a ROUTINE call from ON1 to DN2, don't answer; let ring for 1 min. Hang up call. 3. Place PRIORITY call from ON1 to DN2, don't answer. Hang up call. 4. Place ROUTINE call from ON1 to DN1. Hang up call. 5. Place PRIORITY call from ON1 to DN1.	1. Timer selectable between 15-45 seconds. Y/N 2. Call rings 1 min and does not divert. Y/N 3. Call diverts within 15-45 secs. Y/N 4. Call completes. Y/N 5. Call diverts to alternate DN. Y/N
	<table border="1" data-bbox="159 313 770 370"> <tr> <td data-bbox="159 313 489 370"><b>Requirement:</b> MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="489 313 770 370"><b>Reference:</b> GSCR Sect. 3.3</td> </tr> </table> Configure the SUT (DN) with 2 BRI subscribers (DN1 & DN2). Configure ON1 subscriber to be ROUTINE only (for ACDs, voice mail, etc.) with all calls above ROUTINE diverting to an alternate DN#. Configure an ON with 2 subscribers (ON1, ON2).		
<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.3		
E	<b>MLPP Single B-channel, Multiple Appearances, Single DN#</b>	1. Place ROUTINE call from ON1 to DN1. 2. Place PRIORITY call from ON2 to DN1. 3. Place IMMEDIATE call from ON3 to DN1. 4. Place FLASH call from ON4 to DN1. 5. Place FLASH OVERRIDE call from ON5 to DN1. 6. Place FLASH OVERRIDE call from ON6 to DN1. 7. Hang up PRIORITY call ON2-DN1. 8. Place ROUTINE call from ON2 to DN1. 9. Place FLASH OVERRIDE call from ON2 to DN1. 10. Retrieve all calls. Hang up calls.	1. Call completes. Y/N 2. Precedence ringing and visual display of new call. Y/N Call capable of being answered; other call on hold. Y/N 3. Precedence ringing and visual display. Y/N Call capable of being answered; other call on hold. Y/N 4. Precedence ringing and visual display. Y/N Call capable of being answered; other calls on hold. Y/N 5. Precedence ringing and visual display. Y/N Call capable of being answered; other calls on hold. Y/N 6. Call preempts lowest precedence call on hold. Y/N PNT received. Y/N 7. Call terminates. Y/N 8. Call completes and is active call. Y/N 9. Call preempts active ROUTINE call. Y/N Calls receive PNT. Y/N 10. Calls on hold retrieved. Y/N
	<table border="1" data-bbox="159 748 770 805"> <tr> <td data-bbox="159 748 489 805"><b>Requirement:</b> MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="489 748 770 805"><b>Reference:</b> GSCR Sect. 3.6.3</td> </tr> </table> Configure the SUT (DN) with 1 BRI subscriber (DN1) for single B-channel, single DN# and multiple appearances. If supported, provision the SUT for 5 appearances, otherwise provision the maximum number supported up to 5). Configure an ON with 6 subscribers (ON1-ON6).		
<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.6.3		
<b>Notes:</b>			

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
F	<b>MLPP</b> <b>Two B-channels, Multiple Appearances, Single DN#</b>	1. Place ROUTINE call from ON1 to DN1. 2. Place PRIORITY call from ON2 to DN1.	1. Call completes. Y/N 2. Precedence ringing and visual display of new call. Y/N Call capable of being answered; other call on hold. Y/N	
	<table border="1" data-bbox="157 313 772 365"> <tr> <td data-bbox="157 313 485 365"><b>Requirement:</b> MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="485 313 772 365"><b>Reference:</b> GSCR Sect. 3.6.4</td> </tr> </table> Configure the SUT (DN) with 1 BRI subscriber (DN1). Provision for 5 appearances. Configure an ON with 6 subscribers (ON1-ON6).	<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.6.4	3. Place IMMEDIATE call from ON3 to DN1. 4. Place FLASH call from ON4 to DN1. 5. Place FLASH OVERRIDE call from ON5 to DN1. 6. Place FLASH OVERRIDE call from ON6 to DN1. 7. Hang up PRIORITY call ON2-DN1. 8. Place ROUTINE call from ON2 to DN1. 9. Place FLASH OVERRIDE call from ON2 to DN1. 10. Retrieve all calls. Hang up calls.
<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.6.4			
G	<b>MLPP</b> <b>Two B-channels, Two DN#s</b>	Two voice channels: 1. Place ROUTINE call from ON1 to DN1. 2. Place ROUTINE call from ON2 to DN2	1. Call completes. Y/N 2. Call completes. Y/N	
	<table border="1" data-bbox="157 893 772 945"> <tr> <td data-bbox="157 893 485 945"><b>Requirement:</b> MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="485 893 772 945"><b>Reference:</b> GSCR Sect. 3.6.5</td> </tr> </table> Configure the SUT (DN) with 1 BRI subscriber with 2 DN#s (DN1-DN2). Configure an ON with 6 subscribers (ON1-ON6).	<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.6.5	3. Place IMMEDIATE call from ON3 to DN1. Hang up call. 4. Place IMMEDIATE call from ON4 to DN2. Hang up call. 5. Place IMMEDIATE call from ON5 to DN1. 6. Place IMMEDIATE call from ON5 to DN1. 7. Place IMMEDIATE call from ON2 to DN1. 8. Place IMMEDIATE call from ON2 to DN1 9. Hang up all calls One voice channel (DN1) and one data channel (DN2) 10. Place a ROUTINE call from ON1 to DN1. 11. Place a ROUTINE call from ON2 to DN2 12. Place a FO call from ON2 to DN2
<b>Requirement:</b> MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.6.5			
		<b>Notes:</b>		

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
H	<b>MLPP COI</b>	COI1 group restricting members from terminating calls outside the group.			
	<table border="1"> <tr> <td data-bbox="163 313 485 370"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td data-bbox="485 313 772 370"><b>Reference:</b> GSCR Sect. 3.8.9</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9	1. Place a ROUTINE call from ON1 to ON2. 2. Place a ROUTINE call from ON1 to ON3. 3. Place a ROUTINE call from ON2 to ON1. 4. Place a ROUTINE call from ON2 to ON3. 5. Place a ROUTINE call from ON3 to ON1. 6. Place a ROUTINE call from ON3 to ON2. 7. Place a ROUTINE call from ON1 to ON16. 8. Place a ROUTINE call from ON2 to ON16. 9. Place a ROUTINE call from ON3 to ON16.	1. Call completes. Y/N 2. Call completes. Y/N 3. Call completes. Y/N 4. Call completes. Y/N 5. Call completes. Y/N 6. Call completes. Y/N 7. Call fails. Y/N 8. Call fails. Y/N 9. Call fails. Y/N
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9			
Sixteen BRI instruments are required on the system under test (ON1-ON16). Provision a three member (ON1-ON3) COI group restricting members from terminating calls outside the group on (COI1). Provision a 3-member (ON4-ON6) COI group allowing members to terminate calls outside the group on (COI2). Provision a 3-member (ON7-ON9) COI group restricting calls from terminating to members inside the group on (COI3). Provision a three member (ON10-ON12) COI group allowing calls to terminate to members inside the group on (COI4). Provision an 8-member (ON1, ON4, ON7, ON10, ON12-ON15) COI group with shared members on (COI5). Provision one non-COI member on (ON16).	COI2 group allowing members to terminate calls outside the group. 10. Place a ROUTINE call from ON4 to ON9. 11. Place a ROUTINE call from ON4 to ON8. 12. Place a ROUTINE call from ON5 to ON7. 13. Place a ROUTINE call from ON5 to ON8. 14. Place a ROUTINE call from ON6 to ON6. 15. Place a ROUTINE call from ON6 to ON9. COI3 group restricting calls from terminating to members inside the group 16. Place a ROUTINE call from ON7 to ON8. 17. Place a ROUTINE call from ON7 to ON9. 18. Place a ROUTINE call from ON8 to ON7. 19. Place a ROUTINE call from ON8 to ON9. 20. Place a ROUTINE call from ON9 to ON7. 21. Place a ROUTINE call from ON9 to ON8. 22. Place a ROUTINE call from ON16 to ON7. 23. Place a ROUTINE call from ON16 to ON8. 24. Place a ROUTINE call from ON16 to ON9. COI4 group allowing calls to terminate to members inside the group. 25. Place a ROUTINE call from ON10 to ON11. 26. Place a ROUTINE call from ON10 to ON12. 27. Place a ROUTINE call from ON11 to ON10. 28. Place a ROUTINE call from ON11 to ON12. 29. Place a ROUTINE call from ON12 to ON10. 30. Place a ROUTINE call from ON12 to ON11. 31. Place a ROUTINE call from ON16 to ON10. 32. Place a ROUTINE call from ON16 to ON11. 33. Place a ROUTINE call from ON16 to ON12.	10. Call completes. Y/N 11. Call completes. Y/N 12. Call completes. Y/N 13. Call completes. Y/N 14. Call completes. Y/N 15. Call completes. Y/N  16. Call completes. Y/N 17. Call completes. Y/N 18. Call completes. Y/N 19. Call completes. Y/N 20. Call completes. Y/N 21. Call completes. Y/N 22. Call fails. Y/N 23. Call fails. Y/N 24. Call fails. Y/N  25. Call completes. Y/N 26. Call completes. Y/N 27. Call completes. Y/N 28. Call completes. Y/N 29. Call completes. Y/N 30. Call completes. Y/N 31. Call completes. Y/N 32. Call completes. Y/N 33. Call completes. Y/N			
<b>Notes:</b>					

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
H c o n t i n u e d	<b>MLPP</b> <b>COI (continued)</b>		<b>COI (continued):</b> 34. COI5 group with shared members. 35. Place a ROUTINE call from ON13 to ON14. 36. Place a ROUTINE call from ON13 to ON15. 37. Place a ROUTINE call from ON14 to ON13. 38. Place a ROUTINE call from ON14 to ON15. 39. Place a ROUTINE call from ON15 to ON13. 40. Place a ROUTINE call from ON15 to ON14. 41. Place a ROUTINE call from ON13 to ON1. 42. Place a ROUTINE call from ON13 to ON4. 43. Place a ROUTINE call from ON13 to ON7. 44. Place a ROUTINE call from ON13 to ON10. 45. Place a ROUTINE call from ON14 to ON1. 46. Place a ROUTINE call from ON14 to ON4. 47. Place a ROUTINE call from ON14 to ON7. 48. Place a ROUTINE call from ON14 to ON10. 49. Place a ROUTINE call from ON15 to ON1. 50. Place a ROUTINE call from ON15 to ON4. 51. Place a ROUTINE call from ON15 to ON7. 52. Place a ROUTINE call from ON15 to ON10.	COI (continued): 34. Call completes. Y/N 35. Call completes. Y/N 36. Call completes. Y/N 37. Call completes. Y/N 38. Call completes. Y/N 39. Call completes. Y/N 40. Call completes. Y/N 41. Call completes. Y/N 42. Call completes. Y/N 43. Call completes. Y/N 44. Call completes. Y/N 45. Call completes. Y/N 46. Call completes. Y/N 47. Call completes. Y/N 48. Call completes. Y/N 49. Call completes. Y/N 50. Call completes. Y/N 51. Call completes. Y/N 52. Call completes. Y/N
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9	<b>Notes:</b>	
I	<b>MLPP</b> <b>COI Precedence Treatment</b>		<b>COI Precedence Treatment:</b> COI6 group restricting normal calls but allowing precedence calls to terminate to members. 1. Place a ROUTINE call from ON10 to ON1. 2. Place a ROUTINE call from ON10 to ON2. 3. Place a ROUTINE call from ON10 to ON3. 4. Place a PRIORITY call from ON10 to ON1. 5. Place a PRIORITY call from ON10 to ON2. 6. Place a PRIORITY call from ON10 to ON3. 7. Place an IMMEDIATE call from ON10 to ON1. 8. Place an IMMEDIATE call from ON10 to ON2. 9. Place an IMMEDIATE call from ON10 to ON3. 10. Place a FLASH call from ON10 to ON1. 11. Place a FLASH call from ON10 to ON2. 12. Place a FLASH call from ON10 to ON3. 13. Place a FLASH OVERRIDE call from ON10 to ON1. 14. Place a FLASH OVERRIDE call from ON10 to ON2. 15. Place a FLASH OVERRIDE call from ON10 to ON3.	COI Precedence Treatment: 1. Call fails. Y/N 2. Call fails. Y/N 3. Call fails. Y/N 4. Call completes. Y/N 5. Call completes. Y/N 6. Call completes. Y/N 7. Call completes. Y/N 8. Call completes. Y/N 9. Call completes. Y/N 10. Call completes. Y/N 11. Call completes. Y/N 12. Call completes. Y/N 13. Call completes. Y/N 14. Call completes. Y/N 15. Call completes. Y/N
	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3.8.9	<b>Notes:</b>	
Ten BRI instruments are required on Node under test. (ON1-ON10). Provision a three member (ON1-ON3) COI group restricting normal calls from terminating to members inside the group but allowing precedence calls to terminate to members inside the group (COI6). Provision ON4, ON5, and ON6 class of service as ROUTINE. Provision a 3-member (ON4-ON6) COI group allowing members to terminate calls outside the group on (COI7). Provision COI7 with the option to service-treatment mark the station lines for the capability of dialing up to FLASH OVERRIDE inside the group. Provision ON7, ON8, and ON9 class of service as FLASH OVERRIDE. Provision a 3-member (ON7-ON9) COI group allowing members to terminate calls outside the group (COI8). Provision COI8 with the option to service-treatment marking the station lines to restrict members from terminating calls outside the group at a precedence higher than PRIORITY. Provision one non-COI member (ON10).				

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
c o n t i n u e d	<b>MLPP</b> <b>COI Precedence Treatment (continued)</b>	<b>COI Precedence Treatment:</b> COI6 group restricting normal calls but allowing precedence calls to terminate to members.	COI Precedence Treatment:		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.8.9</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9	16. Place a ROUTINE call from ON10 to ON1. 17. Place a ROUTINE call from ON10 to ON2. 18. Place a ROUTINE call from ON10 to ON3. 19. Place a PRIORITY call from ON10 to ON1. 20. Place a PRIORITY call from ON10 to ON2. 21. Place a PRIORITY call from ON10 to ON3. 22. Place an IMMEDIATE call from ON10 to ON1. 23. Place an IMMEDIATE call from ON10 to ON2. 24. Place an IMMEDIATE call from ON10 to ON3. 25. Place a FLASH call from ON10 to ON1. 26. Place a FLASH call from ON10 to ON2. 27. Place a FLASH call from ON10 to ON3. 28. Place a FLASH OVERRIDE call from ON10 to ON1. 29. Place a FLASH OVERRIDE call from ON10 to ON2. 30. Place a FLASH OVERRIDE call from ON10 to ON3.	16. Call fails. Y/N 17. Call fails. Y/N 18. Call fails. Y/N 19. Call completes. Y/N 20. Call completes. Y/N 21. Call completes. Y/N 22. Call completes. Y/N 23. Call completes. Y/N 24. Call completes. Y/N 25. Call completes. Y/N 26. Call completes. Y/N 27. Call completes. Y/N 28. Call completes. Y/N 29. Call completes. Y/N 30. Call completes. Y/N
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.8.9			
Ten BRI instruments are required on Node under test. (ON1-ON10). Provision a three member (ON1-ON3) COI group restricting normal calls from terminating to members inside the group but allowing precedence calls to terminate to members inside the group (COI6). Provision ON4, ON5, and ON6 class of service as ROUTINE. Provision a 3-member (ON4-ON6) COI group allowing members to terminate calls outside the group on (COI7). Provision COI7 with the option to service-treatment mark the station lines for the capability of dialing up to FLASH OVERRIDE inside the group. Provision ON7, ON8, and ON9 class of service as FLASH OVERRIDE. Provision a 3- member (ON7-ON9) COI group allowing members to terminate calls outside the group (COI8). Provision COI8 with the option to service-treatment marking the station lines to restrict members from terminating calls outside the group at a precedence higher than PRIORITY. Provision one non-COI member (ON10).	COI7 group allowing members to terminate only ROUTINE calls outside the group and capability of dialing up to FLASH OVERRIDE inside. 31. Place a ROUTINE call from ON4 to ON10. 32. Place a ROUTINE call from ON5 to ON10. 33. Place a ROUTINE call from ON6 to ON10. 34. Place a PRIORITY call from ON4 to ON10. 35. Place a PRIORITY call from ON5 to ON10. 36. Place a PRIORITY call from ON6 to ON10. 37. Place a PRIORITY call from ON4 to ON5. 38. Place a PRIORITY call from ON4 to ON6. 39. Place a PRIORITY call from ON5 to ON4. 40. Place a PRIORITY call from ON5 to ON6. 41. Place a PRIORITY call from ON6 to ON4. 42. Place a PRIORITY call from ON6 to ON5. 43. Place an IMMEDIATE call from ON4 to ON5. 44. Place an IMMEDIATE call from ON4 to ON6. 45. Place an IMMEDIATE call from ON5 to ON4. 46. Place an IMMEDIATE call from ON5 to ON6. 47. Place an IMMEDIATE call from ON6 to ON4. 48. Place an IMMEDIATE call from ON6 to ON5. 49. Place a FLASH call from ON4 to ON5. 50. Place a FLASH call from ON4 to ON6. 51. Place a FLASH call from ON5 to ON4. 52. Place a FLASH call from ON5 to ON6. 53. Place a FLASH call from ON6 to ON4. 54. Place a FLASH call from ON6 to ON5.	31. Call completes. Y/N 32. Call completes. Y/N 33. Call completes. Y/N 34. Call fails. Y/N 35. Call fails. Y/N 36. Call fails. Y/N 37. Call completes. Y/N 38. Call completes. Y/N 39. Call completes. Y/N 40. Call completes. Y/N 41. Call completes. Y/N 42. Call completes. Y/N 43. Call completes. Y/N 44. Call completes. Y/N 45. Call completes. Y/N 46. Call completes. Y/N 47. Call completes. Y/N 48. Call completes. Y/N 49. Call completes. Y/N 50. Call completes. Y/N 51. Call completes. Y/N 52. Call completes. Y/N 53. Call completes. Y/N 54. Call completes. Y/N			
<b>Notes:</b>					

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
I c o n t i n u e d	<b>MLPP</b> <b>COI Precedence Treatment (continued)</b>	<b>COI Precedence Treatment (continued):</b> 55. Place a FLASH OVERRIDE call from ON4 to ON5. 56. Place a FLASH OVERRIDE call from ON4 to ON6. 57. Place a FLASH OVERRIDE call from ON5 to ON4. 58. Place a FLASH OVERRIDE call from ON5 to ON6. 59. Place a FLASH OVERRIDE call from ON6 to ON4. 60. Place a FLASH OVERRIDE call from ON6 to ON5. 61. Print the switch report containing records of the escalated precedence levels for ON4, ON5, and ON9 calls above ROUTINE. COI8 group restricting calls terminating to members outside the group to a precedence level higher than PRIORITY. 62. Place a ROUTINE call from ON7 to ON10. 63. Place a ROUTINE call from ON8 to ON10. 64. Place a ROUTINE call from ON9 to ON10. 65. Place a PRIORITY call from ON7 to ON10. 66. Place a PRIORITY call from ON8 to ON10. 67. Place a PRIORITY call from ON9 to ON10. 68. Place a FLASH call from ON7 to ON10. 69. Place a FLASH call from ON8 to ON10. 70. Place a FLASH call from ON9 to ON10. 71. Place a PRIORITY call from ON7 to ON8. 72. Place a PRIORITY call from ON7 to ON9. 73. Place a PRIORITY call from ON8 to ON7. 74. Place a PRIORITY call from ON8 to ON9. 75. Place a PRIORITY call from ON9 to ON7. 76. Place a PRIORITY call from ON9 to ON8. 77. Place an IMMEDIATE call from ON7 to ON8. 78. Place an IMMEDIATE call from ON7 to ON9. 79. Place an IMMEDIATE call from ON8 to ON7. 80. Place an IMMEDIATE call from ON8 to ON9. 81. Place an IMMEDIATE call from ON9 to ON7. 82. Place an IMMEDIATE call from ON9 to ON8. 83. Place a FLASH call from ON7 to ON8. 84. Place a FLASH call from ON7 to ON9. 85. Place a FLASH call from ON8 to ON7. 86. Place a FLASH call from ON8 to ON9. 87. Place a FLASH call from ON9 to ON7. 88. Place a FLASH call from ON9 to ON8. 89. Place a FLASH OVERRIDE call from ON7 to ON8. 90. Place a FLASH OVERRIDE call from ON7 to ON9. 91. Place a FLASH OVERRIDE call from ON8 to ON7. 92. Place a FLASH OVERRIDE call from ON8 to ON9. 93. Place a FLASH OVERRIDE call from ON9 to ON7. 94. Place a FLASH OVERRIDE call from ON9 to ON8.	COI Precedence Treatment (continued): 55. Call completes. Y/N 56. Call completes. Y/N 57. Call completes. Y/N 58. Call completes. Y/N 59. Call completes. Y/N 60. Call completes. Y/N 61. Report reflects escalated precedence levels for ON4, ON5, and NI calls. Y/N 62. Call completes. Y/N 63. Call completes. Y/N 64. Call completes. Y/N 65. Call completes. Y/N 66. Call completes. Y/N 67. Call completes. Y/N 68. Call fails. Y/N 69. Call fails. Y/N 70. Call fails. Y/N 71. Call completes. Y/N 72. Call completes. Y/N 73. Call completes. Y/N 74. Call completes. Y/N 75. Call completes. Y/N 76. Call completes. Y/N 77. Call completes. Y/N 78. Call completes. Y/N 79. Call completes. Y/N 80. Call completes. Y/N 81. Call completes. Y/N 82. Call completes. Y/N 83. Call completes. Y/N 84. Call completes. Y/N 85. Call completes. Y/N 86. Call completes. Y/N 87. Call completes. Y/N 88. Call completes. Y/N 89. Call completes. Y/N 90. Call completes. Y/N 91. Call completes. Y/N 92. Call completes. Y/N 93. Call completes. Y/N 94. Call completes. Y/N	
	<table border="1"> <tr> <td data-bbox="159 313 478 367">Requirement: TS, MFS, &amp; EOS</td> <td data-bbox="478 313 772 367">Reference: GSCR Sect. 3.8.9</td> </tr> </table>	Requirement: TS, MFS, & EOS	Reference: GSCR Sect. 3.8.9	<b>Notes:</b>
Requirement: TS, MFS, & EOS	Reference: GSCR Sect. 3.8.9			

**Table E-2.2.2. ISDN BRI Line Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)												
J	<b>Secure Calls</b>	Place 2 ROUTINE secure voice calls from STE (in ISDN mode). Record the MOS and connection rate.	<table border="1"> <thead> <tr> <th></th> <th>STU</th> <th>STE</th> <th>SWT</th> </tr> </thead> <tbody> <tr> <td><b>STE call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> </tbody> </table>		STU	STE	SWT	<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:
				STU	STE	SWT									
	<b>STE call 1</b>			MOS: Rate:	MOS: Rate:	MOS: Rate:									
<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:												
<b>Requirement:</b> All	<b>Reference:</b> CJCSI 6215.01B														
Configure SUT with two STEs and one each of STU-III, and SWT.	<b>Notes:</b>														

**Table E-2.2.3. ISDN BRI Line Interface Test Procedures for Facsimile**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																		
A	<b>Facsimile</b>	Place 5 digital facsimile calls. Send the IEEE167A-1995 test sheet for quality measurement.	<table border="1"> <thead> <tr> <th>Call #</th> <th>Completed</th> <th>IEEE167A-1995</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Y/N</td> <td></td> </tr> <tr> <td>2</td> <td>Y/N</td> <td></td> </tr> <tr> <td>3</td> <td>Y/N</td> <td></td> </tr> <tr> <td>4</td> <td>Y/N</td> <td></td> </tr> <tr> <td>5</td> <td>Y/N</td> <td></td> </tr> </tbody> </table>	Call #	Completed	IEEE167A-1995	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	Call #			Completed	IEEE167A-1995																
	1			Y/N																	
2	Y/N																				
3	Y/N																				
4	Y/N																				
5	Y/N																				
<b>Requirement:</b> Conditional	<b>Reference:</b> JTA																				
Configure two digital facsimiles off of the SUT.	<b>Notes:</b>																				

**Table E-2.2.4. ISDN BRI Line interface Test Procedures for Data**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
A	<b>56K Switched Data</b>		1. Using the Sunset BRI Test set place a synchronous switched 56K data calls from ON to DN. 2. Conduct a BERT for 9 hours with a pattern of 2047. 3. Repeat BERT via all other interfaces (i.e. SS7, PRI, E1 CAS etc.) for 15 minutes  <b>Notes:</b>	1. Bit Error Rate Recorded _____  2. Bit Error Rate $1 \times 10^{-9}$ or better Y/N 3. Bit Error Rate $1 \times 10^{-9}$ or better via each trunk type Y/N
	<b>Requirement:</b> MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 2.3.3/ 6.16/6.17		
	Configure one BRI instruments on the SUT Origination Node (ON) (ON1, ON2). Configure one BRI on the Destination Node (DN1)			
B	<b>64K Switched Data</b>		1. Using the Sunset BRI Test set place a synchronous switched 64K data calls from ON to DN and conduct a BERT for 9 hours with a pattern of 2047. 2. Conduct a BERT for 9 hours with a pattern of 2047 3. Repeat BERT via all other interfaces (i.e. SS7, PRI, E1 CAS etc.) for 15 minutes <b>Note:</b> T1 CAS does not support 64K  <b>Notes:</b>	1. Bit Error Rate Recorded _____  2. Bit Error Rate $1 \times 10^{-9}$ or better Y/N 3. Bit Error Rate $1 \times 10^{-9}$ or better via each trunk type Y/N
	<b>Requirement:</b> MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 2.3.3/ 6.16/6.17		
	Configure one BRI instruments on the SUT Origination Node (ON) (ON1, ON2). Configure one BRI on the Destination Node (DN1)			
C	<b>N X 56 Synchronous</b>		1. Using the ADTRAN 512s place a 336Kbps Bonding 1 call from the ON to the DN. 2. Repeat the above via each trunk type (i.e. SS7, PRI, E1 CAS etc.)  <b>Notes:</b>	1. Bonding 1 call @ 336Kbps completed Y/N  2. Bonding 1call @ 336 Kbps completed via each trunk type Y/N
	<b>Requirement:</b> MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 2.3.3/ 6.16/6.17		
	Configure three BRIs on SUT Origination Node to support Circuit Switched Synchronous data @ 56Kbps, and three BRIs on the DN to support Circuit Switched Synchronous data @ 56Kbps. Use the ADTRAN 512 IMUX equipment to conduct Bonding 1 @ 336 (6X56)			
D	<b>N X 64 Synchronous</b>		1. Using the ADTRAN 512s place a 384Kbps Bonding 1 call from the ON to the DN. 2. Repeat the above via each trunk type (i.e. SS7, PRI, E1 CAS etc.)  <b>Notes:</b>	1. Bonding 1call @ 384 Kbps completed Y/N  2. Bonding 1call @ 384 Kbps completed via each trunk type Y/N
	<b>Requirement:</b> MFS, EOS, SMEO, & PBX1	<b>Reference:</b> GSCR Sect. 2.3.3/ 6.16/6.17		
	Configure three BRIs on SUT Origination Node to support Circuit Switched Synchronous data @ 64Kbps, and three BRIs on the DN to support Circuit Switched Synchronous data @ 64Kbps. Use the ADTRAN 512 IMUX equipment to conduct Bonding 1 @ 384 (6X64)			

**Table E-2.2.4. ISDN BRI Line Test Procedures For Data (continued)**

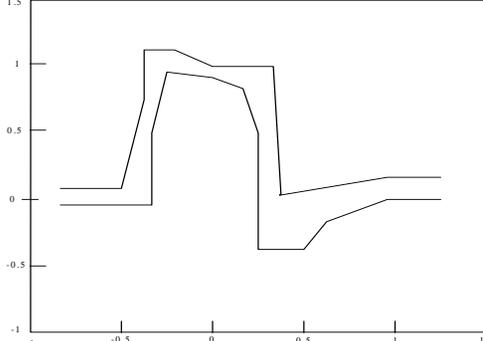
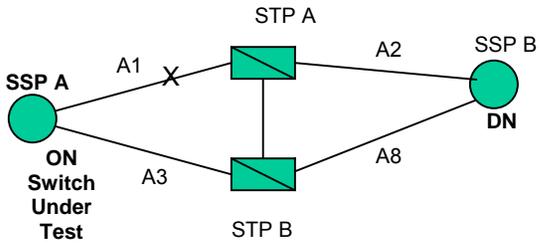
Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
E	<b>Secure Data Calls</b>	1. Place an intraswitch STE to STU-III secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes. 2. Place an inter-switch STE to STE secure data call from ON to DN. Run a Bit Error Rate Test at 19.2 Kbps using a 511 test pattern for 30 minutes. 3. Repeat for each trunk type.  <b>Notes:</b>	1. Bit Error Rate Recorded _____ 2. Bit Error Rate $1 \times 10^{-9}$ or better Y/N 3. Bit Error Rate $1 \times 10^{-9}$ or better via each trunk type Y/N	
	<b>Requirement:</b> All			<b>Reference:</b> CJSCI 6215.01B
	Provision the SUT with 2 STE (ISDN mode) and one STU-III. Use Sunset T1 to conduct BERT via serial port.			

**Table E-2.2.5. ISDN BRI VTC Test Procedures for VTC**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
A	<b>VTC</b>	1. Place an inter-switch 384 Kbps video call between VTC units from ON to DN 2. Repeat via each trunk type (SS7, PRI)  <b>Notes:</b>	1. VTC call completed @ 384 Bonding 1 Y/N 2. VTC call completed @ 384 Bonding 1 via each trunk type Y/N	
	<b>Requirement:</b> MFS, EOS, & SMEO			<b>Reference:</b>
	Provision two VTC units. One off of the SUT Origination Node and one off of Destination Node. Configure three BRIs to support CMD @ 64Kpbs.			

**E-2.3 T1 SS7 (T1.619a) Trunk Interface.** Tables E-2.3.1 through E-2.3.5 outline the detailed test procedures for testing the SUT's T1 SS7 trunk interface. This SS7 interface supports DSN Multi-Level Precedence and Preemption (MLPP) through the T1.619a protocol. Objectives, criterion and data required for this interface are contained in appendix D-2.3.

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
A	<p><b>Framing &amp; Line Code</b></p> <table border="1" data-bbox="163 435 772 488"> <tr> <td><b>Requirement:</b> Ts, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 7</td> </tr> </table> <p>Configure 2 T1's, one with ESF/B8ZS and one with SF/AMI</p>	<b>Requirement:</b> Ts, MFS, & EOS	<b>Reference:</b> GSCR Sect. 7	<ol style="list-style-type: none"> <li>1. Use the Sunset T10 test set to do a Pulse Mask Analysis to test the ESF T1 Electrical Interface Characteristics. G.703 and T1.102</li> <li>2. Use the Sunset T10 test set to do a Pulse Mask Analysis to test the T1 SF Interface Characteristics. G.703 and T1.102</li> </ol>	 <p>B8ZS/ESF Pulse Mask Passed Y/N AMI/SF Pulse Mask Passed Y/N</p>
<b>Requirement:</b> Ts, MFS, & EOS	<b>Reference:</b> GSCR Sect. 7				
<b>Notes:</b>					
B	<p><b>Signaling</b></p> <table border="1" data-bbox="163 937 772 990"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 5</td> </tr> </table>  <p>Monitor the SS7 links using the Tektronix 1297. Configure the Ameritec traffic loader to generate 2,500 calls per hour over the link from Origination Node (ON) to Destination Node (DN). Run for one hour to establish a baseline call completion rate then run for second hour. Monitor all SS7 links using the Tektronix 1297. Break link A1.</p>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 5	<ol style="list-style-type: none"> <li>1. Verify periodic maint. messages are transmitted from the SSPs. (i.e. SLTM, SLTA messages).</li> <li>2. Verify SSP A reports a failed link via maint/ admin. interface.</li> <li>3. Verify STP A reports a failed link via maint./admin. interface.</li> <li>4. Verify STP B generates a Changeover Order (COO).</li> <li>5. Verify a Change Over Acknowledgement (COA) is transmitted by distant-end SSP A</li> <li>6. Verify all Message Signal Unit's destined for the ON (SSP A) are routed over Link A3 via STP B.</li> <li>7. Restore link A1</li> <li>8. Verify that STP A and SSP A detects the link has been restored.</li> <li>9. Verify that either SSP A or STP A transmitted a Change Back Declaration (CBD).</li> <li>10. Verify the far-end node acknowledges the link is up by transmitting a Change Back Acknowledge (CBA).</li> <li>11. Verify SSP A reports link restored via maint./admin. interface.</li> <li>12. Check Link A1 for congestion, errors, lost messages, misdirected messages, and mis-sequenced messages.</li> <li>13. Record call completion rates.</li> </ol>	<ol style="list-style-type: none"> <li>1. Maintenance Messages transmitted. Y/N</li> <li>2. Link failure reported. Y/N</li> <li>3. Link failure reported. Y/N</li> <li>4. Changeover Order generated. Y/N</li> <li>5. COA transmitted Y/N</li> <li>6. Routing correct. Y/N</li> <li>7. Link A1 restored. Y/N</li> <li>8. Restored link reported. Y/N</li> <li>9. Change Back Declaration transmitted. Y/N</li> <li>10. Change Back Acknowledge transmitted. Y/N</li> <li>11. Link OK. Y/N</li> <li>12. Messages recorded. Y/N</li> <li>13. Call completion rate _____% Call completion rate is same as baseline. Y/N</li> </ol>
<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 5				
<b>Notes:</b>					

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
B c o n t i n u e d	<b>Signaling (continued)</b>	<b>T1.619a:</b>	
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 5	
	Provision two analog subscriber on the Origination Node (ONA, ONB), and two analog subscribers on the Destination Node (DNA, DNB). Provision ONA and DNA with the Automatic Recall (Network Ring-again) feature. Use the Tektronix 1297 to monitor all SS7 links and capture SS7 messaging		<ol style="list-style-type: none"> <li>1. Place five analog calls at each precedence level from Origination Node (ON) to Destination Node (DN) and stay in the talk state for 5 minutes. Capture the Message Signal Units for the Five calls. Place all instruments on hook.</li> <li>2. Repeat for other line types.</li> <li>3. Place a ROUTINE call from ON1 to DN1</li> <li>4. Place a ROUTINE call from ON2 to DN1. Place all instruments on hook.</li> </ol> <p><b>SCCP:</b></p> <ol style="list-style-type: none"> <li>1. Place a ROUTINE call from subscriber ON2 to DN1 and remain off hook.</li> <li>2. Place a ROUTINE call from subscriber ON1 to DN1</li> <li>3. Activate the Automatic Recall or Network Ring-again feature on ONA and place ON1 on hook.</li> <li>4. Place ON2 and DN1 on hook.</li> <li>5. Answer ON1.</li> <li>6. Verify that DN1 rings.</li> <li>7. Answer DN1. Place all phones on hook.</li> <li>8. Verify the correct SCCP format includes Routing Label, Mandatory Fixed Part, and Mandatory Variable Part</li> <li>9. Place a ROUTINE call from subscriber DN2 to ON1 and remain off hook.</li> <li>10. Place a ROUTINE call from subscriber DN1 to ON1.</li> <li>11. Activate the Automatic Recall or Network Ring-again feature on DN1 and place DN1 on hook.</li> <li>12. Place ON1 and DN2 on hook.</li> <li>13. Answer DN1.</li> <li>14. Verify that ON1 rings.</li> <li>15. Answer ON1. Place all phones on hook.</li> <li>16. Verify the correct SCCP format includes Routing Label, Mandatory Fixed Part, and Mandatory Variable Part.</li> </ol>
<b>Notes:</b>			

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
B c o n t i n u e d	<b>Signaling (continued)</b>		<b>Signaling Link Congestion.</b>	
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 5	1. Place a ROUTINE call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook.	1. ROUTINE call completes. Y/N IAM message captured Y/N Priority Level is 0 Y/N
	Provision one analog subscriber on the switch under test (Origination Node subscriber A (ONA) with Flash Override precedence capability. Provision one analog subscriber on the Destination Node (DNA). Use the Tektronix 1297 to monitor all SS7 links and capture SS7 messages.		2. Place a PRIORITY call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook. 3. Place an IMMEDIATE call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook. 4. Place a FLASH call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook. 5. Place a FLASH OVERRIDE call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook.	2. PRIORITY call completes. Y/N IAM message captured Y/N Priority Level is 1 Y/N 3. IMMEDIATE call completes. Y/N IAM message captured Y/N Priority Level is 2 Y/N 4. FLASH call completes. Y/N IAM message captured Y/N Priority Level is 3 Y/N 5. FLASH OVERRIDE call completes. Y/N IAM message captured Y/N Priority Level is 3 Y/N
<b>Notes:</b>				
C	<b>Alarms</b>		1. Break the receive path between SUT and DN at SUT.	1. SUT enter a Local/ Red Alarm state within 2.5 ± 0.5 secs of loss of frame. Y/N Time measured: _____
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 7.1.4 & 7.2.2	2. Reconnect the receive path between SUT and DN at SUT.	SUT sends Remote/Yellow Alarm. Y/N DN enters a Remote/ Yellow Alarm state. Y/N DN removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N Time measured: _____2.
	Provision an SS7 link between SUT and destination node (DN)		3. Break the receive path between SUT and DN at DN.  4. Reconnect the receive path between SUT and DN at DN.	2. SUT returns link to service within 15 + 5 secs. Y/N Time measured: _____ DN removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N Time measured: _____ 3. DN enter a Local/ Red Alarm state within 2.5 ± 0.5 seconds of loss of frame. Y/N Time measured: _____ DN sends remote/yellow Alarm. Y/N SUT enters a Remote/ Yellow Alarm state. Y/N SUT removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N Time measured: _____2. 4. DN return slink to service within 15 + 5 Secs. Y/N Time measured: _____ SUT removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N Time measured: _____
<b>Notes:</b>				

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)																																															
D	<b>WWNDP DSN user Dialing</b>		1. Verify in that the switch under test supports Interswitch 7 and 10 digit inter-switch dialing. Note: This can be validated in either translations or documentation 2. SUT supports DSN user dialing [N-P or S- 1X-KXX-XXXX]; where: N is any digit 2-9 P is any digit 0-4 S is any digit 5-9 X is any digit 0-9 K is any digit 2-8  <b>Notes:</b>	1. Switch supports 7 and 10 digit inter-switch Dialing. Y/N  2. SUT supports DSN user dialing. Y/N																																															
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 4.5.1																																																	
E	<b>WWNDP Route Control Digit (RCD)</b>		1. Exterior Routing. a. RCD Exterior Routing Logic.  <table border="1" data-bbox="879 699 1692 984"> <thead> <tr> <th colspan="2">ROUTINE calls</th> </tr> <tr> <th>RCD</th> <th>Route Selected</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>1</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>2</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>3</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <th colspan="2">Non-ROUTINE calls</th> </tr> <tr> <td>0</td> <td>All programmed routes</td> </tr> <tr> <td>1</td> <td>Use direct plus 1st and 2nd triple.</td> </tr> <tr> <td>2</td> <td>Use direct plus 1st and 3rd triple.</td> </tr> <tr> <td>3</td> <td>Use direct plus 1st triple.</td> </tr> </tbody> </table> b. ROUTINE Calls.  <table border="1" data-bbox="879 1057 1709 1211"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>1</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table> <b>Notes:</b>	ROUTINE calls		RCD	Route Selected	0	Use direct plus 1st triple.	1	Use direct plus 1st triple.	2	Use direct plus 1st triple.	3	Use direct plus 1st triple.	Non-ROUTINE calls		0	All programmed routes	1	Use direct plus 1st and 2nd triple.	2	Use direct plus 1st and 3rd triple.	3	Use direct plus 1st triple.	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	3	NA	NA	2	0	3	NA	NA	3	0	3	NA	NA	
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3	0	3	NA	NA																																															
<b>Requirement:</b> TS, MFS	<b>Reference:</b> GSCR Sect. 4.5.2.1																																																		

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																											
E C o n t i n u e d	<b>WWNDP</b> <b>Route Control Digit (RCD) (continued)</b>	c. Calls above ROUTINE- Idle Search																												
	<table border="1"> <tr> <td data-bbox="163 310 474 367">Requirement: TS, MFS</td> <td data-bbox="474 310 772 367">Reference: GSCR Sect. 4.5.2.1</td> </tr> </table>	Requirement: TS, MFS	Reference: GSCR Sect. 4.5.2.1	<table border="1"> <thead> <tr> <th data-bbox="884 293 1045 342">RCD In</th> <th data-bbox="1045 293 1207 342">'Direct' RCD Out</th> <th data-bbox="1207 293 1369 342">1st Alternate RCD out</th> <th data-bbox="1369 293 1530 342">2nd Alternate RCD out</th> <th data-bbox="1530 293 1713 342">3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>1</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	3	NA	NA	2	0	3	NA	NA	3	0	3	NA	NA	
	Requirement: TS, MFS	Reference: GSCR Sect. 4.5.2.1																												
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	d. Calls above ROUTINE- Preemptive Search																													
	2. Interior Routing. a. RCD Interior Routing Logic.	<table border="1"> <thead> <tr> <th colspan="2" data-bbox="884 773 1713 797">ROUTINE calls</th> </tr> <tr> <th data-bbox="884 797 1121 821">RCD</th> <th data-bbox="1121 797 1713 821">Route Selected</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>1</td> <td>Use direct only.</td> </tr> <tr> <td>2</td> <td>Use direct only.</td> </tr> <tr> <td>3</td> <td>Use direct only.</td> </tr> <tr> <th colspan="2" data-bbox="884 927 1713 951">Non-ROUTINE calls</th> </tr> <tr> <td>0</td> <td>All programmed routes</td> </tr> <tr> <td>1</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>2</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>3</td> <td>Use direct only.</td> </tr> </tbody> </table>	ROUTINE calls		RCD	Route Selected	0	Use direct plus 1st triple.	1	Use direct only.	2	Use direct only.	3	Use direct only.	Non-ROUTINE calls		0	All programmed routes	1	Use direct plus 1st triple.	2	Use direct plus 1st triple.	3	Use direct only.						
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RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out																										
0	0	1,2, or 3	NA	NA																										
1	0	NA	NA	NA																										
2	0	NA	NA	NA																										
3	0	NA	NA	NA																										
	<b>Notes:</b>																													

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																		
E C o n t i n u e d	<b>WWNDP</b> <b>Route Control Digit (RCD) (continued)</b>	c. Calls above ROUTINE- Idle Search  <table border="1" data-bbox="884 285 1713 440"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>1</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table> d. Calls above ROUTINE- Preemptive Search  <table border="1" data-bbox="884 513 1713 667"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>3</td> <td>3</td> </tr> <tr> <td>1</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>NA</td> <td>3</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table> <b>Notes:</b>	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	NA	NA	NA	2	0	NA	NA	NA	3	0	NA	NA	NA	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	3	3	1	0	3	NA	NA	2	0	NA	3	NA	3	0	3	NA	NA	
	RCD In		'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out																																															
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2	0	NA	3	NA																																																	
3	0	3	NA	NA																																																	
F	<b>Routing</b>	<b>TS &amp; MFS:</b> 1. Assign a direct route and nine alternate routes in the switch under test (each route with one trunk group) 2. Assign a route (direct or alternate) with a minimum of four trunk groups in the switch under test.  <b>EOS:</b> 1. Assign a direct route and five alternate routes in the switch under test (each route with one trunk group) 2. Assign a route (direct or alternate) with a minimum of one trunk group per route and up to 96 members per trunk group in the switch under test.  <b>Notes:</b>	1. Switch allows assignment of direct route with nine alternate routes Y/N 2. Switch allows assignment of minimum of four trunk groups per route Y/N  1. Switch allows assignment of direct route with five alternate routes Y/N 2. Switch allows assignment of minimum of one trunk group per route and 96 members per trunk group. Y/N																																																		
	<b>Requirement:</b> TS, MFS, & EOS  Verify in software of the switch under test the following primary route and alternate route capacities		<b>Reference:</b> GSCR Sect. 4.2																																																		

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
G	<b>Trunk Groups</b>		1. Busy-out all trunks on the T1 SS7 from the SUT maintenance terminal.	1. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N
	Requirement: TS, MFS, & EOS	Reference: GSCR Sect. 2.5.5& 2.5.6	2. Break the SS7 span for 60 sec. then restore. Monitor the status from the DN maintenance terminal 3. Repeat the procedure from the DN  4. Busy-out one trunk. Idle the trunk on the T1 from the DN maintenance terminal Monitor the status from the ON maintenance terminal  5. Repeat with 2, 4, 8, 16, 24 trunks busied/idled 6. Busy-out one trunk then idle on the T1 from the ON maintenance terminal  7. Monitor the status from the ON maintenance terminal Repeat with 2, 4, 8, 16, 24 trunks busied /idled.	2. After the link is restored busy-outs remain acknowledged. Y/N 3. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N. After the link is restored busy-outs remain acknowledged. Y/N 4. The SUT Maintenance Terminal immediately acknowledges a remote busy-out applied from the DN maintenance terminal Y/N The SUT Maintenance Terminal immediately acknowledges an idle applied from the DN maintenance terminal. Y/N 5. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N 6. The DN Maintenance Terminal immediately acknowledges a remote busy-out applied from the SUT maintenance terminal Y/N The DN Maintenance Terminal immediately acknowledges an idle applied from the SUT maintenance terminal. Y/N 7. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N
			<b>Notes:</b>	

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)			
H	<b>CAS to CCS Interworking</b>					
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.10				
	Configure SUT with an analog users and BRI instrument. Configure the Destination Node (DN) with analog and BRI instruments. Configure tandem node between SUT and DN with T1 SS7, T1 CAS, E1 CAS, T1 PRI and E1 PRI between each node.  Note. Speech may also be 3.1K bearer capability.					
	<b>Line-to trunk</b>					
	<b>Origin</b>	<b>Route Digit</b>	<b>Bearer Capability</b>	<b>Termination</b>	<b>Route Digit</b>	<b>Bearer capability</b>
	Analog	0/5	N/A	T1 SS7	0/5	Speech
	Analog	1/6	N/A	T1 SS7	1/6	Speech
	BRI	0/5	Speech	T1 SS7	0/5	Speech
	BRI	1/6	Speech	T1 SS7	1/6	Speech
	BRI	0/5	56K CMD	T1 SS7	1/6	56K CMD
	BRI	0/5	64K CMD	T1 SS7	1/6	64K CMD
	BRI	1/6	56K CMD	T1 SS7	1/6	56K CMD
	BRI	1/6	64K CMD	T1 SS7	1/6	64K CMD
	<b>Trunk-to-Line</b>					
	T1 SS7	0/5	Speech	Analog	N/A	N/A
	T1 SS7	1/6	Speech	Analog	N/A	N/A
	T1 SS7	0/5	Speech	BRI	N/A	Speech
	T1 SS7	1/6	Speech	BRI	N/A	Speech
	T1 SS7	0/5	56K CMD	BRI	N/A	56K CMD
	T1 SS7	0/5	64K CMD	BRI	N/A	64K CMD
	T1 SS7	1/6	56K CMD	BRI	N/A	56K CMD
	T1 SS7	1/6	64K CMD	BRI	N/A	64K CMD
	<b>Trunk-to-Trunk</b>					
	T1 SS7	1/6	56/64K CMD	T1 CAS	1/6	N/A
	T1 SS7	1/6	Speech	T1 CAS	1/6	N/A
	T1 SS7	1/6	56/64K CMD	E1 CAS	1/6	N/A
	T1 SS7	1/6	Speech	E1 CAS	1/6	N/A
	T1 SS7	0/5	Speech	E1 CAS	0/5	N/A
	T1 SS7	0/5	56/64K CMD	E1 CAS	1/6	N/A
	T1 SS7	0/5	Speech	T1 CAS	0/5	N/A
	T1 SS7	0/5	56/64K CMD	T1 CAS	1/6	N/A
	T1 SS7	1/6	56/64K CMD	T1/E1 PRI	N/A	56/64K CMD
	T1 SS7	1/6	Speech	T1/E1 PRI	N/A	Speech
T1 SS7	0/5	56/64K CMD	T1/E1 PRI	N/A	56/64K CMD	
T1 SS7	0/5	Speech	T1/E1 PRI	N/A	Speech	
<b>Notes:</b>						

**Table E-2.3.1. T1 SS7 T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																	
I	<b>PCM-24/PCM-30</b>	1. Place a call from ON subscriber to DN subscriber and verify mu-law to a-law conversion.  <b>Notes:</b>	Mu-law to a-law conversion via T1 SS& link to:																	
	<table border="1"> <thead> <tr> <th></th> <th>E1 SS7</th> <th>E1 PRI</th> <th>E1 CAS</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td></td> <td></td> <td></td> </tr> <tr> <td>BRI</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Digital</td> <td></td> <td></td> <td></td> </tr> <tr> <td>VoIP</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			E1 SS7	E1 PRI	E1 CAS	Analog				BRI				Digital				VoIP	
	E1 SS7	E1 PRI	E1 CAS																	
Analog																				
BRI																				
Digital																				
VoIP																				
	<b>Requirement:</b> TS, MFS, & EOS  <b>Reference:</b> GSCR Sect. 7.3  Configure SUT as a tandem node with incoming (T1 SS7) link and outgoing (E1 SS7, E1 PRI and E1 CAS) links between origination node and destination node..																			
J	<b>DID</b>	1. Place ROUTINE call from ON1 to P1. 2. Place ROUTINE call from ON2 to P2.  3. Place PRIORITY call from ON3 to P1.  <b>Notes:</b>	1. Call completes. Y/N																	
	<b>Requirement:</b> MFS & EOS  <b>Reference:</b> GSCR 2.3.2  Configure the SUT to have a PBX1 connected to it with DID trunks. Configure 2 subscribers, P1 and P2 on the PBX. P2 has a restriction not to receive terminating calls. Configure ON with 3 subscribers ON1, ON2, & ON 3.		2. Reroute to announcement, reorder tone or attendant. Y/N 3. ON1 and P1 receive PNT. Y/N ON3-P1call completes. Y/N																	

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																	
A	<b>MOS</b>	1. Place 2 calls between SUT subscriber and DN subscriber such that the calls traverse a T1 SS7 link. Record the average MOS for each set of 10 calls.  <b>Notes:</b>	Average MOS:																																																	
	<b>Requirement:</b> TS, MFS & EOS  <b>Reference:</b> CJCSI 6215.01B  Configure a T1 SS7 between SUT and DN. Provision one subscriber of each type (analog & BRI). If digital and VoIP phones are supported by the SUT configure one each off of the SUT and DN..		<table border="1"> <thead> <tr> <th>Origination</th> <th>Termination</th> <th>Ave MOS of 2 calls</th> </tr> </thead> <tbody> <tr><td>Analog</td><td>Analog</td><td></td></tr> <tr><td>Analog</td><td>BRI</td><td></td></tr> <tr><td>Analog</td><td>Digital</td><td></td></tr> <tr><td>Analog</td><td>VoIP</td><td></td></tr> <tr><td>BRI</td><td>Analog</td><td></td></tr> <tr><td>BRI</td><td>BRI</td><td></td></tr> <tr><td>BRI</td><td>Digital</td><td></td></tr> <tr><td>BRI</td><td>VoIP</td><td></td></tr> <tr><td>Digital</td><td>Analog</td><td></td></tr> <tr><td>Digital</td><td>BRI</td><td></td></tr> <tr><td>Digital</td><td>Digital</td><td></td></tr> <tr><td>Digital</td><td>VoIP</td><td></td></tr> <tr><td>VoIP</td><td>Analog</td><td></td></tr> <tr><td>VoIP</td><td>BRI</td><td></td></tr> <tr><td>VoIP</td><td>Digital</td><td></td></tr> <tr><td>VoIP</td><td>VoIP</td><td></td></tr> </tbody> </table>	Origination	Termination	Ave MOS of 2 calls	Analog	Analog		Analog	BRI		Analog	Digital		Analog	VoIP		BRI	Analog		BRI	BRI		BRI	Digital		BRI	VoIP		Digital	Analog		Digital	BRI		Digital	Digital		Digital	VoIP		VoIP	Analog		VoIP	BRI		VoIP	Digital		VoIP
Origination	Termination	Ave MOS of 2 calls																																																		
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VoIP	BRI																																																			
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**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																																																															
B	<b>MLPP Precedence Parameters</b> <table border="1" data-bbox="163 315 772 367"> <tr> <td data-bbox="163 315 485 367">Requirement: TS, MFS, &amp; EOS</td> <td data-bbox="485 315 772 367">Reference: GSCR Sect. 3.9.4 &amp; 3.9.6</td> </tr> </table>	Requirement: TS, MFS, & EOS	Reference: GSCR Sect. 3.9.4 & 3.9.6	<p>1. Verify T1 SS7 IAM meets following:</p> <table border="1" data-bbox="869 285 1913 667"> <thead> <tr> <th>Bits</th> <th>8</th> <th>7</th> <th>6</th> <th>5</th> <th>4</th> <th>3</th> <th>2</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>Octet 1</td> <td>Spare</td> <td colspan="2">LFB</td> <td>Spare</td> <td colspan="4">Precedence Level</td> </tr> <tr> <td>2</td> <td colspan="4">1<sup>st</sup> Network Identity Digit</td> <td colspan="4">2<sup>nd</sup> Network Identity Digit</td> </tr> <tr> <td>3</td> <td colspan="4">3<sup>rd</sup> Network Identity Digit</td> <td colspan="4">4<sup>th</sup> Network Identity Digit</td> </tr> <tr> <td>4</td> <td colspan="8">Most Significant Bit (MLPP Service Domain 1<sup>st</sup> Octet)</td> </tr> <tr> <td>5</td> <td colspan="8">MLPP Service Domain (2<sup>nd</sup> Octet)</td> </tr> <tr> <td>6</td> <td colspan="8">Least Significant Bit (MLPP Service Domain 3<sup>rd</sup> Octet)</td> </tr> </tbody> </table> <p>Where,</p> <table border="1" data-bbox="1026 708 1751 1032"> <thead> <tr> <th>PRECEDENCE BITS</th> <th>4</th> <th>3</th> <th>2</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>FLASH OVERRIDE (0)</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>FLASH (1)</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>IMMEDIATE (2)</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> </tr> <tr> <td>PRIORITY (3)</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>ROUTINE (4)</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>2. Verify IAM called party number format is X [Y] (KXX) KXX-XXXX.</p> <p>3. Verify following TCAP parameters supported:</p> <ul style="list-style-type: none"> <li>a. Bearer capability. <ul style="list-style-type: none"> <li>00000001 (bearer capability is not supported) Y/N</li> <li>00000010 (bearer capability is supported) Y/N</li> <li>00000011 (bearer capability is not authorized) Y/N</li> <li>00000100 (bearer capability is not presently available) Y/N</li> <li>00000101 (bearer capability is not implemented) Y/N</li> </ul> </li> <li>b. Circuit Identification Code (CIC) of 2 octets. Y/N</li> <li>c. Call reference parameter is 6 octets. Y/N</li> </ul> <p><b>Notes:</b></p>	Bits	8	7	6	5	4	3	2	1	Octet 1	Spare	LFB		Spare	Precedence Level				2	1 <sup>st</sup> Network Identity Digit				2 <sup>nd</sup> Network Identity Digit				3	3 <sup>rd</sup> Network Identity Digit				4 <sup>th</sup> Network Identity Digit				4	Most Significant Bit (MLPP Service Domain 1 <sup>st</sup> Octet)								5	MLPP Service Domain (2 <sup>nd</sup> Octet)								6	Least Significant Bit (MLPP Service Domain 3 <sup>rd</sup> Octet)								PRECEDENCE BITS	4	3	2	1	FLASH OVERRIDE (0)	0	0	0	0	FLASH (1)	0	0	0	1	IMMEDIATE (2)	0	0	1	0	PRIORITY (3)	0	0	1	1	ROUTINE (4)	0	1	0	0	<p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p>
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ROUTINE (4)	0	1	0	0																																																																																														



**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C c o n t i n u e d	<b>MLPP Preempt for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call in ringing state. Y/N 2. Call completes. Y/N 3. SUT sends release message with cause value 9. Y/N ON1 receives PNT. Y/N SUT sends IAM with precedence. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N										
	<table border="1"> <tr> <td data-bbox="163 316 472 365"><b>Requirement:</b> TS, MFS &amp; EOS</td> <td data-bbox="472 316 772 365"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS & EOS	<b>Reference:</b> GSCR Sect. 3										
<b>Requirement:</b> TS, MFS & EOS	<b>Reference:</b> GSCR Sect. 3												
	Configure a T1 SS7 with T1.619a trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)	4. Hang up DN2-ON2 call. Redial DN2-ON2 at PRIORITY; don't answer. 5. Place a FLASH call from DN1 to ON2.  6. Hang up ON3 to DN3. Redial at IMMEDIATE; don't answer. 7. Place a FLASH OVERRIDE call from ON1 to DN2.  8. Hang up DN1 to ON2. Redial at FLASH; don't answer. 9. Place a FLASH OVERRIDE call from DN3 to ON3.  10. Place a FLASH OVERRIDE call from ON2 to DN1.  11. Place all instruments on hook. 12. Repeat for all phone types	4. Call in ringing state. Y/N 5. DN sends release message with cause value 9. Y/N DN2 receive PNT. Y/N DN sends IAM message with precedence. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 6. Call in ringing state. Y/N 7. SUT sends release message with cause value 9. Y/N ON3 receives PNT. Y/N SUT sends IAM message with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 8. Call in ringing state. Y/N 9. DN sends release message with cause value 9. Y/N DN1 receive PNT. Y/N DN sends IAM with precedence. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 10. DN sends release message with cause value 46. Y/N ON2 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" data-bbox="1430 1047 1955 1279"> <thead> <tr> <th colspan="2">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td></td> </tr> <tr> <td>BRI</td> <td></td> </tr> <tr> <td>Digital</td> <td></td> </tr> <tr> <td>VoIP</td> <td></td> </tr> </tbody> </table>	Preempt for Reuse (Answered)		Analog		BRI		Digital		VoIP	
Preempt for Reuse (Answered)													
Analog													
BRI													
Digital													
VoIP													
		<b>Notes:</b>											

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from ON2 to DN1.	1. Call completes. Y/N 2. SUT sends release message with cause value 8. Y/N ON1-DN1 receive PNT. Y/N SUT sends IAM with precedence. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N										
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3										
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3											
	Same as above.	3. Place an IMMEDIATE call from DN2 to ON2.  4. Place a FLASH call from ON1 to DN2.  6. Place a FLASH OVERRIDE call from DN1 to ON1.  7. Place a FLASH OVERRIDE call from ON2 to DN2. 8. Place FLASH OVERRIDE call from DN3 to ON3  9. Place all instruments on hook. 10. Repeat for all phone types.	3. DN sends release message with cause value 8. Y/N ON2-DN1 receive PNT. Y/N DN sends IAM message with precedence. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N 4. SUT sends release message with cause value 8. Y/N DN2-ON2 receive PNT. Y/N SUT sends setup message with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N 6. DN sends release message with cause value 8. Y/N ON1-DN2 receive PNT. Y/N DN sends IAM with precedence. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N 7. Call completes. Y/N 8. SUT sends release message with cause 46. Y/N DN3 receives BPA. Y/N 9. Calls end. Y/N 10. <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <th colspan="2" style="text-align: left;">Preempt for Reuse (Answered)</th> </tr> <tr> <td style="width: 20%;"><b>Analog</b></td> <td></td> </tr> <tr> <td><b>BRI</b></td> <td></td> </tr> <tr> <td><b>Digital</b></td> <td></td> </tr> <tr> <td><b>VoIP</b></td> <td></td> </tr> </table>	Preempt for Reuse (Answered)		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
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	<b>VoIP</b>												
		<b>Notes:</b>											

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from ON2 to DN1.	1. Call in ringing state. Y/N 2. SUT sends release message with cause value 8. Y/N ON1 receives PNT. Y/N SUT sends IAM with precedence. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N										
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3										
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3											
	Same as above.	3. Hang up ON2 to DN1 call. Redial at PRIORITY; don't answer. 4. Place an IMMEDIATE call from DN2 to ON2.	3. Call in ringing state. Y/N 4. DN sends release message with cause value 8. Y/N ON2-DN1 receive PNT. Y/N DN sends setup message with precedence. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N										
		5. Hang up DN2 to ON2. Redial at IMMEDIATE; don't answer. 6. Place a FLASH call from ON1 to DN2.	5. Call in ringing state. Y/N 6. SUT sends release message with cause value 8. Y/N DN2 receives PNT. Y/N SUT sends IAM with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N										
		7. Hang up ON1 to DN2 call. Redial at FLASH; don't answer. 8. Place a FLASH OVERRIDE call from DN1 to ON1.	7. Call in ringing state. Y/N 8. DN sends release message with cause value 8. Y/N ON1 receives PNT. Y/N DN sends IAN with precedence. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N										
		9. Place a FLASH OVERRIDE call from ON2 to DN2. 10. Place FLASH OVERRIDE call from DN3 to ON3	9. Call completes. Y/N 10. SUT sends release message with cause 46. Y/N DN3 receives BPA. Y/N										
		11. Place all instruments on hook. 12. Repeat for all phone types.	11. Calls end. Y/N 12.										
			<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"><b>Preempt for Reuse (Answered)</b></td> </tr> <tr> <td><b>Analog</b></td> <td></td> </tr> <tr> <td><b>BRI</b></td> <td></td> </tr> <tr> <td><b>Digital</b></td> <td></td> </tr> <tr> <td><b>VoIP</b></td> <td></td> </tr> </table>		<b>Preempt for Reuse (Answered)</b>	<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
			<b>Preempt for Reuse (Answered)</b>										
		<b>Analog</b>											
		<b>BRI</b>											
<b>Digital</b>													
<b>VoIP</b>													
<b>Notes:</b>													

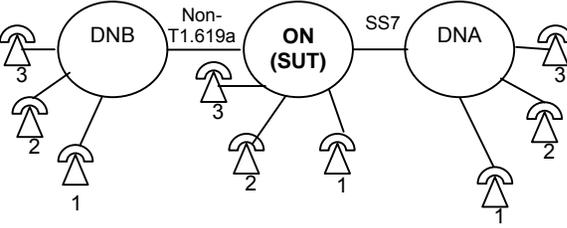
**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
D	<b>MLPP Trunk selection</b>	<b>Hunting:</b> 1. Place a ROUTINE data call between SUT and DN. 2. Place a PRIORITY data call between SUT and DN. 3. Place an IMMEDIATE voice call. Hang up all calls. 4. Place a ROUTINE data call 5. Place ROUTINE voice call 6. Place IMMEDIATE data call.  <b>Notes:</b>	1. Call completes. Y/N 2. Call completes. Y/N 3. Routine data call preempted; PNT. Y/N		
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> </table>		<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3	4. Call completes. Y/N 5. Call completes. Y/N 6. Data call preempted. Y/N
	<b>Requirement:</b> TS, MFS, & EOS		<b>Reference:</b> GSCR Sect. 3.2.3		
Configure 1T1 SS7s between SUT and Destination Node (DN). On the T1 SS7, classmark for voice and data, busy all but four trunks.					
E	<b>MLPP Method 1</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY. 5. Place a call from ON5 to DN5 at ROUTINE. 6. Place a call from ON6 to DN6 at PRIORITY. 7. Place a ROUTINE call from ON7 to DN7 at ROUTINE. 8. Hang up ON5 to DN5 call 9. Place a call from ON7 to DN7 at IMMEDIATE. 10 Place a call from ON5 to DN5 at IMMEDIATE.  11. Place a call from ON1 to DN1 at FLASH  12. Place a call from ON2 to DN2 at FLASH OVERRIDE.  13. Place a call from ON5 to DN5 at IMMEDIATE.  14. Place a call from ON3 to DN3 at FLASH.  15. Place a call from ON4 to DN4 at IMMEDIATE.  16. Place a call from ON6 to DN6 at IMMEDIATE  <b>Notes:</b>	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. Call completes over alternate route 1. Y/N 5. Call completes over alternate route 2. Y/N 6. Call completes over alternate route 2. Y/N 7. Call receives T120 busy tone. Y/N 8. Trunk is idled on alternate route 2. Y/N 9. Call completes over alternate route 2. Y/N 10. ON1 and DN1 receive preemption notification. Call completes over direct route. Y/N 11. ON2 and DN2 receive preemption notification. Call completes over direct route. Y/N 12. ON5 and DN5 receive preemption notification. Call completes over direct route. Y/N 13. ON3 and DN3 receive preemption notification. Call completes over alternate route 1. Y/N 14. ON4 and DN4 receive preemption notification. Call completes over alternate route 1. Y/N 15. ON6 and DN6 receive preemption notification. Call completes over alternate route 2. Y/N 16 ON6 receives a BPA Y/N		
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 3.2.3.1.2.1</td> </tr> </table>		<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1	
	<b>Requirement:</b> TS, MFS, & EOS		<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1		
Configure a T1 SS7 between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes. <b>Provision 7 subscribers off of each node (ON1-ON7, DN1-DN7)</b>					

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
F	<b>MLPP Method 2</b>	1. Place a call from ON to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N		
	<table border="1"> <tr> <td data-bbox="170 318 485 362"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td data-bbox="491 318 772 362"><b>Reference:</b> GSCR Sect. 3.2.3.1.2.2</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2	5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.	5. Call completes over alternate route 1. Y/N 6. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2			
	Configure a T1 SS7 between SUT and Destination Node (DN). On the T1 SS7, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.	7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.  10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.	7. Call completes over alternate route 2. Y/N 8. Call completes over alternate route 2. Y/N 9. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 2. Y/N 10. ON3 receives a BPA. Y/N 11. Call receives T60 busy tone. Y/N		
<b>Notes:</b>					
G	<b>MLPP Precedence Call Diversion</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N		
	<table border="1"> <tr> <td data-bbox="170 794 485 837"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td data-bbox="491 794 772 837"><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3	5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.	5. Call completes over alternate route 1. Y/N 6. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3			
	Configure a T1 SS7 between SUT and Destination Node (DN). On the T1 SS7, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.	7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.  10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.	7. Call completes over alternate route 2. Y/N 8. Call completes over alternate route 2. Y/N 9. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 2. Y/N 10. ON3 receives a BPA. Y/N 11. Call receives T60 busy tone. Y/N		
<b>Notes:</b>					

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																
H	<p><b>MLPP ANSI T1.619a and Non-T1.619a Interaction</b></p> <p><b>Requirement:</b> TS, MFS, &amp; EOS</p> <p><b>Reference:</b> GSCR Sect. 3.7.6</p> <p>Configure a T1 SS7 between ON (SUT) and DN (DNA). Configure a non-T1.619a link between ON and DNB. Busy all but one trunk on both links. Provision 3 subscribers off of each node. Assign ON1, DNA1, and DNB1 with a Service Domain of 000000. Provision ON2, DNA2 and DNB2 with service domain FFFFFFFF in hexadecimal. (16777215 in Decimal). Provision ON3, DNA3 and DNB3 with no service domain. Provision the SUT &amp; DNs to have service domain 0 as the default. Use SS7 protocol analyzer to monitor the T1 SS7 messages on the signaling link.</p> 	<ol style="list-style-type: none"> <li>Verify SUT is capable of domain 16777215.</li> <li>Verify like service domains interaction: <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA1. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON2 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from DNA3 to ON3. Hang up.</li> </ol> </li> <li>Verify unlike domains interaction: <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA2. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA3. Hang up.</li> <li>Place ROUTINE call from ON3 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON3 to DNA2. Hang up.</li> </ol> </li> <li>Service domain connections: <ol style="list-style-type: none"> <li>Place a ROUTINE call from ON2 to ON1.</li> <li>Place a PRIORITY call from DNA1 to ON1. Hang up.</li> <li>Place a ROUTINE call from DNB1 to DNA1.</li> <li>Place a FLASH call from ON1 to DNA1. Hang up.</li> <li>Place a ROUTINE call from DNB2 to ON1.</li> <li>Place an IMMEDIATE call from DNA1 to ON1. Hang up.</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>	<ol style="list-style-type: none"> <li>SUT capable of domain 16777215. Y/N</li> <li>Like domains: <ol style="list-style-type: none"> <li>Call completes. Y/N</li> </ol> </li> <li>Unlike domains. <ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> </ol> </li> <li>Service Domain connections: <ol style="list-style-type: none"> <li>Call completes; connection domain is FFFFFFFF. Y/N</li> <li>DN1 gets BPA. Y/N</li> <li>Call completes; connection domain is 0. Y/N</li> <li>Call preempts; DNB1 to DNA1 link. Y/N</li> <li>Call completes. Domain is 0. Y/N</li> <li>Call preempts DNB2 to ON1 call. Y/N</li> </ol> </li> <li>Repeat for all phone types.</li> </ol> <table border="1" data-bbox="1428 828 1995 1274"> <thead> <tr> <th>Phone type</th> <th>Non T1.619a Link</th> <th>Interaction Correct</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td rowspan="3">T1 CAS</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td rowspan="3">E1 CAS</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td rowspan="3">T1 PRI (non-T1.619a)</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td rowspan="3">E1 PRI (non-Q.955.3)</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td></td> <td>Y/N</td> </tr> </tbody> </table> <p><b>Notes:</b></p>	Phone type	Non T1.619a Link	Interaction Correct	Analog	T1 CAS	Y/N	BRI	Y/N	Digital	Y/N	VoIP	E1 CAS	Y/N	Analog	Y/N	BRI	Y/N	Digital	T1 PRI (non-T1.619a)	Y/N	VoIP	Y/N	Analog	E1 PRI (non-Q.955.3)	Y/N	BRI	Y/N	Digital	Y/N	VoIP		Y/N
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**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																						
I	<b>MLPP Precedence Call Waiting</b>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:                             <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accepts waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook</li> </ol> </li> <li>2. Busy with equal precedence:                             <ol style="list-style-type: none"> <li>a. Place a PRIORITY call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accept waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook.</li> </ol> </li> <li>3. Busy with lower precedence:                             <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1. Place ON1 on hook.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1. Place ON2 on hook.</li> <li>d. Place a FLASH call from ON2 to DN1. Place ON1 on hook.</li> <li>e. Place a FLASH OVERRIDE call from ON1 to DN1. Place all instruments on hook.</li> </ol> </li> <li>4. No answer:                             <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Don't answer ON2 call.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:                             <table border="0" style="width: 100%;"> <tr><td>a. Call completes.</td><td align="right">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td align="right">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td align="right">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td align="right">Y/N</td></tr> <tr><td>e. Calls end.</td><td align="right">Y/N</td></tr> </table> </li> <li>2. Busy with equal precedence.                             <table border="0" style="width: 100%;"> <tr><td>a. Call completes.</td><td align="right">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td align="right">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td align="right">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td align="right">Y/N</td></tr> <tr><td>e. Calls end.</td><td align="right">Y/N</td></tr> </table> </li> <li>3. Busy with lower precedence.                             <table border="0" style="width: 100%;"> <tr><td>a. Call completes.</td><td align="right">Y/N</td></tr> <tr><td>b. DN1 doesn't receive precedence call waiting tone.</td><td align="right">Y/N</td></tr> <tr><td>c. DN1 does not receive precedence call waiting tone. Call complete and preempted ROUTINE call.</td><td align="right">Y/N</td></tr> <tr><td>d. DN1 does not receive precedence call waiting tone. Call complete and preempted PRIORITY call.</td><td align="right">Y/N</td></tr> <tr><td>e. DN1 does not receive precedence call waiting tone. Call complete and preempted IMMEDIATE call.</td><td align="right">Y/N</td></tr> <tr><td>f. DN1 does not receive precedence call waiting tone. Call complete and preempted FLASH call.</td><td align="right">Y/N</td></tr> </table> </li> <li>4. No answer:                             <table border="0" style="width: 100%;"> <tr><td>a. Call completes.</td><td align="right">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td align="right">Y/N</td></tr> <tr><td>c. ON2 call diverts to alternate DN# within 15-45 sec.</td><td align="right">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 doesn't receive precedence call waiting tone.	Y/N	c. DN1 does not receive precedence call waiting tone. Call complete and preempted ROUTINE call.	Y/N	d. DN1 does not receive precedence call waiting tone. Call complete and preempted PRIORITY call.	Y/N	e. DN1 does not receive precedence call waiting tone. Call complete and preempted IMMEDIATE call.	Y/N	f. DN1 does not receive precedence call waiting tone. Call complete and preempted FLASH call.	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 call diverts to alternate DN# within 15-45 sec.	Y/N
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b. DN1 doesn't receive precedence call waiting tone.	Y/N																																								
c. DN1 does not receive precedence call waiting tone. Call complete and preempted ROUTINE call.	Y/N																																								
d. DN1 does not receive precedence call waiting tone. Call complete and preempted PRIORITY call.	Y/N																																								
e. DN1 does not receive precedence call waiting tone. Call complete and preempted IMMEDIATE call.	Y/N																																								
f. DN1 does not receive precedence call waiting tone. Call complete and preempted FLASH call.	Y/N																																								
a. Call completes.	Y/N																																								
b. DN1 receives precedence call waiting tone.	Y/N																																								
c. ON2 call diverts to alternate DN# within 15-45 sec.	Y/N																																								
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> Conditional</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.8.1</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.1	<b>Notes:</b>																																						
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.1																																								
J	<b>MLPP Call Forwarding</b>	<ol style="list-style-type: none"> <li>1. Call forwarding busy higher incoming precedence.                             <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1.</li> <li>d. Place a FLASH call from ON2 to DN1.</li> <li>e. Place a FLASH OVERRIDE call from ONA to DNA.</li> <li>f. Place all instruments on hook.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Call forward busy higher incoming precedence.                             <table border="0" style="width: 100%;"> <tr><td>a. Call completes.</td><td align="right">Y/N</td></tr> <tr><td>b. Call Forward Busy not invoked.</td><td align="right">Y/N</td></tr> <tr><td>c. Call Forward Busy not invoked. Call complete and preempted ROUTINE call.</td><td align="right">Y/N</td></tr> <tr><td>d. Call Forward Busy not invoked. Call complete and preempted PRIORITY call.</td><td align="right">Y/N</td></tr> <tr><td>e. Call Forward Busy not invoked. Call complete and preempted IMMEDIATE call.</td><td align="right">Y/N</td></tr> <tr><td>f. Call Forward Busy not invoked. Call complete and preempted FLASH call.</td><td align="right">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. Call Forward Busy not invoked.	Y/N	c. Call Forward Busy not invoked. Call complete and preempted ROUTINE call.	Y/N	d. Call Forward Busy not invoked. Call complete and preempted PRIORITY call.	Y/N	e. Call Forward Busy not invoked. Call complete and preempted IMMEDIATE call.	Y/N	f. Call Forward Busy not invoked. Call complete and preempted FLASH call.	Y/N																										
	a. Call completes.			Y/N																																					
b. Call Forward Busy not invoked.	Y/N																																								
c. Call Forward Busy not invoked. Call complete and preempted ROUTINE call.	Y/N																																								
d. Call Forward Busy not invoked. Call complete and preempted PRIORITY call.	Y/N																																								
e. Call Forward Busy not invoked. Call complete and preempted IMMEDIATE call.	Y/N																																								
f. Call Forward Busy not invoked. Call complete and preempted FLASH call.	Y/N																																								
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> Conditional</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	<b>Notes:</b>																																						
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2																																								
Configure a T1 SS7 between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Two instrument are required on the SUT (DN1, DN2). Provision call forwarding: DN1 call forward to DN2.																																									

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
J C o n t i n u e d	<b>MLPP</b> <b>Call Forwarding (continued)</b>	2. Call forwarding busy equal or lower precedence. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN1. c. Answer DN2. d. Place all instruments on hook.	2. Call forward busy equal or lower precedence. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N	
	<table border="1"> <tr> <td data-bbox="170 315 485 363"><b>Requirement:</b> Conditional</td> <td data-bbox="491 315 772 363"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	3. Call forwarding busy non-preemptable. a. Place a ROUTINE call from ON1 to DN3. b. Place a PRIORITY call from ON2 to DN3. c. Answer DN2. d. Place all instruments on hook. e. Place a ROUTINE call from ON1 to DN3. f. Place a ROUTINE call from ON2 to DN3. g. Answer DNB. h. Place all instruments on hook. i. Place a PRIORITY call from ON1 to DN3. j. Place a PRIORITY call from ON2 to DN3. k. Answer DN2. l. Place all instruments on hook. m. Place a PRIORITY call from ON1 to DN3. n. Place a ROUTINE call from ON2 to DN3. o. Answer DN2. p. Place all instruments on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2			
Configure a T1 SS7 between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.	4. Call forwarding busy precedence level preserved. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN2. c. Place a PRIORITY call from ON3 to DN1. d. Place all instruments on hook. e. Place a PRIORITY call from ON1 to DN1. f. Place a PRIORITY call from ON2 to DN1. g. Allow call to ring-no-answer on DN2. h. Answer attendant console. i. Place all instruments on hook.	4. Call forward Precedence level preserved. a. Call completes. Y/N b. Call completes. Y/N c. Call forwards to DN2. Y/N ON3 receives precedence ring-back Y/N ON2 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing. Y/N Call complete and preempted ROUTINE call. Y/N d. Calls end. Y/N e. Call completes. Y/N f. Call forwards to DN2. Y/N g. Call routes to attendant console. Y/N h. ON2 to attendant console call completes. Y/N i. Calls end. Y/N		
	<b>Notes:</b>			

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
J  C o n t i n u e d	<b>MLPP Call Forwarding (continued)</b>		5. Call forwarding –no reply at called station. a. Place a ROUTINE call from ON1 to DN1 and allow call to ring-no-answer on DN1. b. Answer DN. c. Place all instruments on hook. d. Place a PRIORITY call from ON1 to DN2. e. Place an IMMEDIATE call from ON2 to DN1 and allow call to ring-no-answer on DN1.  f. Place all instruments on hook. g. Place a PRIORITY call from ON1 to DN1 and allow call to ring-no-answer on DN1. h. Allow call to ring-no-answer on DN2. i. Answer attendant console. j. Place all instruments on hook.	5. Call forwarding –no reply at called station. a. Call forwards to DN2. Y/N b. ON1 to DN2 call completes. Y/N c. Call ends. Y/N d. Call completes. Y/N e. Call forwards to DN2. Y/N ON2 receives precedence ring-back. Y/N ON1 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing Y/N Call complete and preempted PRIORITY call Y/N f. Call ends. Y/N g. Call forwards to DN2. Y/N  h. Call routes to attendant console. Y/N i. ON1 to attendant console call completes. Y/N j. Calls end. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2		
K	<b>MLPP Call Transfer</b>		1. Call transfer (normal) interaction. a. Place a PRIORITY call from ON1 to DN1. b. DNA normal call transfers ON1 to DN2. c. Answer DN2. DN1 Hangs up d. Place a ROUTINE call from ON2 to DN2. e. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. g. Place ON2 on hook. h. Place an IMMEDIATE call from ON2 to DN2.  i. Place all instruments on hook. j. Place a PRIORITY call from ON1 to DN1. k. DNA normal call transfers ON1 to DN2.  l. DNA hangs up before DN2 answers. m. Answer DN2. n. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. o. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. p. Place an IMMEDIATE call from ON2 to DN2.  q. Place all instruments on hook.	1. Call transfer (normal) interaction. a. Call completes. Y/N b. Normal transfer completes. Y/N c. ON1 to DN2 call completes. Y/N d. ON2 receives standard busy tone. Y/N e. Call ends. Y/N f. ON2 receives a BPA Y/N g. Call ends. Y/N h. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N i. Call ends. Y/N j. Call completes. Y/N k. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N l. ON1 receives a precedence ringback. Y/N m. ON1 to DN2 call completes. Y/N n. ON2 receives standard busy tone. Y/N  o. ON2 receives a BPA Y/N  p. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N q. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		
<b>Notes:</b>				

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
K C o n t i n u e d	<b>MLPP Call Transfer</b>		2. Call transfer (explicit) interaction. a. Place a PRIORITY call from DN1 to ON1. b. Place ON1 on hold. c. Call transfer from DN1 to DN2. d. Answer DN2. DN1 Hangs up e. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. g. Place an IMMEDIATE call from ON2 to DN2.  h. Place all instruments on hook. i. Place a PRIORITY call from DN1 to ON1. j. DNA call transfers ON1 to DN2. DNA hangs up before DN2 answers.  k. Answer DN2. l. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. m. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. n. Place an IMMEDIATE call from ON2 to DN2.  o. Place all instruments on hook.	2. Call transfer (explicit) interaction. a. Call completes. Y/N b. ON1 on hold. Y/N c. Explicit transfer completes. Y/N d. ON1 to DN2 call completes. Y/N e. ON2 receives standard busy tone. Y/N  f. ON2 receives a BPA Y/N  g. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N h. Call ends. Y/N i. Call completes. Y/N j. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N ON1 receives a precedence ringback. Y/N k. ON1 to DN2 call completes. Y/N l. ON2 receives standard busy tone. Y/N  m. ON2 receives a BPA Y/N  n. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N o. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		
L	<b>MLPP Call Hold</b>		1. Place a ROUTINE call from ON1 to DN1. 2. DNA place ON1 on hold and DN1 go on hook. 3. DNA goes off hook and take ON1 off hold. 4. Place all instruments on hook. 5. Place a ROUTINE call from ON1 to DN1. 6. DNA places ON1 on hold. 7. Place a PRIORITY call from ON2 to ON1.  8. Place all instruments on hook. 9. Place a ROUTINE call from ON1 to DN1. 10. DN1 hook flashes and places ON1 on hold.	1. Call completes. Y/N 2. ON1 on hold. Y/N 3. ON1 to DN1 call completes. Y/N 4. Call ends. Y/N 5. Call completes. Y/N 6. ON1 on hold. Y/N 7. ON1 receives preemption notification Y/N DN1 receives PNT only if DN1 attempts to retrieve ON1 while ON1 is receiving PNT. Y/N Call complete and preempted ON1 held call Y/N 8. Call ends. Y/N 9. Call completes. Y/N 10. ON1 on hold. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4		
<b>Notes:</b>				

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
L C o n t i n u e d	<b>MLPP Call Hold (continued)</b>	11. Place a ROUTINE call from DN1 to ON2. 12. Place a PRIORITY call from DN2 to DN1.	11. Call completes. Y/N 12. DN1, ON1 and ON2 receive PNT. Y/N DN2 receives precedence ringback Y/N DN2 to DNA PRIORITY call completed Y/N	
	<table border="1"> <tr> <td data-bbox="172 316 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="493 316 772 365"><b>Reference:</b> GSCR Sect. 3.8.4</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4	13. Place all instruments on hook. 14. Place a ROUTINE call from ON1 to DN1. 15. DNA hook flashes and places ON1 on hold 16. Place a ROUTINE call from DN1 to DN2. 17. Place a PRIORITY call from DN3 to DN1.  18. Place all instruments on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4			
M	<b>MLPP Three-way Calling (TWC)</b>	1. TWC, Precedence Level Preserved Each Call. a. Place a ROUTINE call from ON1 to DN1. b. DNA does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. c. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. e. Place an IMMEDIATE call from ON2 to DN2.  f. Place all calls on hook. g. Place a ROUTINE call from ON1 to DN1. h. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. i. Place a PRIORITY call from ON2 to DN1. Place ON2 on hook j. Place an IMMEDIATE call from ON2 to DN1.  k. Place all calls on hook	1. TWC, Precedence Level Preserved Each Call a. Call completes. Y/N b. TWC complete between ON1, DN1, and DN2. Y/N  c. ON2 receives standard busy tone. Y/N  d. ON2 receives BPA. Y/N  e. Call completed and preempts PRIORITY call Y/N DN2 receives preempt notification. Y/N ON1 and DN1 call remains connected Y/N f. Calls end. Y/N g. Call completes. Y/N h. TWC complete between ON1, DN1, and DN2. Y/N  i. ON2 receives a BPA. Y/N  j. Call completed and preempts DNA1. Y/N DN1 receives preempt notification. Y/N ON1 and DN2 call remains connected and receive a short 2 second preempt tone Y/N ON2 to DN1 call completed Y/N k. Calls end. Y/N	
	<table border="1"> <tr> <td data-bbox="172 657 485 706"><b>Requirement:</b> Conditional</td> <td data-bbox="493 657 772 706"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	Configure a T1 SS7 between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ONA, ONB). Two instruments are required on the Destination Node (DNA, DNB). Provision DNA with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
M C o n t i n u e d	<b>MLPP</b> <b>Three-way Calling (TWC) (continued)</b>	l. Place a ROUTINE call from ON1 to DN1. m. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2.	l. Call completes. Y/N m. TWC complete between ON1, DN1, and DN2. Y/N	
	<table border="1" data-bbox="163 313 772 365"> <tr> <td data-bbox="163 313 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="485 313 772 365"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table> <p data-bbox="163 365 772 1177">Configure a T1 SS7 between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ONA, ONB). Two instruments are required on the Destination Node (DNA, DNB). Provision DNA with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.</p>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	n. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. o. Place a PRIORITY call from ON2 to ON1. Place ON2 on hook.  p. Place a PRIORITY call from ON2 to DN2. Place all calls on hook 2. TWC, Precedence Level Preserved, Split Operation a. Place a ROUTINE call from ON1 to DN1. b. DN1 does a hook flash and calls DN2 at PRIORITY c. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place all calls on hook. e. Place a PRIORITY call from ON2 to DN1. Place all calls on hook f. Place a ROUTINE call from ON1 to DN1. g. DN1 does a hook flash and calls DN2 at PRIORITY.  h. Place a PRIORITY call from ON2 to ON1. Place all calls on hook.  i. Place a ROUTINE call from ON1 to DN1. j. DN1 does a hook flash and calls DN2 at PRIORITY.  k. Place an IMMEDIATE call from ON2 to DN2.  l. Place all calls on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
<b>Notes:</b>				

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
N	<b>MLPP Call Pick-Up</b>	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON1 to DN1. Don't answer.</li> <li>2. Have DN2 pick-up call.</li> <li>3. Hang up calls.</li> <li>4. Place ROUTINE call from ON1 to DN1; don't answer.</li> <li>5. Place PRORITY call from ON2 to DN2; don't answer.</li> <li>6. Have DN3 do call pick-up.</li> <li>7. Hang up calls.</li> <li>8. Place IMMEDIATE call from ON1 to DN1; don't answer.</li> <li>9. Place IMMEDIATE call from ON2 to DN2; don't answer.</li> <li>10. Have DN3 do call-pick up.</li> <li>11. Hang up all calls.</li> <li>12. Place FLASH call from ON1 to DN1. Answer.</li> <li>13. Place FLASH OVERRIDE call from DN2 to ON2.</li> <li>14. PLACE FLASH OVERRIDE call from ON3 to DN2. Don't answer.</li> <li>15. Attempt to call pick -up ON2 via DN3.</li> <li>16. DN2 Answer ON2 call.</li> <li>17. Hang up all calls.</li> <li>18. Repeat for other phone types.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call rings. Y/N</li> <li>2. DN2 able to pick-up DN1 call. Y/N</li> <li>3. Calls end. Y/N</li> <li>4. Call completes; DN1 rings. Y/N</li> <li>5. Call completes; DN2 rings at precedence. Y/N</li> <li>6. DN3 call pick-up picks up ON2. Y/N</li> <li>7. Calls end. Y/N</li> <li>8. Call competes and precedence rings at DN1. Y/N</li> <li>9. Call completes and precedence rings at DN2. Y/N</li> <li>10. Call pick-up picks up ON1 (longest). Y/N</li> <li>11. Calls end. Y/N</li> <li>12. Call completes. Y/N</li> <li>13. Call completes. Y/N</li> <li>14. PNT sent to ON1-DN1. Y/N</li> <li>15. Call pick-up unsuccessful. Y/N</li> <li>16. ON2-DN2 call completes. Y/N</li> <li>17. Calls end, Y/N</li> <li>18. Y/N</li> </ol> <table border="1" data-bbox="1430 708 1955 1130"> <thead> <tr> <th colspan="2" data-bbox="1430 708 1955 735">Call Pick-Up</th> </tr> </thead> <tbody> <tr> <td data-bbox="1430 735 1543 833"><b>Analog</b></td> <td data-bbox="1543 735 1955 833"></td> </tr> <tr> <td data-bbox="1430 833 1543 930"><b>BRI</b></td> <td data-bbox="1543 833 1955 930"></td> </tr> <tr> <td data-bbox="1430 930 1543 1027"><b>Digital</b></td> <td data-bbox="1543 930 1955 1027"></td> </tr> <tr> <td data-bbox="1430 1027 1543 1125"><b>VoIP</b></td> <td data-bbox="1543 1027 1955 1125"></td> </tr> </tbody> </table>	Call Pick-Up		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
	Call Pick-Up												
<b>Analog</b>													
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<table border="1" data-bbox="163 313 772 367"> <tr> <td data-bbox="163 313 485 367"><b>Requirement:</b> Conditional</td> <td data-bbox="485 313 772 367"><b>Reference:</b> GSCR Sect. 3.8.6</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6	<p data-bbox="772 367 1417 1282">Configure a T1 SS7 between Origination Node (ON) and SUT - Destination Node (DN). Provision a call pick-up group on the SUT comprised of three subscribers (DN1-DN3). Provision ON with 3 subscribers (ON1-ON3). Busy out all but two trunks.</p>										
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6												
<p data-bbox="94 1282 2005 1282"><b>Notes:</b></p>													

**Table E-2.3.2. T1 SS7 T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																														
O	<b>Secure Calls</b> <table border="1"> <tr> <td><b>Requirement:</b> MFS, EOS, &amp; SMEO</td> <td><b>Reference:</b> CJCSI 6215.01B</td> </tr> </table>	<b>Requirement:</b> MFS, EOS, & SMEO	<b>Reference:</b> CJCSI 6215.01B	Place 2 ROUTINE secure voice calls from SUT to DN via a T1 SS7 trunk using STU-III, STE, and SWT. Record the MOS and connection rate.	<table border="1"> <thead> <tr> <th></th> <th>STU</th> <th>STE</th> <th>SWT</th> </tr> </thead> <tbody> <tr> <td><b>STU call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STU call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> </tbody> </table>		STU	STE	SWT	<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:
	<b>Requirement:</b> MFS, EOS, & SMEO	<b>Reference:</b> CJCSI 6215.01B																															
	STU	STE	SWT																														
<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
Configure a T1 SS7 between SUT and DN. Configure a STU-III and STE off of both SUT and DN. Provision SWTs off of each if available.		Notes:																															

**Table E-2.3.3. T1 SS7 T1.619a Trunk Interface Test Procedures for Facsimile**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																				
A	<b>Facsimile</b> <table border="1"> <tr> <td><b>Requirement:</b> Conditional</td> <td><b>Reference:</b> JTA</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> JTA	Place 5 facsimile calls between the two facsimiles. Send the IEEE167A-1995 test sheet fro quality measurement.	<table border="1"> <thead> <tr> <th>Call #</th> <th>Completed</th> <th>IEEE167A-1995</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Y/N</td> <td></td> </tr> <tr> <td>2</td> <td>Y/N</td> <td></td> </tr> <tr> <td>3</td> <td>Y/N</td> <td></td> </tr> <tr> <td>4</td> <td>Y/N</td> <td></td> </tr> <tr> <td>5</td> <td>Y/N</td> <td></td> </tr> </tbody> </table>	Call #	Completed	IEEE167A-1995	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	<b>Requirement:</b> Conditional	<b>Reference:</b> JTA																					
Call #	Completed	IEEE167A-1995																					
1	Y/N																						
2	Y/N																						
3	Y/N																						
4	Y/N																						
5	Y/N																						
Configure a T1 SS7 link between SUT and DN. Provision a analog fax off of each node.		Notes:																					

**Table E-2.3.4. T1 SS7 T1.619a Trunk Interface Test Procedures for Data**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
A	<b>56K Switched Data</b>	1. Using the Sunset BRI Test set place a synchronous switched 56K data calls from SUT to DN over the T1 SS7 link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____	
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 2.3.3</td> </tr> <tr> <td colspan="2">Provision a T1 SS7 link between SUT and DN.</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS
<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3			
Provision a T1 SS7 link between SUT and DN.				
B	<b>64K Switched Data</b>	1. Using the Sunset BRI Test set place a synchronous switched 64K data calls from SUT to DN over the T1 SS7 link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____	
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 2.3.3</td> </tr> <tr> <td colspan="2">Provision a T1 SS7 link between SUT and DN.</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS
<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3			
Provision a T1 SS7 link between SUT and DN.				
C	<b>N X 56 Synchronous</b>	1. Using Sunset BRI test set place a 112 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 SS7 link. 2. Using Sunset BRI test set place a 336 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 SS7 link.  <b>Notes:</b>	1. Bit Errors recorded _____ 2. Bit Errors recorded _____	
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 2.3.3</td> </tr> <tr> <td colspan="2">Provision a T1 SS7 link between SUT and DN.</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS
<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3			
Provision a T1 SS7 link between SUT and DN.				
D	<b>N X 64 Synchronous</b>	1. Using Sunset BRI test set place a 128 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 SS7 link. 2. Using Sunset BRI test set place a 384 kbps data call for 9-hr period with a 2047 pattern SUT to DN via T1 SS7 link.  <b>Notes:</b>	1. Bit Errors recorded _____ 2. Bit Errors recorded _____	
	<table border="1"> <tr> <td><b>Requirement:</b> Ts, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 2.3.3</td> </tr> <tr> <td colspan="2">Provision a T1 SS7 link between SUT and DN.</td> </tr> </table>			<b>Requirement:</b> Ts, MFS, & EOS
<b>Requirement:</b> Ts, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3			
Provision a T1 SS7 link between SUT and DN.				

**Table E-2.3.4. T1 SS7 T1.619a Trunk Interface Test Procedures for Data**

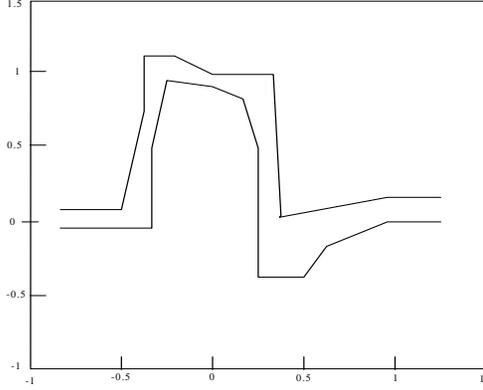
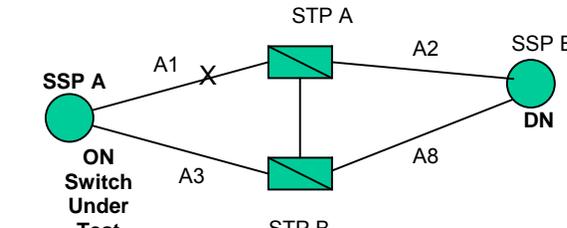
Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
E	<b>Secure Data Calls</b>	1. Place an intraswitch STU-III to STU-III secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	1. No Pattern slips. Y/N
	<b>Requirement:</b> All		No Pattern losses. Y/N
	<b>Reference:</b> CJSCI 6215.01B	2. Place an intraswitch STU-III to STE secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
	Configure a T1 SS7 link between SUT and DN. Provision the SUT and DN with a STE and one STU-III.		2. No Pattern slips. Y/N
		3. Place a STE to STE secure data call from ON to DN. Run a Bit Error Rate Test at 19.2 Kbps using a 511 test pattern for 9 hours minutes.	No Pattern losses. Y/N
			Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
		<b>Notes:</b>	

**Table E-2.3.5. T1 SS7 T1.619a Trunk Interface Test Procedures for VTC**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>VTC</b>	1. Place an intraswitch 384 kbps video call between VTC units via T1 SS7 link.	1. VTC completes. Y/N
	<b>Requirement:</b> MFS, EOS, & SMEO		VTC quality. _____
	<b>Reference:</b> Configure a T1 SS7 link between SUT and DN. Provision a VTC unit off of the SUT and DN capable of transmitting 384 kbps video.		
		<b>Notes:</b>	

**E-2.4 E1 SS7 (Q.735.3) Trunk Interface.** Tables E-2.4.1 through E-2.4.5 outline the detailed test procedures for testing the SUT's E1 SS7 trunk interface. This SS7 interface supports DSN MLPP through the Q.735.3 protocol. Objectives, criterion and data required for this interface are contained in appendix D-2.4.

**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<p><b>Framing &amp; Line Code</b></p> <p><b>Requirement:</b> Ts, MFS, &amp; EOS (Europe only)</p> <p><b>Reference:</b> GSCR Sect. 7</p> <p>Configure an E1 with HDB3 line coding</p>	<p>1. Use the Sunset E10 test set to do a Pulse Mask Analysis to test the Electrical Interface Characteristics.</p> <p><b>Notes:</b></p>	
	<p><b>Signaling</b></p> <p><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</p> <p><b>Reference:</b> GSCR Sect. 5</p>  <p>Monitor the SS7 links using the Tektronix 1297. Configure the Ameritec traffic loader to generate 2,500 calls per hour over the link from Origination Node (ON) to Destination Node (DN). Run for one hour to establish a baseline call completion rate then run for second hour. Monitor all SS7 links using the Tektronix 1297. Break link A1.</p>		

**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
B c o n t i n u e d	<b>Signaling (continued)</b>	<p><b>Q.735.3:</b></p> <ol style="list-style-type: none"> <li>Place five analog calls at each precedence level from Origination Node (ON) to Destination Node (DN) and stay in the talk state for 5 minutes. Capture the Message Signal Units for the Five calls. Place all instruments on hook.</li> <li>Repeat for other line types.</li> <li>Place a ROUTINE call from ON1 to DN1</li> <li>Place a ROUTINE call from ON2 to DN1. Place all instruments on hook.</li> </ol> <p><b>SCCP:</b></p> <ol style="list-style-type: none"> <li>Place a ROUTINE call from subscriber ON2 to DN1 and remain off hook.</li> <li>Place a ROUTINE call from subscriber ON1 to DN1</li> <li>Activate the Automatic Recall or Network Ring-again feature on ONA and place ON1 on hook.</li> <li>Place ON2 and DN1 on hook.</li> <li>Answer ON1.</li> <li>Verify that DN1 rings.</li> <li>Answer DN1. Place all phones on hook.</li> <li>Verify the correct SCCP format includes Routing Label, Mandatory Fixed Part, and Mandatory Variable Part</li> <li>Place a ROUTINE call from subscriber DN2 to ON1 and remain off hook.</li> <li>Place a ROUTINE call from subscriber DN1 to ON1.</li> <li>Activate the Automatic Recall or Network Ring-again feature on DN1 and place DN1 on hook.</li> <li>Place ON1 and DN2 on hook.</li> <li>Answer DN1.</li> <li>Verify that ON1 rings.</li> <li>Answer ON1. Place all phones on hook.</li> <li>Verify the correct SCCP format includes Routing Label, Mandatory Fixed Part, and Mandatory Variable Part.</li> </ol> <p><b>Notes:</b></p>	<ol style="list-style-type: none"> <li>All calls complete. Y/N Verify the correct SS7 signaling sequence for each call i.e. IAM, ACM, ANM, REL, RLC Y/N Verify Destination Point Code and the Originating Point Code within each MSU is correct. Y/N IS-UP messages correct. Y/N IS-UP parameters correct. Y/N</li> <li>Signaling correct. Y/N</li> <li>Call completes. Y/N</li> <li>Call incomplete and received busy tone. Y/N ON1 to DN1 call remains in talk state. Y/N Verify Node 1 REL message contains cause code of 00010001. Y/N IS-UP messages correct. Y/N IS-UP parameters correct. Y/N</li> </ol> <p><b>SCCP:</b></p> <ol style="list-style-type: none"> <li>Call complete. Y/N</li> <li>ON1 receives T60 busy tone. Y/N</li> <li>Automatic Recall/Ring-again activated. Y/N</li> <li>ON1 sounds special ringing. Y/N</li> <li>ON1 hears ringback. Y/N</li> <li>DN1 ringing. Y/N</li> <li>Call completes. Y/N</li> <li>SCCP format correct. Y/N</li> </ol> <ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>DNA receives T60 busy tone. Y/N</li> <li>Automatic Recall/Ring-again activated. Y/N</li> <li>DN1 sounds special ringing. Y/N</li> <li>DN1 hears ringback. Y/N</li> <li>ON1 ringing. Y/N</li> <li>Call completes. Y/N</li> <li>SCCP format correct. Y/N</li> </ol>		
	<table border="1"> <tr> <td data-bbox="163 280 478 337"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td data-bbox="478 280 772 337"><b>Reference:</b> GSCR Sect. 5</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 5
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)			<b>Reference:</b> GSCR Sect. 5	
<p>Provision two analog subscriber on the Origination Node (ONA, ONB), and two analog subscribers on the Destination Node (DNA, DNB). Provision ONA and DNA with the Automatic Recall (Network Ring-again) feature. Use the Tektronix 1297 to monitor all SS7 links and capture SS7 messaging</p>					

**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
B c o n t i n u e d	<b>Signaling (continued)</b>		<b>Signaling Link Congestion.</b>	
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 5	1. Place a ROUTINE call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook.	1. ROUTINE call completes. Y/N IAM message captured Y/N Priority Level is 0 Y/N
	Provision one analog subscriber on the switch under test (Origination Node subscriber A (ONA) with Flash Override precedence capability. Provision one analog subscriber on the Destination Node (DNA). Use the Tektronix 1297 to monitor all SS7 links and capture SS7 messages.		2. Place a PRIORITY call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook. 3. Place an IMMEDIATE call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook. 4. Place a FLASH call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook. 5. Place a FLASH OVERRIDE call from subscriber ON1 to DN1 and remain off hook. Capture the IAM Message Priority using the Tektronix 1297. Place all instruments on hook.	2. PRIORITY call completes. Y/N IAM message captured Y/N Priority Level is 1 Y/N 3. IMMEDIATE call completes. Y/N IAM message captured Y/N Priority Level is 2 Y/N 4. FLASH call completes. Y/N IAM message captured Y/N Priority Level is 3 Y/N 5. FLASH OVERRIDE call completes. Y/N IAM message captured Y/N Priority Level is 3 Y/N
			<b>Notes:</b>	
C	<b>Alarms</b>		1. Break the receive path between SUT and DN at SUT.	1. SUT enter a Local/ Red Alarm state within 2.5 ± 0.5 secs of loss of frame. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 7.1.4 & 7.2.2		Time measured: _____ Y/N SUT sends Remote/Yellow Alarm. Y/N DN enters a Remote/ Yellow Alarm state. Y/N DN removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N
	Provision an E1 SS7 link between SUT and destination node (DN)		2. Reconnect the receive path between SUT and DN at SUT.  3. Break the receive path between SUT and DN at DN.  4. Reconnect the receive path between SUT and DN at DN.	Time measured: _____ 2. Y/N 2. SUT returns link to service within 15 + 5 secs. Y/N Time measured: _____ DN removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N Time measured: _____ 3. DN enter a Local/ Red Alarm state within 2.5 ± 0.5 seconds of loss of frame. Y/N Time measured: _____ DN sends remote/yellow Alarm. Y/N SUT enters a Remote/ Yellow Alarm state. Y/N SUT removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N Time measured: _____ 2. Y/N 4. DN return slink to service within 15 + 5 Secs. Y/N Time measured: _____ SUT removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N Time measured: _____
			<b>Notes:</b>	

**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)																									
D	<b>WWNDP</b>		1. Verify in that the switch under test supports Interswitch 7 and 10 digit inter-switch dialing. Note: This can be validated in either translations or documentation 2. SUT supports DSN user dialing [N-P or S- 1X-KXX-XXXX]; where: N is any digit 2-9 P is any digit 0-4 S is any digit 5-9 X is any digit 0-9 K is any digit 2-8	1. Switch supports 7 and 10 digit inter-switch Dialing. Y/N  2. SUT supports DSN user dialing. Y/N																									
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 4.5																											
E	<b>WWNDP Route Control Digit (RCD)</b>		1. Exterior Routing. a. RCD Exterior Routing Logic.																										
	<b>Requirement:</b> TS, MFS (Europe only)	<b>Reference:</b> GSCR Sect. 4.5.2.1																											
			<table border="1"> <thead> <tr> <th colspan="2">ROUTINE calls</th> </tr> <tr> <th>RCD</th> <th>Route Selected</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>1</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>2</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>3</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <th colspan="2">Non-ROUTINE calls</th> </tr> <tr> <td>0</td> <td>All programmed routes</td> </tr> <tr> <td>1</td> <td>Use direct plus 1st and 2nd triple.</td> </tr> <tr> <td>2</td> <td>Use direct plus 1st and 3rd triple.</td> </tr> <tr> <td>3</td> <td>Use direct plus 1st triple.</td> </tr> </tbody> </table>	ROUTINE calls		RCD	Route Selected	0	Use direct plus 1st triple.	1	Use direct plus 1st triple.	2	Use direct plus 1st triple.	3	Use direct plus 1st triple.	Non-ROUTINE calls		0	All programmed routes	1	Use direct plus 1st and 2nd triple.	2	Use direct plus 1st and 3rd triple.	3	Use direct plus 1st triple.				
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RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out																									
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			<b>Notes:</b>																										

**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																										
E C o n t i n u e d	<b>WWNDP</b> <b>Route Control Digit (RCD) (continued)</b>	c. Calls above ROUTINE- Idle Search																											
	<table border="1"> <tr> <td data-bbox="163 305 499 362">Requirement: TS, MFS (Europe only)</td> <td data-bbox="499 305 772 362">Reference: GSCR Sect. 4.5.2.1</td> </tr> </table>	Requirement: TS, MFS (Europe only)	Reference: GSCR Sect. 4.5.2.1	<table border="1"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>1</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	3	NA	NA	2	0	3	NA	NA	3	0	3	NA	NA
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		<table border="1"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>1</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	NA	NA	NA	2	0	NA	NA	NA	3	0	NA	NA	NA		
RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out																									
0	0	1,2, or 3	NA	NA																									
1	0	NA	NA	NA																									
2	0	NA	NA	NA																									
3	0	NA	NA	NA																									
		<b>Notes:</b>																											

**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																				
E C o n t i n u e d	<p><b>WWNDP</b> <b>Route Control Digit (RCD) (continued)</b></p> <table border="1" data-bbox="163 305 774 362"> <tr> <td><b>Requirement:</b> TS, MFS (Europe only)</td> <td><b>Reference:</b> GSCR Sect. 4.5.2.1</td> </tr> </table>	<b>Requirement:</b> TS, MFS (Europe only)	<b>Reference:</b> GSCR Sect. 4.5.2.1	<p>c. Calls above ROUTINE- Idle Search</p> <table border="1" data-bbox="884 285 1713 440"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>1</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table> <p>d. Calls above ROUTINE- Preemptive Search</p> <table border="1" data-bbox="884 513 1713 667"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>3</td> <td>3</td> </tr> <tr> <td>1</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>NA</td> <td>3</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table> <p><b>Notes:</b></p>	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	NA	NA	NA	2	0	NA	NA	NA	3	0	NA	NA	NA	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	3	3	1	0	3	NA	NA	2	0	NA	3	NA	3	0	3	NA	NA	
	<b>Requirement:</b> TS, MFS (Europe only)	<b>Reference:</b> GSCR Sect. 4.5.2.1																																																					
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1	0	3	NA	NA																																																			
2	0	NA	3	NA																																																			
3	0	3	NA	NA																																																			
F	<p><b>Routing</b></p> <table border="1" data-bbox="163 878 774 935"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td><b>Reference:</b> GSCR Sect. 4.2</td> </tr> </table> <p>Verify in software of the switch under test the following primary route and alternate route capacities via E1 SS7.</p>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 4.2	<p><b>TS &amp; MFS:</b></p> <ol style="list-style-type: none"> <li>Assign a direct route and nine alternate routes in the switch under test (each route with one trunk group)</li> <li>Assign a route (direct or alternate) with a minimum of four trunk groups in the switch under test.</li> </ol> <p><b>EOS:</b></p> <ol style="list-style-type: none"> <li>Assign a direct route and five alternate routes in the switch under test (each route with one trunk group)</li> <li>Assign a route (direct or alternate) with a minimum of one trunk group per route and up to 96 members per trunk group in the switch under test.</li> </ol> <p><b>Notes:</b></p>	<table border="1" data-bbox="1421 854 2011 1130"> <tr> <td>1. Switch allows assignment of direct route with nine alternate routes</td> <td>Y/N</td> </tr> <tr> <td>2. Switch allows assignment of minimum of four trunk groups per route</td> <td>Y/N</td> </tr> <tr> <td>1. Switch allows assignment of direct route with five alternate routes</td> <td>Y/N</td> </tr> <tr> <td>2. Switch allows assignment of minimum of one trunk group per route and 96 members per trunk group.</td> <td>Y/N</td> </tr> </table>	1. Switch allows assignment of direct route with nine alternate routes	Y/N	2. Switch allows assignment of minimum of four trunk groups per route	Y/N	1. Switch allows assignment of direct route with five alternate routes	Y/N	2. Switch allows assignment of minimum of one trunk group per route and 96 members per trunk group.	Y/N																																										
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**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
G	<b>Trunk Groups</b>		1. Busy-out all trunks on the E1 SS7 from the SUT maintenance terminal.	1. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 2.5.5& 2.5.6	2. Break the SS7 span for 60 sec. then restore. Monitor the status from the DN maintenance terminal 3. Repeat the procedure from the DN  4. Busy-out one trunk. Idle the trunk on the E1 from the DN maintenance terminal Monitor the status from the ON maintenance terminal  5. Repeat with 2, 4, 8, 16, 24 trunks busied/idled 6. Busy-out one trunk then idle on the T1 from the ON maintenance terminal  7. Monitor the status from the ON maintenance terminal Repeat with 2, 4, 8, 16, 24 trunks busied /idled.	2. After the link is restored busy-outs remain acknowledged. Y/N 3. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N. After the link is restored busy-outs remain acknowledged. Y/N 4. The SUT Maintenance Terminal immediately acknowledges a remote busy-out applied from the DN maintenance terminal Y/N The SUT Maintenance Terminal immediately acknowledges an idle applied from the DN maintenance terminal. Y/N 5. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N 6. The DN Maintenance Terminal immediately acknowledges a remote busy-out applied from the SUT maintenance terminal Y/N The DN Maintenance Terminal immediately acknowledges an idle applied from the SUT maintenance terminal. Y/N 7. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N
<b>Notes:</b>				

**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)				Expected Result(s)	
H	<b>CAS to CCS Interworking</b>		<b>Line-to-trunk</b>					
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.10	<b>Origin</b>	<b>Route Digit</b>	<b>Bearer Capability</b>	<b>Termination</b>	<b>Route Digit</b>	<b>Bearer capability</b>
	Configure SUT with an analog users and BRI instrument. Configure the Destination Node (DN) with analog and BRI instruments. Configure tandem node between SUT and DN with T1 SS7, T1 CAS, E1 CAS, T1 PRI and E1 PRI between each node.  Note. Speech may also be 3.1K-bearer capability.		Analog	0/5	N/A	E1 SS7	0/5	Speech
			Analog	1/6	N/A	E1 SS7	1/6	Speech
			BRI	0/5	Speech	E1 SS7	0/5	Speech
			BRI	1/6	Speech	E1 SS7	1/6	Speech
			BRI	0/5	56K CMD	E1 SS7	1/6	56K CMD
			BRI	0/5	64K CMD	E1 SS7	1/6	64K CMD
			BRI	1/6	56K CMD	E1 SS7	1/6	56K CMD
			BRI	1/6	64K CMD	E1 SS7	1/6	64K CMD
			<b>Trunk-to-Line</b>					
			E1 SS7	0/5	Speech	Analog	N/A	N/A
			E1 SS7	1/6	Speech	Analog	N/A	N/A
			E1 SS7	0/5	Speech	BRI	N/A	Speech
			E1 SS7	1/6	Speech	BRI	N/A	Speech
			E1 SS7	0/5	56K CMD	BRI	N/A	56K CMD
			E1 SS7	0/5	64K CMD	BRI	N/A	64K CMD
			E1 SS7	1/6	56K CMD	BRI	N/A	56K CMD
			E1 SS7	1/6	64K CMD	BRI	N/A	64K CMD
			<b>Trunk-to-Trunk</b>					
			E1 SS7	1/6	56/64K CMD	T1 CAS	1/6	N/A
			E1 SS7	1/6	Speech	T1 CAS	1/6	N/A
			E1 SS7	1/6	56/64K CMD	E1 CAS	1/6	N/A
			E1 SS7	1/6	Speech	E1 CAS	1/6	N/A
			E1 SS7	0/5	Speech	E1 CAS	0/5	N/A
			E1 SS7	0/5	56/64K CMD	E1 CAS	1/6	N/A
			E1 SS7	0/5	Speech	T1 CAS	0/5	N/A
			E1 SS7	0/5	56/64K CMD	T1 CAS	1/6	N/A
			E1 SS7	1/6	56/64K CMD	T1/E1 PRI	N/A	56/64K CMD
			E1 SS7	1/6	Speech	T1/E1 PRI	N/A	Speech
		E1 SS7	0/5	56/64K CMD	T1/E1 PRI	N/A	56/64K CMD	
		E1 SS7	0/5	Speech	T1/E1 PRI	N/A	Speech	
		<b>Notes:</b>						

**Table E-2.4.1. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																	
I	<b>PCM-24/PCM-30</b>	1. Place a call from ON subscriber to DN subscriber and verify a-law to mu-law conversion.  <b>Notes:</b>	A-law to mu-law conversion via E1 SS7 link to:																	
	<table border="1"> <thead> <tr> <th></th> <th>T1 SS7</th> <th>T1 PRI</th> <th>T1 CAS</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td></td> <td></td> <td></td> </tr> <tr> <td>BRI</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Digital</td> <td></td> <td></td> <td></td> </tr> <tr> <td>VoIP</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			T1 SS7	T1 PRI	T1 CAS	Analog				BRI				Digital				VoIP	
	T1 SS7	T1 PRI	T1 CAS																	
Analog																				
BRI																				
Digital																				
VoIP																				
J	<b>DID</b>	1. Place ROUTINE call from ON1 to P1. 2. Place ROUTINE call from ON2 to P2. 3. Place PRIORITY call from ON3 to P1.  <b>Notes:</b>	1. Call completes. Y/N																	
	<table border="1"> <thead> <tr> <th>Requirement:</th> <th>Reference:</th> </tr> </thead> <tbody> <tr> <td>TS, MFS, &amp; EOS</td> <td>GSCR Sect. 7.3</td> </tr> </tbody> </table> <p>Configure SUT as a tandem node with incoming (E1 SS7) link and outgoing (T1 SS7, T1 PRI and T1 CAS) links between origination node and destination node..</p>		Requirement:	Reference:	TS, MFS, & EOS	GSCR Sect. 7.3	2. Reroute to announcement, reorder tone or attendant. Y/N													
Requirement:	Reference:																			
TS, MFS, & EOS	GSCR Sect. 7.3																			
	<table border="1"> <thead> <tr> <th>Requirement:</th> <th>Reference:</th> </tr> </thead> <tbody> <tr> <td>MFS &amp; EOS (Europe only)</td> <td>GSCR 2.3.2</td> </tr> </tbody> </table> <p>Configure the SUT to have a PBX1 connected to it with DID trunks. Configure 2 subscribers, P1 and P2 on the PBX. P2 has a restriction not to receive terminating calls. Configure ON with 3 subscribers ON1, ON2, &amp; ON 3.</p>	Requirement:	Reference:	MFS & EOS (Europe only)	GSCR 2.3.2		3. ON1 and P1 receive PNT. Y/N ON3-P1call completes. Y/N													
Requirement:	Reference:																			
MFS & EOS (Europe only)	GSCR 2.3.2																			

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																					
A	<b>MOS</b>	1. Place 2 calls between SUT subscriber and DN subscriber such that the calls traverse the E1 SS7 link. Record the average MOS for each set of 10 calls.  <b>Notes:</b>	Average MOS:																																																					
	<table border="1"> <thead> <tr> <th>Requirement:</th> <th>Reference:</th> </tr> </thead> <tbody> <tr> <td>TS, MFS &amp; EOS</td> <td></td> </tr> </tbody> </table> <p>Configure an E1 SS7 between SUT and DN. Provision one subscriber of each type (analog &amp; BRI). If digital and VoIP phones are supported by the SUT configure one each off of the SUT and DN..</p>		Requirement:	Reference:	TS, MFS & EOS		<table border="1"> <thead> <tr> <th>Origination</th> <th>Termination</th> <th>Ave MOS of 2 calls</th> </tr> </thead> <tbody> <tr><td>Analog</td><td>Analog</td><td></td></tr> <tr><td>Analog</td><td>BRI</td><td></td></tr> <tr><td>Analog</td><td>Digital</td><td></td></tr> <tr><td>Analog</td><td>VoIP</td><td></td></tr> <tr><td>BRI</td><td>Analog</td><td></td></tr> <tr><td>BRI</td><td>BRI</td><td></td></tr> <tr><td>BRI</td><td>Digital</td><td></td></tr> <tr><td>BRI</td><td>VoIP</td><td></td></tr> <tr><td>Digital</td><td>Analog</td><td></td></tr> <tr><td>Digital</td><td>BRI</td><td></td></tr> <tr><td>Digital</td><td>Digital</td><td></td></tr> <tr><td>Digital</td><td>VoIP</td><td></td></tr> <tr><td>VoIP</td><td>Analog</td><td></td></tr> <tr><td>VoIP</td><td>BRI</td><td></td></tr> <tr><td>VoIP</td><td>Digital</td><td></td></tr> <tr><td>VoIP</td><td>VoIP</td><td></td></tr> </tbody> </table>	Origination	Termination	Ave MOS of 2 calls	Analog	Analog		Analog	BRI		Analog	Digital		Analog	VoIP		BRI	Analog		BRI	BRI		BRI	Digital		BRI	VoIP		Digital	Analog		Digital	BRI		Digital	Digital		Digital	VoIP		VoIP	Analog		VoIP	BRI		VoIP	Digital		VoIP
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**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																																																															
B	<b>MLPP Precedence Parameters</b> <table border="1" data-bbox="163 315 772 367"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3	<p>1. Verify E1 SS7 IAM meets following:</p> <table border="1" data-bbox="869 285 1913 667"> <thead> <tr> <th>Bits</th> <th>8</th> <th>7</th> <th>6</th> <th>5</th> <th>4</th> <th>3</th> <th>2</th> <th>1</th> </tr> </thead> <tbody> <tr> <td><b>Octet 1</b></td> <td>Spare</td> <td colspan="2">LFB</td> <td>Spare</td> <td colspan="4">Precedence Level</td> </tr> <tr> <td><b>2</b></td> <td colspan="4">1<sup>st</sup> Network Identity Digit</td> <td colspan="4">2<sup>nd</sup> Network Identity Digit</td> </tr> <tr> <td><b>3</b></td> <td colspan="4">3<sup>rd</sup> Network Identity Digit</td> <td colspan="4">4<sup>th</sup> Network Identity Digit</td> </tr> <tr> <td><b>4</b></td> <td colspan="8">Most Significant Bit (MLPP Service Domain 1<sup>st</sup> Octet)</td> </tr> <tr> <td><b>5</b></td> <td colspan="8">MLPP Service Domain (2<sup>nd</sup> Octet)</td> </tr> <tr> <td><b>6</b></td> <td colspan="8">Least Significant Bit (MLPP Service Domain 3<sup>rd</sup> Octet)</td> </tr> </tbody> </table> <p>Where,</p> <table border="1" data-bbox="1026 708 1751 1032"> <thead> <tr> <th>PRECEDENCE BITS</th> <th>4</th> <th>3</th> <th>2</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>FLASH OVERRIDE (0)</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>FLASH (1)</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>IMMEDIATE (2)</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> </tr> <tr> <td>PRIORITY (3)</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>ROUTINE (4)</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>2. Verify IAM called party number format is X [Y] (KXX) KXX-XXXX.</p> <p>3. Verify following TCAP parameters supported:</p> <ul style="list-style-type: none"> <li>a. Bearer capability. <ul style="list-style-type: none"> <li>00000001 (bearer capability is not supported) Y/N</li> <li>00000010 (bearer capability is supported) Y/N</li> <li>00000011 (bearer capability is not authorized) Y/N</li> <li>00000100 (bearer capability is not presently available) Y/N</li> <li>00000101 (bearer capability is not implemented) Y/N</li> </ul> </li> <li>b. Circuit Identification Code (CIC) of 2 octets. Y/N</li> <li>c. Call reference parameter is 5 octets. Y/N</li> </ul> <p><b>Notes:</b></p>	Bits	8	7	6	5	4	3	2	1	<b>Octet 1</b>	Spare	LFB		Spare	Precedence Level				<b>2</b>	1 <sup>st</sup> Network Identity Digit				2 <sup>nd</sup> Network Identity Digit				<b>3</b>	3 <sup>rd</sup> Network Identity Digit				4 <sup>th</sup> Network Identity Digit				<b>4</b>	Most Significant Bit (MLPP Service Domain 1 <sup>st</sup> Octet)								<b>5</b>	MLPP Service Domain (2 <sup>nd</sup> Octet)								<b>6</b>	Least Significant Bit (MLPP Service Domain 3 <sup>rd</sup> Octet)								PRECEDENCE BITS	4	3	2	1	FLASH OVERRIDE (0)	0	0	0	0	FLASH (1)	0	0	0	1	IMMEDIATE (2)	0	0	1	0	PRIORITY (3)	0	0	1	1	ROUTINE (4)	0	1	0	0	<p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p> <p>Y/N</p>
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ROUTINE (4)	0	1	0	0																																																																																														

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)									
C	<p><b>MLPP Preempt for Reuse (Answered)</b></p> <table border="1"> <tr> <td data-bbox="163 313 474 367"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td data-bbox="474 313 772 367"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3	<ol style="list-style-type: none"> <li>Place a ROUTINE call from ON1 to DN1.</li> <li>Place a PRIORITY call from DN2 to ON2.</li> <li>Place an IMMEDIATE call from ON3 to DN3.</li> </ol>	<ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>SUT sends release message with cause value 9. Y/N</li> </ol>							
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3										
<p>Configure an E1 SS7 with Q.735.3 trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)</p>	<ol style="list-style-type: none"> <li>Place a FLASH call from DN1 to ON2.</li> <li>Place a FLASH OVERRIDE call from ON1 to DN2.</li> <li>Place a FLASH OVERRIDE call from DN3 to ON3.</li> <li>Place a FLASH OVERRIDE call from ON2 to DN1.</li> <li>Place all instruments on hook.</li> <li>Repeat for all phone types</li> </ol>	<ol style="list-style-type: none"> <li>ON1-DN1 receive PNT. Y/N</li> <li>SUT sends IAM with precedence. Y/N</li> <li>DN3 Rings at precedence Y/N</li> <li>SUT receives precedence ringback. Y/N</li> <li>ROUTINE trunk reused. Y/N</li> <li>DN sends release message with cause value 9. Y/N</li> <li>ON2-DN2 receive PNT. Y/N</li> <li>DN sends IAM with precedence. Y/N</li> <li>ON2 Rings at precedence. Y/N</li> <li>DN1 receives precedence ringback. Y/N</li> <li>PRIORITY trunk reused; ON2 line reused. Y/N</li> <li>SUT send release message with cause value 9. Y/N</li> <li>ON3-DN3 receive PNT. Y/N</li> <li>SUT sends IAM with precedence. Y/N</li> <li>DN1 Rings at precedence. Y/N</li> <li>ON1 receives precedence ringback. Y/N</li> <li>IMMEDIATE trunk reused. Y/N</li> <li>DN sends release message with cause value 9. Y/N</li> <li>ON2-DN1 receive PNT. Y/N</li> <li>DN sends IAM with precedence. Y/N</li> <li>ON3 Rings at precedence. Y/N</li> <li>DN3 receives precedence ringback. Y/N</li> <li>FLASH trunk reused. Y/N</li> <li>DN send release message with cause 46. Y/N</li> <li>ON2 receives BPA. Y/N</li> <li>Calls end. Y/N</li> <li></li> </ol> <table border="1"> <thead> <tr> <th colspan="2">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1419 976 1545 1052">Analog</td> <td data-bbox="1545 976 1955 1052"></td> </tr> <tr> <td data-bbox="1419 1052 1545 1101">BRI</td> <td data-bbox="1545 1052 1955 1101"></td> </tr> <tr> <td data-bbox="1419 1101 1545 1149">Digital</td> <td data-bbox="1545 1101 1955 1149"></td> </tr> <tr> <td data-bbox="1419 1149 1545 1203">VoIP</td> <td data-bbox="1545 1149 1955 1203"></td> </tr> </tbody> </table>	Preempt for Reuse (Answered)		Analog		BRI		Digital		VoIP	
Preempt for Reuse (Answered)												
Analog												
BRI												
Digital												
VoIP												
	<p><b>Notes:</b></p>											

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)											
C c o n t i n u e d	<b>MLPP Preempt for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call in ringing state. Y/N 2. Call completes. Y/N 3. SUT send release message with cause value 9. Y/N											
	<table border="1" data-bbox="163 315 772 370"> <tr> <td data-bbox="163 315 499 370"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td data-bbox="499 315 772 370"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table> <p data-bbox="163 370 772 467">Configure an E1 SS7 with Q.735.3 trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)</p>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3	4. Hang up DN2-ON2 call. Redial DN2-ON2 at PRIORITY; don't answer. 5. Place a FLASH call from DN1 to ON2.  6. Hang up ON3 to DN3. Redial at IMMEDIATE; don't answer. 7. Place a FLASH OVERRIDE call from ON1 to DN2.  8. Hang up DN1 to ON2. Redial at FLASH; don't answer. 9. Place a FLASH OVERRIDE call from DN3 to ON3.  10. Place a FLASH OVERRIDE call from ON2 to DN1.  11. Place all instruments on hook. 12. Repeat for all phone types	3. SUT send release message with cause value 9. Y/N ON1 receives PNT. Y/N SUT sends setup message with precedence. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N 4. Call in ringing state. Y/N 5. DN sends release message with cause value 9. Y/N DN2 receive PNT. Y/N DN sends IAM with precedence. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 6. Call in ringing state. Y/N 7. SUT sends release message with cause value 9. Y/N ON3 receives PNT. Y/N SUT sends IAM with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 8. Call in ringing state. Y/N 9. DN sends release message with cause value 9. Y/N DN1 receive PNT. Y/N DN sends IAM with precedence. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 10. DN sends release message with cause value 46. Y/N ON2 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" data-bbox="1419 1052 1955 1279"> <thead> <tr> <th colspan="2">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1419 1052 1545 1125">Analog</td> <td data-bbox="1545 1052 1955 1125"></td> </tr> <tr> <td data-bbox="1419 1125 1545 1174">BRI</td> <td data-bbox="1545 1125 1955 1174"></td> </tr> <tr> <td data-bbox="1419 1174 1545 1222">Digital</td> <td data-bbox="1545 1174 1955 1222"></td> </tr> <tr> <td data-bbox="1419 1222 1545 1279">VoIP</td> <td data-bbox="1545 1222 1955 1279"></td> </tr> </tbody> </table>	Preempt for Reuse (Answered)		Analog		BRI		Digital		VoIP
<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3													
Preempt for Reuse (Answered)														
Analog														
BRI														
Digital														
VoIP														
		<b>Notes:</b>												

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C C o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from ON2 to DN1.	1. Call completes. Y/N 2. SUT sends release message with cause value 8. Y/N ON1-DN1 receive PNT. Y/N SUT sends IAM with precedence. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N										
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3										
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3											
	Same as above.	3. Place an IMMEDIATE call from DN2 to ON2.  4. Place a FLASH call from ON1 to DN2.  6. Place a FLASH OVERRIDE call from DN1 to ON1.  7. Place a FLASH OVERRIDE call from ON2 to DN2. 8. Place FLASH OVERRIDE call from DN3 to ON3  9. Place all instruments on hook. 10. Repeat for all phone types.	3. DN sends release message with cause value 8. Y/N ON2-DN1 receive PNT. Y/N DN sends IAM with precedence. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N 4. SUT sends release message with cause value 8. Y/N DN2-ON2 receive PNT. Y/N SUT sends IAM with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N 6. DN sends release message with cause value 8. Y/N ON1-DN2 receive PNT. Y/N DN sends IAM with precedence. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N 7. Call completes. Y/N 8. SUT sends release message with cause 46. Y/N DN3 receives BPA. Y/N 9. Calls end. Y/N 10. <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <th colspan="2" style="text-align: left;">Preempt for Reuse (Answered)</th> </tr> <tr> <td style="width: 30%;"><b>Analog</b></td> <td></td> </tr> <tr> <td><b>BRI</b></td> <td></td> </tr> <tr> <td><b>Digital</b></td> <td></td> </tr> <tr> <td><b>VoIP</b></td> <td></td> </tr> </table>	Preempt for Reuse (Answered)		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
	Preempt for Reuse (Answered)												
	<b>Analog</b>												
	<b>BRI</b>												
	<b>Digital</b>												
	<b>VoIP</b>												
		<b>Notes:</b>											

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)									
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from ON2 to DN1.	1. Call in ringing state. Y/N 2. SUT send release message with cause value 8. Y/N ON1 receives PNT. Y/N SUT sends IAM with precedence. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N									
	<table border="1"> <tr> <td data-bbox="170 310 478 358"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe)</td> <td data-bbox="485 310 772 358"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS (Europe)	<b>Reference:</b> GSCR Sect. 3	3. Hang up ON2 to DN1 call. Redial at PRIORITY; don't answer. 4. Place an IMMEDIATE call from DN2 to ON2.	3. Call in ringing state. Y/N 4. DN sends release message with cause value 8. Y/N ON2-DN1 receive PNT. Y/N DN sends IAM with precedence. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N							
<b>Requirement:</b> TS, MFS, & EOS (Europe)	<b>Reference:</b> GSCR Sect. 3											
Same as above.	5. Hang up DN2 to ON2. Redial at IMMEDIATE; don't answer. 6. Place a FLASH call from ON1 to DN2.	5. Call in ringing state. Y/N 6. SUT sends release message with cause value 8. Y/N DN2 receives PNT. Y/N SUT sends IAM with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N										
	7. Hang up ON1 to DN2 call. Redial at FLASH; don't answer. 8. Place a FLASH OVERRIDE call from DN1 to ON1.	7. Call in ringing state. Y/N 8. DN sends release message with cause value 8. Y/N ON1 receives PNT. Y/N DN sends IAM with precedence. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N										
	9. Place a FLASH OVERRIDE call from ON2 to DN2. 10. Place FLASH OVERRIDE call from DN3 to ON3	9. Call completes. Y/N 10. SUT sends release message with cause 46. Y/N DN3 receives BPA. Y/N										
	11. Place all instruments on hook. 12. Repeat for all phone types.	11. Calls end. Y/N 12.										
		<table border="1"> <thead> <tr> <th data-bbox="1421 480 1541 505"></th> <th data-bbox="1547 480 2001 505">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1421 509 1541 550">Analog</td> <td data-bbox="1547 509 2001 550"></td> </tr> <tr> <td data-bbox="1421 555 1541 596">BRI</td> <td data-bbox="1547 555 2001 596"></td> </tr> <tr> <td data-bbox="1421 600 1541 641">Digital</td> <td data-bbox="1547 600 2001 641"></td> </tr> <tr> <td data-bbox="1421 646 1541 686">VoIP</td> <td data-bbox="1547 646 2001 686"></td> </tr> </tbody> </table>		Preempt for Reuse (Answered)	Analog		BRI		Digital		VoIP	
	Preempt for Reuse (Answered)											
Analog												
BRI												
Digital												
VoIP												
	<b>Notes:</b>											

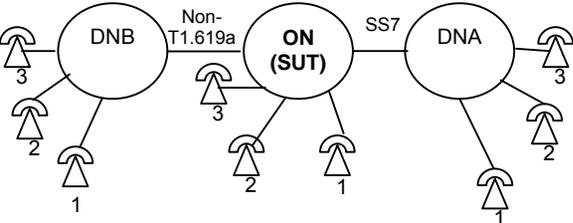
**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
D	<b>MLPP Trunk selection</b>	<b>Hunting:</b> 1. Place a ROUTINE data call between SUT and DN. 2. Place a PRIORITY data call between SUT and DN. 3. Place an IMMEDIATE voice call. Hang up all calls. 4. Place a ROUTINE data call 5. Place ROUTINE voice call 6. Place IMMEDIATE data call.	1. Call completes. Y/N 2. Call completes. Y/N 3. Routine data call preempted; PNT. Y/N 4. Call completes. Y/N 5. Call completes. Y/N 6. Data call preempted. Y/N	
	<table border="1"> <tr> <td data-bbox="170 305 485 358"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td data-bbox="491 305 772 358"><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> <tr> <td colspan="2" data-bbox="170 363 772 558">Configure an E1 SS7 between SUT and Destination Node (DN). On the E1 SS7, classmark for voice and data, busy all but four trunks.</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS (Europe only)
<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3			
Configure an E1 SS7 between SUT and Destination Node (DN). On the E1 SS7, classmark for voice and data, busy all but four trunks.				
E	<b>MLPP Method 1</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY. 5. Place a call from ON5 to DN5 at ROUTINE. 6. Place a call from ON6 to DN6 at PRIORITY. 7. Place a ROUTINE call from ON7 to DN7 at ROUTINE. 8. Hang up ON5 to DN5 call 9. Place a call from ON7 to DN7 at IMMEDIATE. 10 Place a call from ON5 to DN5 at IMMEDIATE.  11. Place a call from ON1 to DN1 at FLASH 12. Place a call from ON2 to DN2 at FLASH OVERRIDE. 13. Place a call from ON5 to DN5 at IMMEDIATE. 14. Place a call from ON3 to DN3 at FLASH. 15. Place a call from ON4 to DN4 at IMMEDIATE. 16. Place a call from ON6 to DN6 at IMMEDIATE	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. Call completes over alternate route 1. Y/N 5. Call completes over alternate route 2. Y/N 6. Call completes over alternate route 2. Y/N 7. Call receives T120 busy tone. Y/N 8. Trunk is idled on alternate route 2. Y/N 9. Call completes over alternate route 2. Y/N 10. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N 11. ON2 and DN2 receive preemption notification. Y/N Call completes over direct route. Y/N 12. ON5 and DN5 receive preemption notification. Y/N Call completes over direct route. Y/N 13. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N 14. ON4 and DN4 receive preemption notification. Y/N Call completes over alternate route 1. Y/N 15. ON6 and DN6 receive preemption notification. Y/N Call completes over alternate route 2. Y/N 16. ON6 receives a BPA Y/N	
	<table border="1"> <tr> <td data-bbox="170 644 485 698"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td data-bbox="491 644 772 698"><b>Reference:</b> GSCR Sect. 3.2.3.1.2.1</td> </tr> <tr> <td colspan="2" data-bbox="170 703 772 1224">Configure an E1 SS7 between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes. <b>Provision 7 subscribers off of each node (ON1-ON7, DN1-DN7)</b></td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS
<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1			
Configure an E1 SS7 between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes. <b>Provision 7 subscribers off of each node (ON1-ON7, DN1-DN7)</b>				
		<b>Notes:</b>		

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
F	<b>MLPP Method 2</b>		1. Place a call from ON to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2		
	Configure an E1 SS7 between SUT and Destination Node (DN). On the E1 SS7, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.		5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.  7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.  10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.	5. Call completes over alternate route 1. Y/N 6. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N 7. Call completes over alternate route 2. Y/N 8. Call completes over alternate route 2. Y/N 9. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 2. Y/N 10. ON3 receives a BPA. Y/N 11. Call receives T60 busy tone. Y/N
<b>Notes:</b>				
G	<b>MLPP Precedence Call Diversion</b>		1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3		
	Configure an E1 SS7 between SUT and Destination Node (DN). On the E1 SS7, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.		5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.  7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.  10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.	5. Call completes over alternate route 1. Y/N 6. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N 7. Call completes over alternate route 2. Y/N 8. Call completes over alternate route 2. Y/N 9. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 2. Y/N 10. ON3 receives a BPA. Y/N 11. Call receives T60 busy tone. Y/N
<b>Notes:</b>				

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																														
H	<p><b>MLPP Service Domain Interaction</b></p> <p><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</p> <p><b>Reference:</b> GSCR Sect. 3.7.6</p>	<ol style="list-style-type: none"> <li>Verify SUT is capable of domain 16777215.</li> <li>Verify like service domains interaction:               <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA1. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON2 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from DNA3 to ON3. Hang up.</li> </ol> </li> <li>Verify unlike domains interaction:               <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA2. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA3. Hang up.</li> <li>Place ROUTINE call from ON3 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON3 to DNA2. Hang up.</li> </ol> </li> <li>Service domain connections:               <ol style="list-style-type: none"> <li>Place a ROUTINE call from ON2 to ON1.</li> <li>Place a PRIORITY call from DNA1 to ON1. Hang up.</li> <li>Place a ROUTINE call from DNB1 to DNA1.</li> <li>Place a FLASH call from ON1 to DNA1. Hang up.</li> <li>Place a ROUTINE call from DNB2 to ON1.</li> <li>Place an IMMEDIATE call from DNA1 to ON1. Hang up.</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>	<ol style="list-style-type: none"> <li>SUT capable of domain 16777215. Y/N</li> <li>Like domains:               <ol style="list-style-type: none"> <li>Call completes. Y/N</li> </ol> </li> <li>Unlike domains.               <ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> </ol> </li> <li>Service Domain connections:               <ol style="list-style-type: none"> <li>Call completes; connection domain is FFFFFFFF. Y/N</li> <li>DN1 gets BPA. Y/N</li> <li>Call completes; connection domain is 0. Y/N</li> <li>Call preempts; DNB1 to DNA1 link. Y/N</li> <li>Call completes. Domain is 0. Y/N</li> <li>Call preempts DNB2 to ON1 call. Y/N</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>																														
	<p>Configure an E1 SS7 between ON (SUT) and DN (DNA). Configure a non-T1.619a link between ON and DNB. Busy all but one trunk on both links. Provision 3 subscribers off of each node. Assign ON1, DNA1, and DNB1 with a Service Domain of 000000. Provision ON2, DNA2 and DNB2 with service domain FFFFFF in hexadecimal. (16777215 in Decimal). Provision ON3, DNA3 and DNB3 with no service domain. Provision the SUT &amp; DNs to have service domain 0 as the default. Use SS7 protocol analyzer to monitor the T1 SS7 messages on the signaling link.</p> 																																
	<p><b>Notes:</b></p>	<table border="1"> <thead> <tr> <th>Phone type</th> <th>Non T1.619a Link</th> <th>Interaction Correct</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td rowspan="3">T1 CAS</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital VoIP</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td rowspan="3">E1 CAS</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital VoIP</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td rowspan="3">T1 PRI (non-T1.619a)</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital VoIP</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td rowspan="3">E1 PRI (non-Q.955.3)</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital VoIP</td> <td>Y/N</td> </tr> </tbody> </table>	Phone type	Non T1.619a Link	Interaction Correct	Analog	T1 CAS	Y/N	BRI	Y/N	Digital VoIP	Y/N	Analog	E1 CAS	Y/N	BRI	Y/N	Digital VoIP	Y/N	Analog	T1 PRI (non-T1.619a)	Y/N	BRI	Y/N	Digital VoIP	Y/N	Analog	E1 PRI (non-Q.955.3)	Y/N	BRI	Y/N	Digital VoIP	Y/N
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**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
I	<b>MLPP Precedence Call Waiting</b>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:               <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accepts waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook</li> </ol> </li> <li>2. Busy with equal precedence:               <ol style="list-style-type: none"> <li>a. Place a PRIORITY call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accept waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook.</li> </ol> </li> <li>3. Busy with lower precedence:               <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1. Place ON1 on hook.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1. Place ON2 on hook.</li> <li>d. Place a FLASH call from ON2 to DN1. Place ON1 on hook.</li> <li>e. Place a FLASH OVERRIDE call from ON1 to DN1. Place all instruments on hook.</li> </ol> </li> <li>4. No answer:               <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Don't answer ON2 call.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:               <ol style="list-style-type: none"> <li>a. Call completes. Y/N</li> <li>b. DN1 receives precedence call waiting tone. Y/N</li> <li>c. ON2 to DN1 call completes. Y/N</li> <li>d. ON1 to DN1 call completes. Y/N</li> <li>e. Calls end. Y/N</li> </ol> </li> <li>2. Busy with equal precedence.               <ol style="list-style-type: none"> <li>a. Call completes. Y/N</li> <li>b. DN1 receives precedence call waiting tone. Y/N</li> <li>c. ON2 to DN1 call completes. Y/N</li> <li>d. ON1 to DN1 call completes. Y/N</li> <li>e. Calls end. Y/N</li> </ol> </li> <li>3. Busy with lower precedence.               <ol style="list-style-type: none"> <li>a. Call completes. Y/N</li> <li>b. DN1 doesn't receive precedence call waiting tone. Y/N</li> <li>c. DN1 does not receive precedence Call complete and preempted ROUTINE call. Y/N</li> <li>d. DN1 does not receive precedence call waiting tone. Y/N</li> <li>e. DN1 does not receive precedence Call complete and preempted PRIORITY call. Y/N</li> <li>f. DN1 does not receive precedence call waiting tone. Y/N</li> <li>g. DN1 does not receive precedence Call complete and preempted IMMEDIATE call. Y/N</li> <li>h. DN1 does not receive precedence call waiting tone. Y/N</li> <li>i. DN1 does not receive precedence Call complete and preempted FLASH call. Y/N</li> </ol> </li> <li>4. No answer:               <ol style="list-style-type: none"> <li>a. Call completes. Y/N</li> <li>b. DN1 receives precedence call waiting tone. Y/N</li> <li>c. ON2 call diverts to alternate DN# within 15-45 sec. Y/N</li> </ol> </li> </ol>		
	<table border="1"> <tr> <td data-bbox="170 305 485 358"><b>Requirement:</b> Conditional</td> <td data-bbox="491 305 772 358"><b>Reference:</b> GSCR Sect. 3.8.1</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.1	<b>Notes:</b>	
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.1			
Configure an E1 SS7 between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). One instrument is required on the Destination Node (DN1). Provision all subscribers with call waiting. Provision all subscribers with precedence call waiting tone.	<ol style="list-style-type: none"> <li>1. Call forwarding busy higher incoming precedence.               <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> </ol> </li> <li>c. Place an IMMEDIATE call from ON1 to DN1.</li> <li>d. Place a FLASH call from ON2 to DN1.</li> <li>e. Place a FLASH OVERRIDE call from ONA to DNA.</li> <li>f. Place all instruments on hook.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call forward busy higher incoming precedence.               <ol style="list-style-type: none"> <li>a. Call completes. Y/N</li> <li>b. Call Forward Busy not invoked. Y/N</li> <li>c. Call complete and preempted ROUTINE call. Y/N</li> <li>d. Call Forward Busy not invoked. Y/N</li> <li>e. Call complete and preempted PRIORITY call. Y/N</li> <li>f. Call Forward Busy not invoked. Y/N</li> <li>g. Call complete and preempted IMMEDIATE call. Y/N</li> <li>h. Call Forward Busy not invoked. Y/N</li> <li>i. Call complete and preempted FLASH call. Y/N</li> <li>j. Calls end. Y/N</li> </ol> </li> </ol>			
<table border="1"> <tr> <td data-bbox="170 1154 485 1208"><b>Requirement:</b> Conditional</td> <td data-bbox="491 1154 772 1208"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	<b>Notes:</b>		
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2				
Configure an E1 SS7 between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Two instrument are required on the SUT (DN1, DN2). Provision call forwarding: DN1 call forward to DN2.					

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
J C o n t i n u e d	<b>MLPP</b> <b>Call Forwarding (continued)</b>	2. Call forwarding busy equal or lower precedence. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN1. c. Answer DN2. d. Place all instruments on hook.	2. Call forward busy equal or lower precedence. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N		
	<table border="1"> <tr> <td data-bbox="170 305 485 358"><b>Requirement:</b> Conditional</td> <td data-bbox="491 305 772 358"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	3. Call forwarding busy non-preemptable. a. Place a ROUTINE call from ON1 to DN3 b. Place a PRIORITY call from ON2 to DN3. c. Answer DN2. d. Place all instruments on hook.	3. Call forward non-preemptable. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2			
Configure an E1 SS7 between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.	e. Place a ROUTINE call from ON1 to DN3. f. Place a ROUTINE call from ON2 to DN3. g. Answer DNB. h. Place all instruments on hook. i. Place a PRIORITY call from ON1 to DN3. j. Place a PRIORITY call from ON2 to DN3. k. Answer DN2. l. Place all instruments on hook. m. Place a PRIORITY call from ON1 to DN3. n. Place a ROUTINE call from ON2 to DN3. o. Answer DN2. p. Place all instruments on hook. 4. Call forwarding busy precedence level preserved. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN2. c. Place a PRIORITY call from ON3 to DN1.  d. Place all instruments on hook. e. Place a PRIORITY call from ON1 to DN1. f. Place a PRIORITY call from ON2 to DN1. g. Allow call to ring-no-answer on DN2. h. Answer attendant console. i. Place all instruments on hook.	e. Call completes. Y/N f. Call forwards to DN2. Y/N g. ON2 to DN2 call completes. Y/N h. Call ends. Y/N i. Call completes. Y/N j. Call forwards to DN2. Y/N k. ON2 to DN2 call completes. Y/N l. Call ends. Y/N m. Call completes. Y/N n. Call forwards to DN2. Y/N o. ON2 to DN2 call completes. Y/N p. Call ends. Y/N 4. Call forward Precedence level preserved. a. Call completes. Y/N b. Call completes. Y/N c. Call forwards to DN2. Y/N ON3 receives precedence ring-back Y/N ON2 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing. Y/N Call complete and preempted ROUTINE call. Y/N d. Calls end. Y/N e. Call completes. Y/N f. Call forwards to DN2. Y/N g. Call routes to attendant console. Y/N h. ON2 to attendant console call completes. Y/N i. Calls end. Y/N			
<b>Notes:</b>					

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
J  C o n t i n u e d	<b>MLPP Call Forwarding (continued)</b>	5. Call forwarding –no reply at called station. a. Place a ROUTINE call from ON1 to DN1 and allow call to ring-no-answer on DN1. b. Answer DN. c. Place all instruments on hook. d. Place a PRIORITY call from ON1 to DN2. e. Place an IMMEDIATE call from ON2 to DN1 and allow call to ring-no-answer on DN1.  f. Place all instruments on hook. g. Place a PRIORITY call from ON1 to DN1 and allow call to ring-no-answer on DN1. h. Allow call to ring-no-answer on DN2. i. Answer attendant console. j. Place all instruments on hook.	5. Call forwarding –no reply at called station. a. Call forwards to DN2. Y/N b. ON1 to DN2 call completes. Y/N c. Call ends. Y/N d. Call completes. Y/N e. Call forwards to DN2. Y/N ON2 receives precedence ring-back. Y/N ON1 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing Y/N Call complete and preempted PRIORITY call Y/N f. Call ends. Y/N g. Call forwards to DN2. Y/N  h. Call routes to attendant console. Y/N i. ON1 to attendant console call completes. Y/N j. Calls end. Y/N
	<table border="1"> <tr> <td data-bbox="170 315 485 367"><b>Requirement:</b> Conditional</td> <td data-bbox="491 315 772 367"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table> <p>Configure an E1 SS7 between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.</p>		
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2		
K	<b>MLPP Call Transfer</b>	1. Call transfer (normal) interaction. a. Place a PRIORITY call from ON1 to DN1. b. DNA normal call transfers ON1 to DN2. c. Answer DN2. DN1 Hangs up d. Place a ROUTINE call from ON2 to DN2. e. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. g. Place ON2 on hook. h. Place an IMMEDIATE call from ON2 to DN2.  i. Place all instruments on hook. j. Place a PRIORITY call from ON1 to DN1. k. DNA normal call transfers ON1 to DN2.  l. DNA hangs up before DN2 answers. m. Answer DN2. n. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. o. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. p. Place an IMMEDIATE call from ON2 to DN2.  q. Place all instruments on hook.	1. Call transfer (normal) interaction. a. Call completes. Y/N b. Normal transfer completes. Y/N c. ON1 to DN2 call completes. Y/N d. ON2 receives standard busy tone. Y/N e. Call ends. Y/N f. ON2 receives a BPA Y/N g. Call ends. Y/N h. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N i. Call ends. Y/N j. Call completes. Y/N k. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N l. ON1 receives a precedence ringback. Y/N m. ON1 to DN2 call completes. Y/N n. ON2 receives standard busy tone. Y/N  o. ON2 receives a BPA Y/N  p. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N q. Call ends. Y/N
	<table border="1"> <tr> <td data-bbox="170 867 485 919"><b>Requirement:</b> Conditional</td> <td data-bbox="491 867 772 919"><b>Reference:</b> GSCR Sect. 3.8.3</td> </tr> </table> <p>Configure an E1 SS7 between Origination Node (ON) and SUT Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal call transfer.</p>		
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
K C o n t i n u e d	<b>MLPP</b> <b>Call Transfer (continued)</b>	2. Call transfer (explicit) interaction. a. Place a PRIORITY call from DN1 to ON1. b. Place ON1 on hold. c. Call transfer from DN1 to DN2. d. Answer DN2. DN1 Hangs up e. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. g. Place an IMMEDIATE call from ON2 to DN2.  h. Place all instruments on hook. i. Place a PRIORITY call from DN1 to ON1. j. DNA call transfers ON1 to DN2. DNA hangs up before DN2 answers.  k. Answer DN2. l. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. m. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. n. Place an IMMEDIATE call from ON2 to DN2.  o. Place all instruments on hook.	2. Call transfer (explicit) interaction. a. Call completes. Y/N b. ON1 on hold. Y/N c. Explicit transfer completes. Y/N d. ON1 to DN2 call completes. Y/N e. ON2 receives standard busy tone. Y/N  f. ON2 receives a BPA Y/N  g. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N h. Call ends. Y/N i. Call completes. Y/N j. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N ON1 receives a precedence ringback. Y/N k. ON1 to DN2 call completes. Y/N l. ON2 receives standard busy tone. Y/N  m. ON2 receives a BPA Y/N  n. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N o. Call ends. Y/N	
	<table border="1" data-bbox="172 316 772 365"> <tr> <td data-bbox="172 316 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="493 316 772 365"><b>Reference:</b> GSCR Sect. 3.8.3</td> </tr> </table> Configure an E1 SS7 between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal call transfer.	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3	<b>Notes:</b>
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3			
L	<b>MLPP</b> <b>Call Hold</b>	1. Place a ROUTINE call from ON1 to DN1. 2. DNA place ON1 on hold and DN1 go on hook. 3. DNA goes off hook and take ON1 off hold. 4. Place all instruments on hook. 5. Place a ROUTINE call from ON1 to DN1. 6. DNA places ON1 on hold. 7. Place a PRIORITY call from ON2 to ON1.  8. Place all instruments on hook. 9. Place a ROUTINE call from ON1 to DN1. 10. DN1 hook flashes and places ON1 on hold.	1. Call completes. Y/N 2. ON1 on hold. Y/N 3. ON1 to DN1 call completes. Y/N 4. Call ends. Y/N 5. Call completes. Y/N 6. ON1 on hold. Y/N 7. ON1 receives preemption notification Y/N DN1 receives PNT only if DN1 attempts to retrieve ON1 while ON1 is receiving PNT. Y/N Call complete and preempted ON1 held call Y/N 8. Call ends. Y/N 9. Call completes. Y/N 10. ON1 on hold. Y/N	
	<table border="1" data-bbox="172 1016 772 1065"> <tr> <td data-bbox="172 1016 485 1065"><b>Requirement:</b> Conditional</td> <td data-bbox="493 1016 772 1065"><b>Reference:</b> GSCR Sect. 3.8.4</td> </tr> </table> Configure an E1 SS7 between SUT and Destination Node (DN).	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4	<b>Notes:</b>
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4			

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
L C o n t i n u e d	<b>MLPP Call Hold (continued)</b>	11. Place a ROUTINE call from DN1 to ON2. 12. Place a PRIORITY call from DN2 to DN1.	11. Call completes. Y/N 12. DN1, ON1 and ON2 receive PNT. Y/N DN2 receives precedence ringback Y/N DN2 to DNA PRIORITY call completed Y/N	
	<table border="1" data-bbox="170 315 772 367"> <tr> <td data-bbox="170 315 485 367"><b>Requirement:</b> Conditional</td> <td data-bbox="491 315 772 367"><b>Reference:</b> GSCR Sect. 3.8.4</td> </tr> </table> Configure an E1 SS7 link between SUT and Destination Node (DN).	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4	13. Place all instruments on hook. 14. Place a ROUTINE call from ON1 to DN1. 15. DNA hook flashes and places ON1 on hold 16. Place a ROUTINE call from DN1 to DN2. 17. Place a PRIORITY call from DN3 to DN1.  18. Place all instruments on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4			
M	<b>MLPP Three-way Calling (TWC)</b>	1. TWC, Precedence Level Preserved Each Call.	1. TWC, Precedence Level Preserved Each Call Y/N a. Call completes. Y/N	
	<table border="1" data-bbox="170 737 772 789"> <tr> <td data-bbox="170 737 485 789"><b>Requirement:</b> Conditional</td> <td data-bbox="491 737 772 789"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table> Configure an E1 SS7 between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	a. Place a ROUTINE call from ON1 to DN1. b. DNA does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. c. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. e. Place an IMMEDIATE call from ON2 to DN2.  f. Place all calls on hook. g. Place a ROUTINE call from ON1 to DN1. h. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. i. Place a PRIORITY call from ON2 to DN1. Place ON2 on hook j. Place an IMMEDIATE call from ON2 to DN1.  k. Place all calls on hook
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
		<b>Notes:</b>		

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
M C o n t i n u e d	<b>MLPP</b> <b>Three-way Calling (TWC) (continued)</b>	l. Place a ROUTINE call from ON1 to DN1. m. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2.	l. Call completes. Y/N m. TWC complete between ON1, DN1, and DN2. Y/N	
	<table border="1" data-bbox="163 305 772 365"> <tr> <td data-bbox="163 305 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="485 305 772 365"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table> <p data-bbox="163 365 772 1170">Configure an E1 SS7 link between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ONA, ONB). Two instruments are required on the Destination Node (DNA, DNB). Provision DNA with normal and explicit calls transfer. Provision the Destination Node with alternate party diversion to the attendant console.</p>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	n. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. o. Place a PRIORITY call from ON2 to ON1. Place ON2 on hook.  p. Place a PRIORITY call from ON2 to DN2. Place all calls on hook 2. TWC, Precedence Level Preserved, Split Operation a. Place a ROUTINE call from ON1 to DN1. b. DN1 does a hook flash and calls DN2 at PRIORITY c. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place all calls on hook. e. Place a PRIORITY call from ON2 to DN1. Place all calls on hook f. Place a ROUTINE call from ON1 to DN1. g. DN1 does a hook flash and calls DN2 at PRIORITY.  h. Place a PRIORITY call from ON2 to ON1. Place all calls on hook.  i. Place a ROUTINE call from ON1 to DN1. j. DN1 does a hook flash and calls DN2 at PRIORITY.  k. Place an IMMEDIATE call from ON2 to DN2.  l. Place all calls on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
<b>Notes:</b>				

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
N	<b>MLPP Call Pick-Up</b>	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON1 to DN1. Don't answer.</li> <li>2. Have DN2 pick-up call.</li> <li>3. Hang up calls.</li> <li>4. Place ROUTINE call from ON1 to DN1; don't answer.</li> <li>5. Place PRORITY call from ON2 to DN2; don't answer.</li> <li>6. Have DN3 do call pick-up.</li> <li>7. Hang up calls.</li> <li>8. Place IMMEDIATE call from ON1 to DN1; don't answer.</li> <li>9. Place IMMEDIATE call from ON2 to DN2; don't answer.</li> <li>10. Have DN3 do call-pick up.</li> <li>11. Hang up all calls.</li> <li>12. Place FLASH call from ON1 to DN1. Answer.</li> <li>13. Place FLASH OVERRIDE call from DN2 to ON2.</li> <li>14. PLACE FLASH OVERRIDE call from ON3 to DN2. Don't answer.</li> <li>15. Attempt to call pick -up ON2 via DN3.</li> <li>16. DN2 Answer ON2 call.</li> <li>17. Hang up all calls.</li> <li>18. Repeat for other phone types.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call rings. Y/N</li> <li>2. DN2 able to pick-up DN1 call. Y/N</li> <li>3. Calls end. Y/N</li> <li>4. Call completes; DN1 rings. Y/N</li> <li>5. Call completes; DN2 rings at precedence. Y/N</li> <li>6. DN3 call pick-up picks up ON2. Y/N</li> <li>7. Calls end. Y/N</li> <li>8. Call competes and precedence rings at DN1. Y/N</li> <li>9. Call completes and precedence rings at DN2. Y/N</li> <li>10. Call pick-up picks up ON1 (longest). Y/N</li> <li>11. Calls end. Y/N</li> <li>12. Call completes. Y/N</li> <li>13. Call completes. Y/N</li> <li>14. PNT sent to ON1-DN1. Y/N</li> <li>15. Call pick-up unsuccessful. Y/N</li> <li>16. ON2-DN2 call completes. Y/N</li> <li>17. Calls end, Y/N</li> <li>18. Y/N</li> </ol> <table border="1" data-bbox="1430 708 1955 1130"> <thead> <tr> <th colspan="2" data-bbox="1430 708 1955 735">Call Pick-Up</th> </tr> </thead> <tbody> <tr> <td data-bbox="1430 735 1543 833"><b>Analog</b></td> <td data-bbox="1543 735 1955 833"></td> </tr> <tr> <td data-bbox="1430 833 1543 930"><b>BRI</b></td> <td data-bbox="1543 833 1955 930"></td> </tr> <tr> <td data-bbox="1430 930 1543 1027"><b>Digital</b></td> <td data-bbox="1543 930 1955 1027"></td> </tr> <tr> <td data-bbox="1430 1027 1543 1125"><b>VoIP</b></td> <td data-bbox="1543 1027 1955 1125"></td> </tr> </tbody> </table>	Call Pick-Up		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
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<table border="1" data-bbox="163 313 772 367"> <tr> <td data-bbox="163 313 485 367"><b>Requirement:</b> Conditional</td> <td data-bbox="485 313 772 367"><b>Reference:</b> GSCR Sect. 3.8.6</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6	<p data-bbox="772 367 1417 1282">Configure an E1 SS7 link between Origination Node (ON) and SUT - Destination Node (DN). Provision a call pick-up group on the SUT comprised of three subscribers (DN1-DN3). Provision ON with 3 subscribers (ON1-ON3). Busy out all but two trunks.</p>	<p data-bbox="1417 367 2005 1282"><b>Notes:</b></p>									
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6												

**Table E-2.4.2. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																														
O	<p><b>Secure Calls</b></p> <table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td><b>Reference:</b> CJSCI 6215.01B</td> </tr> </table> <p>Configure an E1 SS7 between SUT and DN. Configure a STU-III and STE off of both SUT and DN. Provision SWTs off of each if available.</p>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> CJSCI 6215.01B	<p>Place 2 ROUTINE secure voice calls from SUT to DN via an E1 SS7 trunk using STU-III, STE, and SWT. Record the MOS and connection rate.</p> <p><b>Notes:</b></p>	<table border="1"> <thead> <tr> <th></th> <th>STU</th> <th>STE</th> <th>SWT</th> </tr> </thead> <tbody> <tr> <td><b>STU call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STU call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> </tbody> </table>		STU	STE	SWT	<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> CJSCI 6215.01B																															
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<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														
<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																														

**Table E-2.4.3. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Facsimile**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																				
A	<p><b>Facsimile</b></p> <table border="1"> <tr> <td><b>Requirement:</b> Conditional</td> <td><b>Reference:</b> JTA</td> </tr> </table> <p>Configure an E1 SS7 link between SUT and DN. Provision an analog fax off of each node.</p>	<b>Requirement:</b> Conditional	<b>Reference:</b> JTA	<p>Place 5 facsimile calls between the two facsimiles. Send the IEEE167A-1995 test sheet fro quality measurement.</p> <p><b>Notes:</b></p>	<table border="1"> <thead> <tr> <th>Call #</th> <th>Completed</th> <th>IEEE167A-1995</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Y/N</td> <td></td> </tr> <tr> <td>2</td> <td>Y/N</td> <td></td> </tr> <tr> <td>3</td> <td>Y/N</td> <td></td> </tr> <tr> <td>4</td> <td>Y/N</td> <td></td> </tr> <tr> <td>5</td> <td>Y/N</td> <td></td> </tr> </tbody> </table>	Call #	Completed	IEEE167A-1995	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	<b>Requirement:</b> Conditional	<b>Reference:</b> JTA																					
Call #	Completed	IEEE167A-1995																					
1	Y/N																						
2	Y/N																						
3	Y/N																						
4	Y/N																						
5	Y/N																						

**Table E-2.4.4. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Data**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>56K Switched Data</b> <b>Requirement:</b> TS, MFS, & EOS (Europe only)	1. Using the Sunset BRI Test set place a synchronous switched 56K data calls from SUT to DN over the E1 SS7 link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____
	<b>Reference:</b> GSCR Sect. 2.3.3  Provision an E1 SS7 link between SUT and DN.		
B	<b>64K Switched Data</b> <b>Requirement:</b> TS, MFS, & EOS (Europe only)	1. Using the Sunset BRI Test set place a synchronous switched 64K data calls from SUT to DN over the E1 SS7 link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____
	<b>Reference:</b> GSCR Sect. 2.3.3  Provision an E1 SS7 link between SUT and DN.		
C	<b>N X 56 Synchronous</b> <b>Requirement:</b> TS, MFS, & EOS (Europe only)	1. Using Sunset BRI test set place a 112 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via E1 SS7 link. 2. Using Sunset BRI test set place a 336 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via E1 SS7 link.  <b>Notes:</b>	1. Bit Errors recorded _____  2. Bit Errors recorded _____
	<b>Reference:</b> GSCR Sect. 2.3.3  Provision an E1 SS7 link between SUT and DN.		
D	<b>N X 64 Synchronous</b> <b>Requirement:</b> Ts, MFS, & EOS (Europe only)	1. Using Sunset BRI test set place a 128 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via E1 SS7 link. 2. Using Sunset BRI test set place a 384 kbps data call for 9-hr period with a 2047 pattern SUT to DN via E1 SS7 link.  <b>Notes:</b>	1. Bit Errors recorded _____  2. Bit Errors recorded _____
	<b>Reference:</b> GSCR Sect. 2.3.3  Provision an E1 SS7 link between SUT and DN.		

**Table E-2.4.4. E1 SS7 Q.735.3 Trunk Interface Test Procedures for Data**

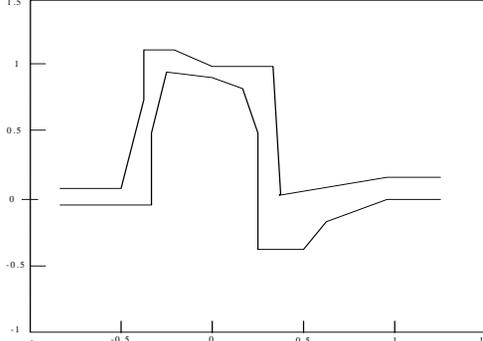
Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
E	<b>Secure Data Calls</b>	1. Place an intraswitch STU-III to STU-III secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	1. No Pattern slips. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)		No Pattern losses. Y/N
	<b>Reference:</b> CJSCI 6215.01B	2. Place an intraswitch STU-III to STE secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
	Configure an E1 SS7 link between SUT and DN. Provision the SUT and DN with a STE and one STU-III.		2. No Pattern slips. Y/N
		3. Place a STE to STE secure data call from ON to DN. Run a Bit Error Rate Test at 19.2 Kbps using a 511 test pattern for 9 hours minutes. Y/N	No Pattern losses. Y/N
		<b>Notes:</b>	Bit Error Rate better than 1X10 <sup>-9</sup> Y/N

**Table E-2.4.5. E1 SS7 Q.735.3 Trunk Interface Test Procedures for VTC**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>VTC</b>	1. Place an interswitch 384 kbps video call between VTC units via E1 SS7 link.	1. VTC completes. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)		VTC quality. _____
	<b>Reference:</b> JTA		
	Configure a T1 SS7 link between SUT and DN. Provision a VTC unit off of the SUT and DN capable of transmitting 384 kbps video.	<b>Notes:</b>	

**E-2.5 T1 CAS (MFR1, DTMF, DP) Trunk Interface.** Tables E-2.5.1 through E-2.5.5 outline the detailed test procedures for testing the SUT's T1 CAS trunk interface. This interface supports DSN MLPP through the use of CAS signaling. Objectives, criterion and data required for this interface are contained in appendix D-2.5.

**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
A	<b>Framing &amp; Line Code</b>	1. Use the Sunset T10 test set to do a Pulse Mask Analysis to test the ESF T1 Electrical Interface Characteristics. IAW G.703 and T1.102.			
	<table border="1" data-bbox="163 435 772 487"> <tr> <td data-bbox="163 435 478 487"><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</td> <td data-bbox="478 435 772 487"><b>Reference:</b> GSCR Sect. 7</td> </tr> </table> Configure 2 T1's, one with ESF/B8ZS and one with SF/AMI	<b>Requirement:</b> TS, MFS, EOS, & SMEO		<b>Reference:</b> GSCR Sect. 7	2. Use the Sunset T10 test set to do a Pulse Mask Analysis to test the T1 SF Interface Characteristics. G.703 and T1.102.
<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 7				
B	<b>Signaling Trunk Supervisory Signaling</b>	Trunk Supervisory Signaling: 1. Verify that the SUT (MFS, EOS, SMEO & PBX1) supports reverse battery trunk signaling 2. Verify that the SUT (TS, MFS & EOS) supports immediate start trunk signaling.	Trunk Supervisory Signaling: 1. MFS, EOS, SMEO & PBX1 supports reverse battery. Y/N 2. TS, MFS & EOS supports immediate start trunk signaling. Y/N		
	<table border="1" data-bbox="163 961 772 1016"> <tr> <td data-bbox="163 961 478 1016"><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</td> <td data-bbox="478 961 772 1016"><b>Reference:</b> GSCR Sect. 5.3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 5.3	<b>Notes:</b>	
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 5.3			
	<b>Signaling Abnormal operation</b>	Abnormal Wink Start: 1. Using test equipment, simulate a wink of less than 140 msec.	Abnormal Wink Start: 1. SUT ignores wink less than 140 msec. Y/N		
<table border="1" data-bbox="163 1143 772 1198"> <tr> <td data-bbox="163 1143 478 1198"><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</td> <td data-bbox="478 1143 772 1198"><b>Reference:</b> GSCR Sect. 5.3.3.3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 5.3.3.3	<b>Notes:</b>		
<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 5.3.3.3				

**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)																
B C o n t i n u e d	<b>Signaling Abnormal operation</b>		Glare Resolution: 1. The SUT shall provide the capability of provisioning each two-way interface or group of two-way interfaces (trunk group) as a controlling interface or a release interface. 2. When a SUT's interface is provisioned for wink-start operation, it shall declare a glare condition when the duration of the off-hook signal from the connecting equipment exceeds 400 milliseconds.	1. SUT capable of assigning trunk group as controlling or releasing. Y/N																
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 5.3.3.3		2. Off-hook of 400 msec seen as glare. Y/N																
			<b>Notes:</b>																	
	<b>Signaling Call for service timing/Guard Timing</b>		1. Simulate off-hook seizure of 15 to 60 msec. Simulate off-hook seizure 61 msec.  Guard Timing. 2. Verify the duration of the release-guard interval applied is ≥ 800 milliseconds and ≤ 1000 msec	1. Switch considers 15 to 60 msec invalid seizure. Y/N 61 msec a valid seizure. Y/N																
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 5.3.5/5.3.6		2. Guard interval is ≥ 800 milliseconds and ≤ 1000 msec. Y/N																
			<b>Notes:</b>																	
	<b>Signaling Satellite Interface</b>		1. Verify satellite guard timing is ≥ 1050 milliseconds and ≤ 1250 msec.	1. Satellite guard timing is ≥ 1050 milliseconds and ≤ 1250 msec. Y/N																
	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 5.3.7	<b>Notes:</b>																	
	<b>Signaling Reselect &amp; Retrial</b>		1. Verify SUT performs following operations:																	
	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 5.3.9	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: left;">Fault</th> <th style="width: 50%; text-align: left;">Operation</th> </tr> </thead> <tbody> <tr> <td>Glare detected to glare release.</td> <td>Release once if in same trunk group. If ATB, route advance.</td> </tr> <tr> <td>Sender timeout on glare hold.</td> <td>Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.</td> </tr> <tr> <td>Sender timeout on an outgoing delay dial Circuit (conditional)</td> <td>Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.</td> </tr> <tr> <td>Integrity check failure on delay dial circuit (conditional)</td> <td>Reselect once in the same trunk group. If fault or ATB, route advance.</td> </tr> <tr> <td>No wink received on wink start circuit.</td> <td>Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.</td> </tr> <tr> <td>Wink exceeds 350 msec on outgoing circuit.</td> <td>Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.</td> </tr> <tr> <td>Unexpected stop on MF circuit</td> <td>Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.</td> </tr> </tbody> </table>			Fault	Operation	Glare detected to glare release.	Release once if in same trunk group. If ATB, route advance.	Sender timeout on glare hold.	Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.	Sender timeout on an outgoing delay dial Circuit (conditional)	Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.	Integrity check failure on delay dial circuit (conditional)	Reselect once in the same trunk group. If fault or ATB, route advance.	No wink received on wink start circuit.	Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.	Wink exceeds 350 msec on outgoing circuit.	Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.	Unexpected stop on MF circuit
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Integrity check failure on delay dial circuit (conditional)	Reselect once in the same trunk group. If fault or ATB, route advance.																			
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Unexpected stop on MF circuit	Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.																			
		<b>Notes:</b>																		

**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
B C o n t i d	<b>Signaling Control Signaling</b>		1. Verify CAS control signaling.	1. Switch supports: DTMF 2-way. Y/N
	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 5.4		DP 2-way. Y/N
				DTMF in -DP out. Y/N DP in - DTMF out. Y/N MFR1 2-way. (Conditional SMEO) Y/N
			<b>Notes:</b>	
C	<b>Alarms</b>		1. Break the receive path between SUT and DN at SUT.	1. SUT enter a Local/ Red Alarm state within 2.5 ± 0.5 secs of loss of frame. Y/N
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 7.1.4 & 7.2.2		Time measured: _____ SUT sends Remote/Yellow Alarm. Y/N
	Provision a T1 CAS link between SUT and destination node (DN)			DN enters a Remote/ Yellow Alarm state. Y/N
			2. Reconnect the receive path between SUT and DN at SUT.	DN removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N
			3. Break the receive path between SUT and DN at DN.	Time measured: _____ 2. Y/N
		4. Reconnect the receive path between SUT and DN at DN.	2. SUT returns link to service within 15 + 5 secs. Y/N	
			Time measured: _____ DN removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N	
		3. DN enter a Local/ Red Alarm state within 2.5 ± 0.5 seconds of loss of frame. Y/N	Time measured: _____ DN sends remote/yellow Alarm. Y/N	
			SUT enters a Remote/ Yellow Alarm state. Y/N	
			SUT removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N	
			Time measured: _____ 2. Y/N	
			4. DN return slink to service within 15 + 5 Secs. Y/N	
			Time measured: _____ SUT removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N	
			Time measured: _____	
			<b>Notes:</b>	

**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)																																													
D	<b>WWNDP</b>		1. Verify in that the switch under test supports Interswitch 7 and 10 digit inter-switch dialing. Note: This can be validated in either translations or documentation 2. SUT supports DSN user dialing [N-P or S- 1X-KXX-XXXX]; where: N is any digit 2-9 P is any digit 0-4 S is any digit 5-9 X is any digit 0-9 K is any digit 2-8	1. Switch supports 7 and 10 digit inter-switch Dialing. Y/N																																													
	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 4.5		2. SUT supports DSN user dialing. Y/N																																													
			<b>Notes:</b>																																														
E	<b>WWNDP Route Control Digit (RCD)</b>		1. Exterior Routing. a. RCD Exterior Routing Logic.																																														
	<b>Requirement:</b> TS, MFS	<b>Reference:</b> GSCR Sect. 4.5.2.1	<table border="1" data-bbox="879 656 1692 941"> <thead> <tr> <th colspan="2">ROUTINE calls</th> </tr> <tr> <th>RCD</th> <th>Route Selected</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>1</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>2</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <td>3</td> <td>Use direct plus 1st triple.</td> </tr> <tr> <th colspan="2">Non-ROUTINE calls</th> </tr> <tr> <td>0</td> <td>All programmed routes</td> </tr> <tr> <td>1</td> <td>Use direct plus 1st and 2nd triple.</td> </tr> <tr> <td>2</td> <td>Use direct plus 1st and 3rd triple.</td> </tr> <tr> <td>3</td> <td>Use direct plus 1st triple.</td> </tr> </tbody> </table> <p data-bbox="808 967 995 990">b. ROUTINE Calls.</p> <table border="1" data-bbox="879 1016 1711 1169"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>1</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>		ROUTINE calls		RCD	Route Selected	0	Use direct plus 1st triple.	1	Use direct plus 1st triple.	2	Use direct plus 1st triple.	3	Use direct plus 1st triple.	Non-ROUTINE calls		0	All programmed routes	1	Use direct plus 1st and 2nd triple.	2	Use direct plus 1st and 3rd triple.	3	Use direct plus 1st triple.	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	3	NA	NA	2	0	3	NA	NA	3	0	3
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**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																										
E C o n t i n u e d	<b>WWNDP</b> <b>Route Control Digit (RCD) (continued)</b>	c. Calls above ROUTINE- Idle Search																											
	<table border="1"> <tr> <td data-bbox="163 305 474 360">Requirement: TS, MFS</td> <td data-bbox="474 305 772 360">Reference: GSCR Sect. 4.5.2.1</td> </tr> </table>	Requirement: TS, MFS	Reference: GSCR Sect. 4.5.2.1	<table border="1"> <thead> <tr> <th data-bbox="884 289 1045 342">RCD In</th> <th data-bbox="1045 289 1205 342">'Direct' RCD Out</th> <th data-bbox="1205 289 1367 342">1st Alternate RCD out</th> <th data-bbox="1367 289 1528 342">2nd Alternate RCD out</th> <th data-bbox="1528 289 1711 342">3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td data-bbox="884 342 1045 360">0</td> <td data-bbox="1045 342 1205 360">0</td> <td data-bbox="1205 342 1367 360">1,2, or 3</td> <td data-bbox="1367 342 1528 360">NA</td> <td data-bbox="1528 342 1711 360">NA</td> </tr> <tr> <td data-bbox="884 360 1045 378">1</td> <td data-bbox="1045 360 1205 378">0</td> <td data-bbox="1205 360 1367 378">3</td> <td data-bbox="1367 360 1528 378">NA</td> <td data-bbox="1528 360 1711 378">NA</td> </tr> <tr> <td data-bbox="884 378 1045 396">2</td> <td data-bbox="1045 378 1205 396">0</td> <td data-bbox="1205 378 1367 396">3</td> <td data-bbox="1367 378 1528 396">NA</td> <td data-bbox="1528 378 1711 396">NA</td> </tr> <tr> <td data-bbox="884 396 1045 414">3</td> <td data-bbox="1045 396 1205 414">0</td> <td data-bbox="1205 396 1367 414">3</td> <td data-bbox="1367 396 1528 414">NA</td> <td data-bbox="1528 396 1711 414">NA</td> </tr> </tbody> </table>	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	3	NA	NA	2	0	3	NA	NA	3	0	3	NA	NA
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RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out																									
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RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out																									
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**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)		Expected Result(s)																						
E C o n t i n u e d	<b>WWNDP Route Control Digit (RCD) (continued)</b>		c. Calls above ROUTINE- Idle Search																								
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RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out																							
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1	0	NA	NA	NA																							
2	0	NA	NA	NA																							
3	0	NA	NA	NA																							
F	<b>Outpulsing Digit Formats</b>		DTMF:		DTMF:																						
	Requirement: TS, MFS, EOS & SMEO	Reference: GSCR Sect. 4.5.1 & 5.4	1. Verify that DTMF precedence digits 0 through 4. (0=FO, 1=F, 2=I, 3=P, and 4=R)		1. DTMF precedence digits supported. Y/N																						
F			MFR1 (conditional for SMEO) 1. Verify SUT supports digits 0-9, KP, & S/T. 2. Precedence digits 0 through 4 (0=FO, 1=F, 2=I, 3=P, and 4=R)		MFR1: 1. SUT supports MFR1 digits. Y/N 2. MFR1 precedence digits supported. Y/N																						
			<b>Notes:</b>																								

**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
G	<b>Routing</b>		<b>TS &amp; MFS:</b>	
	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 4.2	1. Assign a direct route and nine alternate routes in the switch under test (each route with one trunk group)	1. Switch allows assignment of direct route with nine alternate routes Y/N
	Verify in software of the switch under test the following primary route and alternate route capacities		2. Assign a route (direct or alternate) with a minimum of four trunk groups in the switch under test.	2. Switch allows assignment of minimum of four trunk groups per route Y/N
			<b>EOS &amp; SMEO:</b> 1. Assign a direct route and five alternate routes in the switch under test (each route with one trunk group) 2. Assign a route (direct or alternate) with a minimum of one trunk group per route and up to 96 members per trunk group in the switch under test.	1. Switch allows assignment of direct route with five alternate routes Y/N 2. Switch allows assignment of minimum of one trunk group per route and 96 members per trunk group. Y/N
			<b>Notes:</b>	
H	<b>Trunk Groups</b>		1. Busy-out all trunks on the T1 from the SUT maintenance terminal.	1. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N
	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 2.5.5& 2.5.6	2. Break the T1 span for 60 sec. then restore. Monitor the status from the DN maintenance terminal	2. After the link is restored busy-outs remain acknowledged. Y/N
			3. Repeat the procedure from the DN	3. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N After the link is restored busy-outs remain acknowledged. Y/N
			4. Busy-out one trunk. Idle the trunk on the T1 from the DN maintenance terminal Monitor the status from the ON maintenance terminal	4. The SUT Maintenance Terminal immediately acknowledges a remote busy-out applied from the DN maintenance terminal Y/N The SUT Maintenance Terminal immediately acknowledges an idle applied from the DN maintenance terminal. Y/N
		5. Repeat with 2, 4, 8, 16, 24 trunks busied/idled	5. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N	
		6. Busy-out one trunk then idle on the T1 from the ON maintenance terminal	6. The DN Maintenance Terminal immediately acknowledges a remote busy-out applied from the SUT maintenance terminal Y/N The DN Maintenance Terminal immediately acknowledges an idle applied from the SUT maintenance terminal. Y/N	
		7. Monitor the status from the ON maintenance terminal Repeat with 2, 4, 8, 16, 24 trunks busied /idled.	7. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N	
			<b>Notes:</b>	

**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																							
I	<b>CAS to CCS Interworking</b>	<b>Line-to trunk</b>																																																								
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.10	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="777 292 982 321">Origin</th> <th data-bbox="982 292 1188 321">Route Digit</th> <th data-bbox="1188 292 1394 321">Bearer Capability</th> <th data-bbox="1394 292 1600 321">Termination</th> <th data-bbox="1600 292 1806 321">Route Digit</th> <th data-bbox="1806 292 2011 321">Bearer capability</th> </tr> </thead> <tbody> <tr><td>Analog</td><td>0/5</td><td>N/A</td><td>T1 CAS</td><td>0/5</td><td>N/A</td></tr> <tr><td>Analog</td><td>1/6</td><td>N/A</td><td>T1 CAS</td><td>1/6</td><td>N/A</td></tr> <tr><td>BRI</td><td>0/5</td><td>Speech</td><td>T1 CAS</td><td>0/5</td><td>N/A</td></tr> <tr><td>BRI</td><td>1/6</td><td>Speech</td><td>T1 CAS</td><td>1/6</td><td>N/A</td></tr> <tr><td>BRI</td><td>0/5</td><td>56K CMD</td><td>T1 CAS</td><td>1/6</td><td>N/A</td></tr> <tr><td>BRI</td><td>0/5</td><td>64K CMD</td><td>T1 CAS</td><td>1/6</td><td>N/A</td></tr> <tr><td>BRI</td><td>1/6</td><td>56K CMD</td><td>T1 CAS</td><td>1/6</td><td>N/A</td></tr> <tr><td>BRI</td><td>1/6</td><td>64K CMD</td><td>T1 CAS</td><td>1/6</td><td>N/A</td></tr> </tbody> </table>		Origin	Route Digit	Bearer Capability	Termination	Route Digit	Bearer capability	Analog	0/5	N/A	T1 CAS	0/5	N/A	Analog	1/6	N/A	T1 CAS	1/6	N/A	BRI	0/5	Speech	T1 CAS	0/5	N/A	BRI	1/6	Speech	T1 CAS	1/6	N/A	BRI	0/5	56K CMD	T1 CAS	1/6	N/A	BRI	0/5	64K CMD	T1 CAS	1/6	N/A	BRI	1/6	56K CMD	T1 CAS	1/6	N/A	BRI	1/6	64K CMD	T1 CAS	1/6	N/A
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	BRI	1/6	56K CMD	T1 CAS	1/6	N/A																																																				
	BRI	1/6	64K CMD	T1 CAS	1/6	N/A																																																				
	Configure SUT with an analog users and BRI instrument. Configure the Destination Node (DN) with analog and BRI instruments. Configure tandem node between SUT and DN with T1 SS7, T1 CAS, E1 CAS, T1 PRI and E1 PRI between each node.  Note. Speech may also be 3.1K-bearer capability.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" data-bbox="777 529 2007 558" style="text-align: center;">Trunk-to-Line</th> </tr> </thead> <tbody> <tr><td>T1 CAS</td><td>0/5</td><td>N/A</td><td>Analog</td><td>N/A</td><td>N/A</td></tr> <tr><td>T1 CAS</td><td>1/6</td><td>N/A</td><td>Analog</td><td>N/A</td><td>N/A</td></tr> <tr><td>T1 CAS</td><td>0/5</td><td>N/A</td><td>BRI</td><td>N/A</td><td>Speech</td></tr> <tr><td>T1 CAS</td><td>1/6</td><td>N/A</td><td>BRI</td><td>N/A</td><td>56K CMD</td></tr> </tbody> </table>		Trunk-to-Line						T1 CAS	0/5	N/A	Analog	N/A	N/A	T1 CAS	1/6	N/A	Analog	N/A	N/A	T1 CAS	0/5	N/A	BRI	N/A	Speech	T1 CAS	1/6	N/A	BRI	N/A	56K CMD																								
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		<b>Notes:</b>																																																								
J	<b>PCM-24/PCM-30</b>	1. Place a call from ON subscriber to DN subscriber and verify mu-law to a-law conversion.																																																								
	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 7.3	Mu-law to a-law conversion via T1 SS& link to: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th data-bbox="1428 971 1549 1000"></th> <th data-bbox="1549 971 1671 1000">E1 SS7</th> <th data-bbox="1671 971 1793 1000">E1 PRI</th> <th data-bbox="1793 971 1915 1000">E1 CAS</th> </tr> </thead> <tbody> <tr><td data-bbox="1428 1000 1549 1029"><b>Analog</b></td><td></td><td></td><td></td></tr> <tr><td data-bbox="1428 1029 1549 1058"><b>BRI</b></td><td></td><td></td><td></td></tr> <tr><td data-bbox="1428 1058 1549 1088"><b>Digital</b></td><td></td><td></td><td></td></tr> <tr><td data-bbox="1428 1088 1549 1117"><b>VoIP</b></td><td></td><td></td><td></td></tr> </tbody> </table>			E1 SS7	E1 PRI	E1 CAS	<b>Analog</b>				<b>BRI</b>				<b>Digital</b>				<b>VoIP</b>																																					
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Configure SUT as a tandem node with incoming (T1 CAS) link and outgoing (E1 SS7, E1 PRI and E1 CAS) links between origination node and destination node..		<b>Notes:</b>																																																								

**Table E-2.5.1. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
K	<b>DID</b>	1. Place ROUTINE call from ON1 to P1. 2. Place ROUTINE call from ON2 to P2.	1. Call completes. Y/N 2. Reroute to announcement, reorder tone or attendant. Y/N
	<b>Requirement:</b> MFS & EOS		3. ON1 and P1 receive PNT. Y/N ON3-P1 call completes. Y/N
	<b>Reference:</b> GSCR 2.3.2	3. Place PRIORITY call from ON3 to P1.	
	Configure the SUT to have a PBX1 connected to it with DID trunks. Configure 2 subscribers, P1 and P2 on the PBX. P2 has a restriction not to receive terminating calls. Configure ON with 3 subscribers ON1, ON2, & ON 3.	<b>Notes:</b>	

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																			
A	<b>MOS</b>	1. Place 2 calls between SUT subscriber and DN subscriber such that the calls traverse a T1 CAS link. Record the average MOS for each set of 10 calls.	Average MOS:																																																			
	<b>Requirement:</b> TS, MFS, EOS & SMEO		<table border="1"> <thead> <tr> <th>Origination</th> <th>Termination</th> <th>Ave MOS of 2 calls</th> </tr> </thead> <tbody> <tr><td>Analog</td><td>Analog</td><td></td></tr> <tr><td>Analog</td><td>BRI</td><td></td></tr> <tr><td>Analog</td><td>Digital</td><td></td></tr> <tr><td>Analog</td><td>VoIP</td><td></td></tr> <tr><td>BRI</td><td>Analog</td><td></td></tr> <tr><td>BRI</td><td>BRI</td><td></td></tr> <tr><td>BRI</td><td>Digital</td><td></td></tr> <tr><td>BRI</td><td>VoIP</td><td></td></tr> <tr><td>Digital</td><td>Analog</td><td></td></tr> <tr><td>Digital</td><td>BRI</td><td></td></tr> <tr><td>Digital</td><td>Digital</td><td></td></tr> <tr><td>Digital</td><td>VoIP</td><td></td></tr> <tr><td>VoIP</td><td>Analog</td><td></td></tr> <tr><td>VoIP</td><td>BRI</td><td></td></tr> <tr><td>VoIP</td><td>Digital</td><td></td></tr> <tr><td>VoIP</td><td>VoIP</td><td></td></tr> </tbody> </table>	Origination	Termination	Ave MOS of 2 calls	Analog	Analog		Analog	BRI		Analog	Digital		Analog	VoIP		BRI	Analog		BRI	BRI		BRI	Digital		BRI	VoIP		Digital	Analog		Digital	BRI		Digital	Digital		Digital	VoIP		VoIP	Analog		VoIP	BRI		VoIP	Digital		VoIP	VoIP	
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<b>Reference:</b> CJCSI 6215.01B																																																						
Configure a T1 CAS between SUT and DN. Provision one subscriber of each type (analog & BRI). If digital and VoIP phones are supported by the SUT configure one each off of the SUT and DN..																																																						
	<b>Notes:</b>																																																					

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
B	<p><b>MLPP Preempt Signaling</b></p> <p><b>Requirement:</b> TS, MFS, EOS &amp; SMEO</p> <p><b>Reference:</b> GSCR Sect. 3.4.1</p> <p>See TP's in C.</p>	<p><b>Answered Call: Trunk to be reused</b></p> <p><b>Unanswered Call: Trunk to be reused</b></p>	<p><b>Notes:</b></p>

Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
B	<b>MLPP Preempt Signaling (continued)</b>				
	<table border="1"> <tr> <td data-bbox="163 315 478 367">Requirement: TS, MFS, EOS &amp; SMEO</td> <td data-bbox="478 315 772 367">Reference: GSCR Sect. 3.4.1</td> </tr> </table>	Requirement: TS, MFS, EOS & SMEO	Reference: GSCR Sect. 3.4.1	<p style="text-align: center;"><b>Answered Call: Trunk not to be reused</b></p>	
	Requirement: TS, MFS, EOS & SMEO	Reference: GSCR Sect. 3.4.1			
See TP's in C.	<p style="text-align: center;"><b>Unanswered Call: Trunk not to be reused</b></p>				
	<p><b>Notes:</b></p>				

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)											
C	<b>MLPP Preempt for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call completes. Y/N 2. Call completes. Y/N 3. SUT sends correct preempt signal (see B above) Y/N											
	<table border="1" data-bbox="163 315 772 370"> <tr> <td data-bbox="163 315 485 370"><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</td> <td data-bbox="485 315 772 370"><b>Reference:</b> GSCR Sect. 3.4.1</td> </tr> </table> <p data-bbox="163 370 772 444">Configure a T1 CAS trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)</p>	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.4.1	4. Place a FLASH call from DN1 to ON2.  5. Place a FLASH OVERRIDE call from ON1 to DN2.  6. Place a FLASH OVERRIDE call from DN3 to ON3.  7. Place a FLASH OVERRIDE call from ON2 to DN1. 8. Place all instruments on hook. 9. Repeat for all phone types	ON1-DN1 receive PNT. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N 4. DN sends correct preempt signal (see B above). Y/N ON2-DN2 receive PNT. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 5. SUT sends correct preempt signal (see B above). Y/N ON3-DN3 receive PNT. Y/N DN1 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 6. DN sends correct preempt signal (see B above) Y/N ON2-DN1 receive PNT. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 7. ON2 receives BPA. Y/N 8. Calls end. Y/N 9. <table border="1" data-bbox="1423 857 1955 1084"> <thead> <tr> <th data-bbox="1423 857 1549 883"></th> <th data-bbox="1549 857 1955 883">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1423 883 1549 932"><b>Analog</b></td> <td data-bbox="1549 883 1955 932"></td> </tr> <tr> <td data-bbox="1423 932 1549 980"><b>BRI</b></td> <td data-bbox="1549 932 1955 980"></td> </tr> <tr> <td data-bbox="1423 980 1549 1029"><b>Digital</b></td> <td data-bbox="1549 980 1955 1029"></td> </tr> <tr> <td data-bbox="1423 1029 1549 1078"><b>VoIP</b></td> <td data-bbox="1549 1029 1955 1078"></td> </tr> </tbody> </table>		Preempt for Reuse (Answered)	<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>
<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.4.1													
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<b>Digital</b>														
<b>VoIP</b>														
		<b>Notes:</b>												

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)													
C o n t i n u e d	<b>MLPP Preempt for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call in ringing state. Y/N 2. Call completes. Y/N 3. SUT sends correct preempt signal (see B above). Y/N													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.4.1</td> </tr> <tr> <td colspan="2">Configure a T1 CAS trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.4.1	Configure a T1 CAS trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)		4. Hang up DN2-ON2 call. Redial DN2-ON2 at PRIORITY; don't answer. 5. Place a FLASH call from DN1 to ON2.  6. Hang up ON3 to DN3. Redial at IMMEDIATE; don't answer. 7. Place a FLASH OVERRIDE call from ON1 to DN2.  8. Hang up DN1 to ON2. Redial at FLASH; don't answer. 9. Place a FLASH OVERRIDE call from DN3 to ON3.  10. Place a FLASH OVERRIDE call from ON2 to DN1. 11. Place all instruments on hook. 12. Repeat for all phone types	3. SUT receives precedence ringback. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N 4. Call in ringing state. Y/N  5. DN sends correct preempt signal (see B above). Y/N DN2 receive PNT. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 6. Call in ringing state. Y/N 7. SUT sends correct preempt signal (see B above). Y/N ON3 receives PNT. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 8. Call in ringing state. Y/N 9. DN sends correct preempt signal (see B above). Y/N DN1 receive PNT. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 10. ON2 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 20%;"></td> <td style="text-align: center;"><b>Preempt for Reuse (Unanswered)</b></td> </tr> <tr> <td><b>Analog</b></td> <td></td> </tr> <tr> <td><b>BRI</b></td> <td></td> </tr> <tr> <td><b>Digital</b></td> <td></td> </tr> <tr> <td><b>VoIP</b></td> <td></td> </tr> </table>		<b>Preempt for Reuse (Unanswered)</b>	<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>
<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.4.1															
Configure a T1 CAS trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)																
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**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from ON2 to DN1.	1. Call completes. Y/N 2. SUT sends correct preempt signal (see B above). Y/N ON1-DN1 receive PNT. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N										
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.4.1											
	Same as above.		3. Place an IMMEDIATE call from DN2 to ON2.	3. DN sends correct preempt signal (see B above) Y/N ON2-DN1 receive PNT. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N									
			4. Place a FLASH call from ON1 to DN2.	4. SUT sends correct preempt signal (see B above). Y/N DN2-ON2 receive PNT. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N									
			6. Place a FLASH OVERRIDE call from DN1 to ON1.	6. DN sends correct preempt signal (see B above). Y/N ON1-DN2 receive PNT. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N									
			7. Place a FLASH OVERRIDE call from ON2 to DN2.	7. Call completes. Y/N									
			8. Place FLASH OVERRIDE call from DN3 to ON3	8. DN3 receives BPA. Y/N									
			9. Place all instruments on hook.	9. Calls end. Y/N									
			10. Repeat for all phone types.	10.									
			<b>Notes:</b> <table border="1" data-bbox="1430 846 1955 1073" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Preempt Not for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td></td> </tr> <tr> <td>BRI</td> <td></td> </tr> <tr> <td>Digital</td> <td></td> </tr> <tr> <td>VoIP</td> <td></td> </tr> </tbody> </table>			Preempt Not for Reuse (Answered)	Analog		BRI		Digital		VoIP
	Preempt Not for Reuse (Answered)												
Analog													
BRI													
Digital													
VoIP													

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from ON2 to DN1.	1. Call in ringing state. Y/N 2. SUT sends correct preempt signal (see B above). Y/N ON1 receives PNT. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N	
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.4.1		
	Same as above.			
			3. Hang up ON2 to DN1 call. Redial at PRIORITY; don't answer. 4. Place an IMMEDIATE call from DN2 to ON2.	3. Call in ringing state. Y/N 4. DN sends correct preempt signal (see B above). Y/N ON2-DN1 receive PNT. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N
			5. Hang up DN2 to ON2. Redial at IMMEDIATE; don't answer. 6. Place a FLASH call from ON1 to DN2.	5. Call in ringing state. Y/N 6. SUT sends correct preempt signal (see B above). Y/N DN2 receives PNT. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N
			7. Hang up ON1 to DN2 call. Redial at FLASH; don't answer. 8. Place a FLASH OVERRIDE call from DN1 to ON1.	7. Call in ringing state. Y/N 8. DN sends correct preempt signal (see B above). Y/N ON1 receives PNT. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N
			9. Place a FLASH OVERRIDE call from ON2 to DN2. 10. Place FLASH OVERRIDE call from DN3 to ON3 11. Place all instruments on hook. 12. Repeat for all phone types.	9. Call completes. Y/N 10. DN3 receives BPA. Y/N 11. Calls end. Y/N 12.

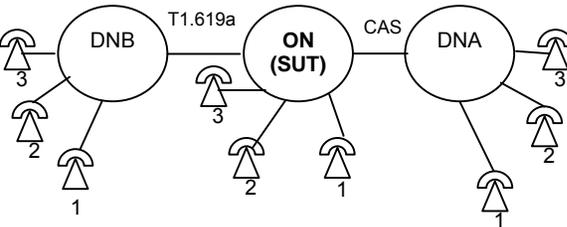
**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
D	<b>MLPP Trunk selection</b>	<b>Hunting:</b> 1. Place a ROUTINE data call between SUT and DN. 2. Place a PRIORITY data call between SUT and DN. 3. Place an IMMEDIATE voice call. Hang up all calls. 4. Place a ROUTINE data call 5. Place ROUTINE voice call 6. Place IMMEDIATE data call.	1. Call completes. Y/N 2. Call completes. Y/N 3. Routine data call preempted; PNT. Y/N 4. Call completes. Y/N 5. Call completes. Y/N 6. Data call preempted. Y/N		
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</td> <td><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3		
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3			
Configure a T1 CAS between SUT and Destination Node (DN). On the T1, classmark for voice and data, busy all but four trunks.	<b>Notes:</b>				
E	<b>MLPP Method 1</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY. 5. Place a call from ON5 to DN5 at ROUTINE. 6. Place a call from ON6 to DN6 at PRIORITY. 7. Place a ROUTINE call from ON7 to DN7 at ROUTINE. 8. Hang up ON5 to DN5 call 9. Place a call from ON7 to DN7 at IMMEDIATE. 10 Place a call from ON5 to DN5 at IMMEDIATE.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. Call completes over alternate route 1. Y/N 5. Call completes over alternate route 2. Y/N 6. Call completes over alternate route 2. Y/N 7. Call receives T120 busy tone. Y/N 8. Trunk is idled on alternate route 2. Y/N 9. Call completes over alternate route 2. Y/N 10. ON1 and DN1 receive preemption notification. Call completes over direct route. Y/N 11. ON2 and DN2 receive preemption notification. Call completes over direct route. Y/N 12. ON5 and DN5 receive preemption notification. Call completes over direct route. Y/N 13. ON3 and DN3 receive preemption notification. Call completes over alternate route 1. Y/N 14. ON4 and DN4 receive preemption notification. Call completes over alternate route 1. Y/N 15. ON6 and DN6 receive preemption notification. Call completes over alternate route 2. Y/N 16. ON6 receives a BPA Y/N		
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</td> <td><b>Reference:</b> GSCR Sect. 3.2.3.1.2.1</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1		
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1			
Configure a T1 CAS between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes. <b>Provision 7 subscribers off of each node (ON1-ON7, DN1-DN7)</b>	11. Place a call from ON1 to DN1 at FLASH 12. Place a call from ON2 to DN2 at FLASH OVERRIDE. 13. Place a call from ON5 to DN5 at IMMEDIATE. 14. Place a call from ON3 to DN3 at FLASH. 15. Place a call from ON4 to DN4 at IMMEDIATE. 16. Place a call from ON6 to DN6 at IMMEDIATE <b>Notes:</b>				

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
F	<b>MLPP Method 2</b>	<ol style="list-style-type: none"> <li>1. Place a call from ON to DN1 at ROUTINE.</li> <li>2. Place a call from ON2 to DN2 at PRIORITY.</li> <li>3. Place a call from ON3 to DN3 at ROUTINE.</li> <li>4. Place a call from ON4 to DN4 at PRIORITY.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call completes over direct route. Y/N</li> <li>2. Call completes over direct route. Y/N</li> <li>3. Call completes over alternate route 1. Y/N</li> <li>4. ON1 and DN1 receive preemption notification. Y/N</li> </ol>		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS &amp; MFS</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.2.3.1.2.2</td> </tr> </table>	<b>Requirement:</b> TS & MFS	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2	<ol style="list-style-type: none"> <li>5. Place a call from ON5 to DN5 at PRIORITY.</li> <li>6. Place a call from ON6 to DN6 at PRIORITY.</li> </ol>	<ol style="list-style-type: none"> <li>4. Call completes over direct route. Y/N</li> <li>5. Call completes over alternate route 1. Y/N</li> <li>6. ON3 and DN3 receive preemption notification. Y/N</li> </ol>
	<b>Requirement:</b> TS & MFS	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2			
	<p>Configure a T1 SS7 between SUT and Destination Node (DN). On the T1 SS7, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.</p>	<ol style="list-style-type: none"> <li>7. Place a call from ON1 to DN1 at PRIORITY.</li> <li>8. Place a call from ON3 to DN3 at ROUTINE.</li> <li>9. Place a call from ON7 to DN7 at PRIORITY.</li> </ol>	<ol style="list-style-type: none"> <li>5. Call completes over alternate route 1. Y/N</li> <li>6. ON3 and DN3 receive preemption notification. Y/N</li> <li>7. Call completes over alternate route 1. Y/N</li> <li>8. Call completes over alternate route 2. Y/N</li> <li>9. ON3 and DN3 receive preemption notification. Y/N</li> <li>10. ON3 receives a BPA. Y/N</li> <li>11. Call receives T60 busy tone. Y/N</li> </ol>		
<p><b>Notes:</b></p>	<p>10. Place a call from ON3 to DN3 at PRIORITY.</p> <p>11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.</p>	<p>10. ON3 receives a BPA. Y/N</p> <p>11. Call receives T60 busy tone. Y/N</p>			
G	<b>MLPP Precedence Call Diversion</b>	<ol style="list-style-type: none"> <li>1. Place a call from ON1 to DN1 at ROUTINE.</li> <li>2. Place a call from ON2 to DN2 at PRIORITY.</li> <li>3. Place a call from ON3 to DN3 at ROUTINE.</li> <li>4. Place a call from ON4 to DN4 at PRIORITY.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call completes over direct route. Y/N</li> <li>2. Call completes over direct route. Y/N</li> <li>3. Call completes over alternate route 1. Y/N</li> <li>4. ON1 and DN1 receive preemption notification. Y/N</li> </ol>		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3	<ol style="list-style-type: none"> <li>5. Place a call from ON5 to DN5 at PRIORITY.</li> <li>6. Place a call from ON6 to DN6 at PRIORITY.</li> </ol>	<ol style="list-style-type: none"> <li>4. Call completes over direct route. Y/N</li> <li>5. Call completes over alternate route 1. Y/N</li> <li>6. ON3 and DN3 receive preemption notification. Y/N</li> </ol>
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3			
	<p>Configure a T1 CAS between SUT and Destination Node (DN). On the T1, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.</p>	<ol style="list-style-type: none"> <li>7. Place a call from ON1 to DN1 at PRIORITY.</li> <li>8. Place a call from ON3 to DN3 at ROUTINE.</li> <li>9. Place a call from ON7 to DN7 at PRIORITY.</li> </ol>	<ol style="list-style-type: none"> <li>5. Call completes over alternate route 1. Y/N</li> <li>6. ON3 and DN3 receive preemption notification. Y/N</li> <li>7. Call completes over alternate route 1. Y/N</li> <li>8. Call completes over alternate route 2. Y/N</li> <li>9. ON3 and DN3 receive preemption notification. Y/N</li> <li>10. ON3 receives a BPA. Y/N</li> <li>11. Call receives T60 busy tone. Y/N</li> </ol>		
<p><b>Notes:</b></p>	<p>10. Place a call from ON3 to DN3 at PRIORITY.</p> <p>11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.</p>	<p>10. ON3 receives a BPA. Y/N</p> <p>11. Call receives T60 busy tone. Y/N</p>			

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																
H	<p><b>MLPP</b> <b>Service Domain Interaction</b></p>	<ol style="list-style-type: none"> <li>Verify SUT is capable of domain 16777215.</li> <li>Verify like service domains interaction:               <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA1. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON2 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from DNA3 to ON3. Hang up.</li> </ol> </li> <li>Verify unlike domains interaction:               <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA2. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA3. Hang up.</li> <li>Place ROUTINE call from ON3 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON3 to DNA2. Hang up.</li> </ol> </li> <li>Service domain connections:               <ol style="list-style-type: none"> <li>Place a ROUTINE call from ON2 to ON1.</li> <li>Place a PRIORITY call from DNA1 to ON1. Hang up.</li> <li>Place a ROUTINE call from DNB1 to DNA1.</li> <li>Place a FLASH call from ON1 to DNA1. Hang up.</li> <li>Place a ROUTINE call from DNB2 to ON1.</li> <li>Place an IMMEDIATE call from DNA1 to ON1. Hang up.</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>	<ol style="list-style-type: none"> <li>SUT capable of domain 16777215. Y/N</li> <li>Like domains:               <ol style="list-style-type: none"> <li>Call completes. Y/N</li> </ol> </li> <li>Unlike domains:               <ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> </ol> </li> <li>Service Domain connections:               <ol style="list-style-type: none"> <li>Call completes; connection domain is FFFFFFFF. Y/N</li> <li>DN1 gets BPA. Y/N</li> <li>Call completes; connection domain is 0. Y/N</li> <li>Call preempts; DNB1 to DNA1 link. Y/N</li> <li>Call completes. Domain is 0. Y/N</li> <li>Call preempts DNB2 to ON1 call. Y/N</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>																																
	<p><b>Requirement:</b> TS, MFS, EOS, &amp; SMEO</p> <p><b>Reference:</b> GSCR Sect. 3.7.6</p> <p>Configure a T1 CAS between ON (SUT) and DN (DNA). Configure a T1.619a link between ON and DNB. Busy all but one trunk on both links. Provision 3 subscribers off of each node. Assign ON1, DNA1, and DNB1 with a Service Domain of 000000. Provision ON2, DNA2 and DNB2 with service domain FFFFFFFF in hexadecimal. (16777215 in Decimal). Provision ON3, DNA3 and DNB3 with no service domain. Provision the SUT &amp; DNs to have service domain 0 as the default. Use SS7 protocol analyzer to monitor the T1 SS7 messages on the signaling link.</p>																																		
		<p><b>Notes:</b></p>	<table border="1"> <thead> <tr> <th>Phone type</th> <th>Non T1.619a Link</th> <th>Interaction Correct</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td rowspan="3">T1 CAS</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td rowspan="3">E1 CAS</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td rowspan="3">T1 PRI (non-T1.619a)</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td rowspan="3">E1 PRI (non-Q.955.3)</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td></td> <td>Y/N</td> </tr> </tbody> </table>	Phone type	Non T1.619a Link	Interaction Correct	Analog	T1 CAS	Y/N	BRI	Y/N	Digital	Y/N	VoIP	E1 CAS	Y/N	Analog	Y/N	BRI	Y/N	Digital	T1 PRI (non-T1.619a)	Y/N	VoIP	Y/N	Analog	E1 PRI (non-Q.955.3)	Y/N	BRI	Y/N	Digital	Y/N	VoIP		Y/N
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**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																												
I	<b>MLPP Precedence Call Waiting</b>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:                             <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accepts waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook</li> </ol> </li> <li>2. Busy with equal precedence:                             <ol style="list-style-type: none"> <li>a. Place a PRIORITY call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accept waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook.</li> </ol> </li> <li>3. Busy with lower precedence:                             <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1. Place ON1 on hook.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1. Place ON2 on hook.</li> <li>d. Place a FLASH call from ON2 to DN1. Place ON1 on hook.</li> <li>e. Place a FLASH OVERRIDE call from ON1 to DN1. Place all instruments on hook.</li> </ol> </li> <li>4. No answer:                             <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Don't answer ON2 call.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>2. Busy with equal precedence.                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>3. Busy with lower precedence.                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 doesn't receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call completes and preempted ROUTINE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted PRIORITY call</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted IMMEDIATE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted FLASH call</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>4. No answer:                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 call diverts to alternate DN# within 15-45 sec.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 doesn't receive precedence call waiting tone.	Y/N	Call completes and preempted ROUTINE call.	Y/N	c. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted PRIORITY call	Y/N	d. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted IMMEDIATE call.	Y/N	e. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted FLASH call	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 call diverts to alternate DN# within 15-45 sec.	Y/N
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J	<b>MLPP Call Forwarding</b>	<ol style="list-style-type: none"> <li>1. Call forwarding busy higher incoming precedence.                             <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> </ol> </li> <li>c. Place an IMMEDIATE call from ON1 to DN1.</li> <li>d. Place a FLASH call from ON2 to DN1.</li> <li>e. Place a FLASH OVERRIDE call from ONA to DNA.</li> <li>f. Place all instruments on hook.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call forward busy higher incoming precedence.                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted ROUTINE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted PRIORITY call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted IMMEDIATE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted FLASH call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>f. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. Call Forward Busy not invoked.	Y/N	Call complete and preempted ROUTINE call.	Y/N	c. Call Forward Busy not invoked.	Y/N	Call complete and preempted PRIORITY call.	Y/N	d. Call Forward Busy not invoked.	Y/N	Call complete and preempted IMMEDIATE call.	Y/N	e. Call Forward Busy not invoked.	Y/N	Call complete and preempted FLASH call.	Y/N	f. Calls end.	Y/N																								
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Configure a T1 CAS between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the SUT (DN1, DN2). Provision call forwarding: DN1 call forward to DN2.																																															

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
J C o n t i n u e d	<b>MLPP</b> <b>Call Forwarding (continued)</b>	2. Call forwarding busy equal or lower precedence. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN1. c. Answer DN2. d. Place all instruments on hook. 3. Call forwarding busy non-preemptable. a. Place a ROUTINE call from ON1 to DN3. b. Place a PRIORITY call from ON2 to DN3. c. Answer DN2. d. Place all instruments on hook. e. Place a ROUTINE call from ON1 to DN3. f. Place a ROUTINE call from ON2 to DN3. g. Answer DNB. h. Place all instruments on hook. i. Place a PRIORITY call from ON1 to DN3. j. Place a PRIORITY call from ON2 to DN3. k. Answer DN2. l. Place all instruments on hook. m. Place a PRIORITY call from ON1 to DN3. n. Place a ROUTINE call from ON2 to DN3. o. Answer DN2. p. Place all instruments on hook. 4. Call forwarding busy precedence level preserved. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN2. c. Place a PRIORITY call from ON3 to DN1.  d. Place all instruments on hook. e. Place a PRIORITY call from ON1 to DN1. f. Place a PRIORITY call from ON2 to DN1. g. Allow call to ring-no-answer on DN2. h. Answer attendant console. i. Place all instruments on hook  <b>Notes:</b>	2. Call forward busy equal or lower precedence. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N 3. Call forward non-preemptable. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N e. Call completes. Y/N f. Call forwards to DN2. Y/N g. ON2 to DN2 call completes. Y/N h. Call ends. Y/N i. Call completes. Y/N j. Call forwards to DN2. Y/N k. ON2 to DN2 call completes. Y/N l. Call ends. Y/N m. Call completes. Y/N n. Call forwards to DN2. Y/N o. ON2 to DN2 call completes. Y/N p. Call ends. Y/N 4. Call forward Precedence level preserved. a. Call completes. Y/N b. Call completes. Y/N c. Call forwards to DN2. Y/N ON3 receives precedence ring-back Y/N ON2 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing. Y/N Call complete and preempted ROUTINE call. Y/N d. Calls end. Y/N e. Call completes. Y/N f. Call forwards to DN2. Y/N g. Call routes to attendant console. Y/N h. ON2 to attendant console call completes. Y/N i. Calls end. Y/N		
	<table border="1"> <tr> <td data-bbox="163 310 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="485 310 772 365"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table>			<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2
	<b>Requirement:</b> Conditional			<b>Reference:</b> GSCR Sect. 3.8.2	
Configure a T1 CAS between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.					

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
J  C o n t i n u e d	<b>MLPP Call Forwarding (continued)</b>		5. Call forwarding –no reply at called station. a. Place a ROUTINE call from ON1 to DN1 and allow call to ring-no-answer on DN1. b. Answer DN. c. Place all instruments on hook. d. Place a PRIORITY call from ON1 to DN2. e. Place an IMMEDIATE call from ON2 to DN1 and allow call to ring-no-answer on DN1.  f. Place all instruments on hook. g. Place a PRIORITY call from ON1 to DN1 and allow call to ring-no-answer on DN1. h. Allow call to ring-no-answer on DN2. i. Answer attendant console. j. Place all instruments on hook.	5. Call forwarding –no reply at called station. a. Call forwards to DN2. Y/N b. ON1 to DN2 call completes. Y/N c. Call ends. Y/N d. Call completes. Y/N e. Call forwards to DN2. Y/N ON2 receives precedence ring-back. Y/N ON1 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing Y/N Call complete and preempted PRIORITY call Y/N f. Call ends. Y/N g. Call forwards to DN2. Y/N  h. Call routes to attendant console. Y/N i. ON1 to attendant console call completes. Y/N j. Calls end. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2		
K	<b>MLPP Call Transfer</b>		1. Call transfer (normal) interaction. a. Place a PRIORITY call from ON1 to DN1. b. DNA normal call transfers ON1 to DN2. c. Answer DN2. DN1 Hangs up d. Place a ROUTINE call from ON2 to DN2. e. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. g. Place ON2 on hook. h. Place an IMMEDIATE call from ON2 to DN2.  i. Place all instruments on hook. j. Place a PRIORITY call from ON1 to DN1. k. DNA normal call transfers ON1 to DN2.  l. DNA hangs up before DN2 answers. m. Answer DN2. n. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. o. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. p. Place an IMMEDIATE call from ON2 to DN2.  q. Place all instruments on hook.	1. Call transfer (normal) interaction. a. Call completes. Y/N b. Normal transfer completes. Y/N c. ON1 to DN2 call completes. Y/N d. ON2 receives standard busy tone. Y/N e. Call ends. Y/N f. ON2 receives a BPA Y/N g. Call ends. Y/N h. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N i. Call ends. Y/N j. Call completes. Y/N k. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N l. ON1 receives a precedence ringback. Y/N m. ON1 to DN2 call completes. Y/N n. ON2 receives standard busy tone. Y/N  o. ON2 receives a BPA Y/N  p. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N q. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
K C o n t i n u e d	<b>MLPP Call Transfer</b>	2. Call transfer (explicit) interaction. a. Place a PRIORITY call from DN1 to ON1. b. Place ON1 on hold. c. Call transfer from DN1 to DN2. d. Answer DN2. DN1 Hangs up e. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. g. Place an IMMEDIATE call from ON2 to DN2.  h. Place all instruments on hook. i. Place a PRIORITY call from DN1 to ON1. j. DNA call transfers ON1 to DN2. DNA hangs up before DN2 answers.  k. Answer DN2. l. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. m. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. n. Place an IMMEDIATE call from ON2 to DN2.  o. Place all instruments on hook.  <b>Notes:</b>	2. Call transfer (explicit) interaction. a. Call completes. Y/N b. ON1 on hold. Y/N c. Explicit transfer completes. Y/N d. ON1 to DN2 call completes. Y/N e. ON2 receives standard busy tone. Y/N  f. ON2 receives a BPA Y/N  g. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N h. Call ends. Y/N i. Call completes. Y/N j. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N ON1 receives a precedence ringback. Y/N k. ON1 to DN2 call completes. Y/N l. ON2 receives standard busy tone. Y/N  m. ON2 receives a BPA Y/N  n. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N o. Call ends. Y/N
	<table border="1" data-bbox="170 315 772 363"> <tr> <td data-bbox="170 315 478 363"><b>Requirement:</b> Conditional</td> <td data-bbox="485 315 772 363"><b>Reference:</b> GSCR Sect. 3.8.3</td> </tr> </table> Configure a T1 CAS between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal call transfer.		
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		
L	<b>MLPP Call Hold</b>	1. Place a ROUTINE call from ON1 to DN1. 2. DNA place ON1 on hold and DN1 go on hook. 3. DNA goes off hook and take ON1 off hold. 4. Place all instruments on hook. 5. Place a ROUTINE call from ON1 to DN1. 6. DNA places ON1 on hold. 7. Place a PRIORITY call from ON2 to ON1.  8. Place all instruments on hook. 9. Place a ROUTINE call from ON1 to DN1. 10. DN1 hook flashes and places ON1 on hold.  <b>Notes:</b>	1. Call completes. Y/N 2. ON1 on hold. Y/N 3. ON1 to DN1 call completes. Y/N 4. Call ends. Y/N 5. Call completes. Y/N 6. ON1 on hold. Y/N 7. ON1 receives preemption notification Y/N DN1 receives PNT only if DN1 attempts to retrieve ON1 while ON1 is receiving PNT. Y/N Call complete and preempted ON1 held call Y/N 8. Call ends. Y/N 9. Call completes. Y/N 10. ON1 on hold. Y/N
	<table border="1" data-bbox="170 1018 772 1066"> <tr> <td data-bbox="170 1018 478 1066"><b>Requirement:</b> Conditional</td> <td data-bbox="485 1018 772 1066"><b>Reference:</b> GSCR Sect. 3.8.4</td> </tr> </table> Configure a T1 CAS between SUT and Destination Node (DN).		
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4		

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
L C o n t i n u e d	<b>MLPP</b> <b>Call Hold (continued)</b>	11. Place a ROUTINE call from DN1 to ON2. 12. Place a PRIORITY call from DN2 to DN1.	11. Call completes. Y/N 12. DN1, ON1 and ON2 receive PNT. Y/N DN2 receives precedence ringback Y/N DN2 to DNA PRIORITY call completed Y/N	
	<table border="1"> <tr> <td data-bbox="172 316 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="493 316 772 365"><b>Reference:</b> GSCR Sect. 3.8.4</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4	13. Place all instruments on hook. 14. Place a ROUTINE call from ON1 to DN1. 15. DNA hook flashes and places ON1 on hold 16. Place a ROUTINE call from DN1 to DN2. 17. Place a PRIORITY call from DN3 to DN1.  18. Place all instruments on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4			
M	<b>MLPP</b> <b>Three-way Calling (TWC)</b>	1. TWC, Precedence Level Preserved Each Call. a. Place a ROUTINE call from ON1 to DN1. b. DNA does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. c. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. e. Place an IMMEDIATE call from ON2 to DN2.  f. Place all calls on hook. g. Place a ROUTINE call from ON1 to DN1. h. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. i. Place a PRIORITY call from ON2 to DN1. Place ON2 on hook j. Place an IMMEDIATE call from ON2 to DN1.  k. Place all calls on hook	1. TWC, Precedence Level Preserved Each Call a. Call completes. Y/N b. TWC complete between ON1, DN1, and DN2. Y/N  c. ON2 receives standard busy tone. Y/N  d. ON2 receives BPA. Y/N  e. Call completed and preempts PRIORITY call Y/N DN2 receives preempt notification. Y/N ON1 and DN1 call remains connected Y/N f. Calls end. Y/N g. Call completes. Y/N h. TWC complete between ON1, DN1, and DN2. Y/N  i. ON2 receives a BPA. Y/N  j. Call completed and preempts DNA1. Y/N DN1 receives preempt notification. Y/N ON1 and DN2 call remains connected and receive a short 2 second preempt tone Y/N ON2 to DN1 call completed Y/N k. Calls end. Y/N	
	<table border="1"> <tr> <td data-bbox="172 657 485 706"><b>Requirement:</b> Conditional</td> <td data-bbox="493 657 772 706"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	Configure a T1 CAS between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
M C o n t i n u e d	<b>MLPP</b> <b>Three-way Calling (TWC) (continued)</b>	l. Place a ROUTINE call from ON1 to DN1. m. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2.	l. Call completes. Y/N m. TWC complete between ON1, DN1, and DN2. Y/N	
	<table border="1" data-bbox="172 319 772 365"> <tr> <td data-bbox="172 319 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="493 319 772 365"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table> <p data-bbox="172 371 772 514">Configure a T1 CAS between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.</p>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	n. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. o. Place a PRIORITY call from ON2 to ON1. Place ON2 on hook.  p. Place a PRIORITY call from ON2 to DN2. Place all calls on hook 2. TWC, Precedence Level Preserved, Split Operation a. Place a ROUTINE call from ON1 to DN1. b. DN1 does a hook flash and calls DN2 at PRIORITY c. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place all calls on hook. e. Place a PRIORITY call from ON2 to DN1. Place all calls on hook f. Place a ROUTINE call from ON1 to DN1. g. DN1 does a hook flash and calls DN2 at PRIORITY.  h. Place a PRIORITY call from ON2 to ON1. Place all calls on hook.  i. Place a ROUTINE call from ON1 to DN1. j. DN1 does a hook flash and calls DN2 at PRIORITY.  k. Place an IMMEDIATE call from ON2 to DN2.  l. Place all calls on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
<b>Notes:</b>				

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)												
N	<b>MLPP Call Pick-Up</b>	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON1 to DN1. Don't answer.</li> <li>2. Have DN2 pick-up call.</li> <li>3. Hang up calls.</li> <li>4. Place ROUTINE call from ON1 to DN1; don't answer.</li> <li>5. Place PRORITY call from ON2 to DN2; don't answer.</li> <li>6. Have DN3 do call pick-up.</li> <li>7. Hang up calls.</li> <li>8. Place IMMEDIATE call from ON1 to DN1; don't answer.</li> <li>9. Place IMMEDIATE call from ON2 to DN2; don't answer.</li> <li>10. Have DN3 do call-pick up.</li> <li>11. Hang up all calls.</li> <li>12. Place FLASH call from ON1 to DN1. Answer.</li> <li>13. Place FLASH OVERRIDE call from DN2 to ON2.</li> <li>14. PLACE FLASH OVERRIDE call from ON3 to DN2. Don't answer.</li> <li>15. Attempt to call pick -up ON2 via DN3.</li> <li>16. DN2 Answer ON2 call.</li> <li>17. Hang up all calls.</li> <li>18. Repeat for other phone types.</li> </ol>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;"><b>Call Pick-Up</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>Analog</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>BRI</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>Digital</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>VoIP</b></td> <td></td> </tr> </table>			<b>Call Pick-Up</b>		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
<b>Call Pick-Up</b>															
<b>Analog</b>															
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Requirement:</b> Conditional</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.8.6</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6	<p>Configure a T1 CAS between Origination Node (ON) and SUT - Destination Node (DN). Provision a call pick-up group on the SUT comprised of three subscribers (DN1-DN3). Provision ON with 3 subscribers (ON1-ON3). Busy out all but two trunks.</p>	<ol style="list-style-type: none"> <li>1. Call rings. Y/N</li> <li>2. DN2 able to pick-up DN1 call. Y/N</li> <li>3. Calls end. Y/N</li> <li>4. Call completes; DN1 rings. Y/N</li> <li>5. Call completes; DN2 rings at precedence. Y/N</li> <li>6. DN3 call pick-up picks up ON2. Y/N</li> <li>7. Calls end. Y/N</li> <li>8. Call competes and precedence rings at DN1. Y/N</li> <li>9. Call completes and precedence rings at DN2. Y/N</li> <li>10. Call pick-up picks up ON1 (longest). Y/N</li> <li>11. Calls end. Y/N</li> <li>12. Call completes. Y/N</li> <li>13. Call completes. Y/N</li> <li>14. PNT sent to ON1-DN1. Y/N</li> <li>15. Call pick-up unsuccessful. Y/N</li> <li>16. ON2-DN2 call completes. Y/N</li> <li>17. Calls end, Y/N</li> <li>18. Y/N</li> </ol>											
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6														
<b>Notes:</b>															

**Table E-2.5.2. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																												
C	<b>Secure Calls</b>	Place 2 ROUTINE secure voice calls from SUT to DN via a T1 CAS trunk using STU-III, STE, and SWT. Record the MOS and connection rate.	<table border="1"> <thead> <tr> <th></th> <th>STU</th> <th>STE</th> <th>SWT</th> </tr> </thead> <tbody> <tr> <td><b>STU call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STU call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> </tbody> </table>		STU	STE	SWT	<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:
				STU	STE	SWT																									
	<b>STU call 1</b>			MOS: Rate:	MOS: Rate:	MOS: Rate:																									
<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b>																														
Configure a T1 CAS between SUT and DN. Configure a STU-III and STE off of both SUT and DN. Provision SWTs off of each if available.																															
		<b>Notes:</b>																													

**Table E-2.5.3. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Facsimile**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																		
A	<b>Facsimile</b>	Place 5 facsimile calls between the two facsimiles. Send the IEEE167A-1995 test sheet fro quality measurement.	<table border="1"> <thead> <tr> <th>Call #</th> <th>Completed</th> <th>IEEE167A-1995</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Y/N</td> <td></td> </tr> <tr> <td>2</td> <td>Y/N</td> <td></td> </tr> <tr> <td>3</td> <td>Y/N</td> <td></td> </tr> <tr> <td>4</td> <td>Y/N</td> <td></td> </tr> <tr> <td>5</td> <td>Y/N</td> <td></td> </tr> </tbody> </table>	Call #	Completed	IEEE167A-1995	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	Call #			Completed	IEEE167A-1995																
	1			Y/N																	
2	Y/N																				
3	Y/N																				
4	Y/N																				
5	Y/N																				
<b>Requirement:</b> Conditional	<b>Reference:</b> JTA																				
Configure a T1 CAS link between SUT and DN. Provision an analog fax off of each node.																					
		<b>Notes:</b>																			

**Table E-2.5.4. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Data**

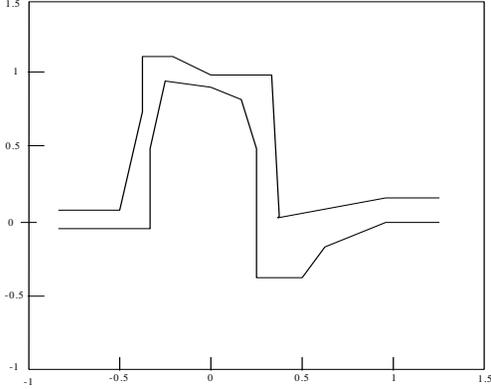
Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
A	<b>56K Switched Data</b>	1. Using the Sunset BRI Test set place a synchronous switched 56K data calls from SUT to DN over the T1 CAS link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____	
	<b>Requirement:</b> TS, MFS, & EOS			<b>Reference:</b> GSCR Sect. 2.3.3
	Provision a T1 CAS link between SUT and DN.			
B	<b>N X 56 Synchronous</b>	1. Using Sunset BRI test set place a 112 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 SS7 link. 2. Using Sunset BRI test set place a 336 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 SS7 link.  <b>Notes:</b>	1. Bit Errors recorded _____  2. Bit Errors recorded _____	
	<b>Requirement:</b> TS, MFS, & EOS			<b>Reference:</b> GSCR Sect. 2.3.3
	Provision a T1 CAS link between SUT and DN.			
C	<b>Secure Data Calls</b>	1. Place an intraswitch STU-III to STU-III secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.  2. Place an intraswitch STU-III to STE secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.  3. Place a STE to STE secure data call from ON to DN. Run a Bit Error Rate Test at 19.2 Kbps using a 511 test pattern for 9 hours minutes.  <b>Notes:</b>	1. No Pattern slips. Y/N No Pattern losses. Y/N Bit Error Rate better than 1X10 <sup>-9</sup> Y/N	
	<b>Requirement:</b> All		<b>Reference:</b> CJSCI 6215.01B	2. No Pattern slips. Y/N No Pattern losses. Y/N Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
	Configure a T1 CAS link between SUT and DN. Provision the SUT and DN with a STE and one STU-III.		3. No Pattern slips. Y/N No Pattern losses. Y/N Bit Error Rate better than 1X10 <sup>-9</sup> Y/N	

**Table E-2.5.5. T1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for VTC**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
A	<b>VTC</b>	1. Place an intraswitch 384 kbps video call between VTC units via T1 SS7 link.  <b>Notes:</b>	1. VTC completes. Y/N VTC quality. _____	
	<b>Requirement:</b> MFS, EOS, & SMEO			<b>Reference:</b>
	Configure a T1 CAS link between SUT and DN. Provision a VTC unit off of the SUT and DN capable of transmitting 384 kbps video.			

**E-2.6 E1 CAS (MFR1, DTMF, DP) Trunk Interface.** Tables E-2.6.1 through E-2.6.5 outline the detailed test procedures for testing the SUT's E1 CAS trunk interface. This interface supports DSN MLPP through CAS signaling. Objectives, criterion and data required for this interface are contained in appendix D-2.6.

**Table E-2.6.1. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>Framing &amp; Line Code</b>	1. Use the Sunset E10 test set to do a Pulse Mask Analysis to test the E1 Electrical Interface Characteristics.	
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)  <b>Reference:</b> GSCR Sect. 7  Configure 1 E1 with HDB3 coding.		
B	<b>Signaling Trunk Supervisory Signaling</b>	<b>Trunk Supervisory Signaling:</b> 1. Verify that the SUT (MFS, EOS, SMEO & PBX1) supports reverse battery trunk signaling 2. Verify that the SUT (TS, MFS & EOS) supports immediate start trunk signaling.	<b>Trunk Supervisory Signaling:</b> 1. MFS, EOS, SMEO & PBX1 supports reverse battery. Y/N 2. TS, MFS & EOS supports immediate start trunk signaling. Y/N
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)  <b>Reference:</b> GSCR Sect. 5.3  <b>Signaling Abnormal operation</b>	<b>Abnormal Wink Start:</b> 1. Using test equipment, simulate a wink of less than 140 msec.	<b>Abnormal Wink Start:</b> 1. SUT ignores wink less than 140 msec. Y/N
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)  <b>Reference:</b> GSCR Sect. 5.3.3.3	<b>Notes:</b>	

**Table E-2.6.1. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)	
B C o n t i n u e d	<b>Signaling Abnormal operation</b>		Glare Resolution: 1. The SUT shall provide the capability of provisioning each two-way interface or group of two-way interfaces (trunk group) as a controlling interface or a release interface. 2. When a SUT's interface is provisioned for wink-start operation, it shall declare a glare condition when the duration of the off-hook signal from the connecting equipment exceeds 400 milliseconds.	1. SUT capable of assigning trunk group as controlling or releasing. Y/N  2. Off-hook of 400 msec seen as glare. Y/N	
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 5.3.3.3			
	<b>Notes:</b>				
	<b>Signaling Call for service timing/Guard Timing</b>		1. Simulate off-hook seizure of 15 to 60 msec. Simulate off-hook seizure 61 msec.  Guard Timing. 2. Verify the duration of the release-guard interval applied is ≥ 800 milliseconds and ≤ 1000 msec.	1. Switch considers 15 to 60 msec invalid seizure. Y/N 61 msec a valid seizure. Y/N  2. Guard interval is ≥ 800 milliseconds and ≤ 1000 msec. Y/N	
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 5.3.5/5.3.6			
	<b>Notes:</b>				
	<b>Signaling Satellite Interface</b>		1. Verify satellite guard timing is ≥ 1050 milliseconds and ≤ 1250 msec.	1. Satellite guard timing is ≥ 1050 milliseconds and ≤ 1250 msec. Y/N	
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 5.3.7			<b>Notes:</b>
	<b>Signaling Reselect &amp; Retrial</b>		1. Verify SUT performs following operations:		
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 5.3.9	<b>Fault</b>	<b>Operation</b>	
Glare detected to glare release.			Release once if in same trunk group. If ATB, route advance.		
Sender timeout on glare hold.			Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.		
Sender timeout on an outgoing delay dial Circuit (conditional)			Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.		
Integrity check failure on delay dial circuit (conditional)			Reselect once in the same trunk group. If fault or ATB, route advance.		
No wink received on wink start circuit.			Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.		
Wink exceeds 350 msec on outgoing circuit.			Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.		
Unexpected stop on MF circuit			Reselect once in same trunk group. If no idle or preemptable, route advance. If failure on retrial, route advance.		
<b>Notes:</b>					

**Table E-2.6.1. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
B C o n t i n g	<b>Signaling Control Signaling</b>		1. Verify CAS control signaling.  <b>Notes:</b>	1. Switch supports: DTMF 2-way. Y/N DP 2-way. Y/N DTMF in –DP out. Y/N DP in - DTMF out. Y/N MFR1 2-way. (Conditional SMEO) Y/N
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 5.4		
	Provision an E1 CAS link between SUT and destination node (DN)			
C	<b>Alarms</b>		1. Break the receive path between SUT and DN at SUT.  2. Reconnect the receive path between SUT and DN at SUT.  3. Break the receive path between SUT and DN at DN.  4. Reconnect the receive path between SUT and DN at DN.  <b>Notes:</b>	1. SUT enter a Local/ Red Alarm state within 2.5 ± 0.5 secs of loss of frame. Y/N Time measured: _____ SUT sends Remote/Yellow Alarm. Y/N DN enters a Remote/ Yellow Alarm state. Y/N DN removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N Time measured: _____2. 2. SUT returns link to service within 15 + 5 secs. Y/N Time measured: _____ DN removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N Time measured: _____ 3. DN enter a Local/ Red Alarm state within 2.5 ± 0.5 seconds of loss of frame. Y/N Time measured: _____ DN sends remote/yellow Alarm. Y/N SUT enters a Remote/ Yellow Alarm state. Y/N SUT removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N Time measured: _____2. 4. DN return slink to service within 15 + 5 Secs. Y/N Time measured: _____ SUT removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N Time measured: _____
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 7.1.4 & 7.2.2		
	Provision an E1 CAS link between SUT and destination node (DN)			

**Table E-2.6.1. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)																																															
D	<b>WWNDP</b>		1. Verify in that the switch under test supports Interswitch 7 and 10 digit inter-switch dialing. Note: This can be validated in either translations or documentation 2. SUT supports DSN user dialing [N-P or S- 1X-KXX-XXXX]; where: N is any digit 2-9 P is any digit 0-4 S is any digit 5-9 X is any digit 0-9 K is any digit 2-8	1. Switch supports 7 and 10 digit inter-switch Dialing. Y/N 2. SUT supports DSN user dialing. Y/N																																															
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 4.5																																																	
E	<b>WWNDP Route Control Digit (RCD)</b>		1. Exterior Routing. a. RCD Exterior Routing Logic.																																																
	<b>Requirement:</b> TS, MFS (Europe only)	<b>Reference:</b> GSCR Sect. 4.5.2.1																																																	
			<table border="1" data-bbox="879 656 1692 941"> <thead> <tr> <th colspan="2" data-bbox="879 656 1692 683">ROUTINE calls</th> </tr> <tr> <th data-bbox="879 683 1121 711">RCD</th> <th data-bbox="1121 683 1692 711">Route Selected</th> </tr> </thead> <tbody> <tr> <td data-bbox="879 711 1121 738">0</td> <td data-bbox="1121 711 1692 738">Use direct plus 1st triple.</td> </tr> <tr> <td data-bbox="879 738 1121 766">1</td> <td data-bbox="1121 738 1692 766">Use direct plus 1st triple.</td> </tr> <tr> <td data-bbox="879 766 1121 794">2</td> <td data-bbox="1121 766 1692 794">Use direct plus 1st triple.</td> </tr> <tr> <td data-bbox="879 794 1121 821">3</td> <td data-bbox="1121 794 1692 821">Use direct plus 1st triple.</td> </tr> <tr> <th colspan="2" data-bbox="879 821 1692 849">Non-ROUTINE calls</th> </tr> <tr> <td data-bbox="879 849 1121 876">0</td> <td data-bbox="1121 849 1692 876">All programmed routes</td> </tr> <tr> <td data-bbox="879 876 1121 904">1</td> <td data-bbox="1121 876 1692 904">Use direct plus 1st and 2nd triple.</td> </tr> <tr> <td data-bbox="879 904 1121 932">2</td> <td data-bbox="1121 904 1692 932">Use direct plus 1st and 3rd triple.</td> </tr> <tr> <td data-bbox="879 932 1121 959">3</td> <td data-bbox="1121 932 1692 959">Use direct plus 1st triple.</td> </tr> </tbody> </table> <p data-bbox="808 966 997 990">b. ROUTINE Calls.</p> <table border="1" data-bbox="879 1015 1711 1169"> <thead> <tr> <th data-bbox="879 1015 1043 1063">RCD In</th> <th data-bbox="1043 1015 1207 1063">'Direct' RCD Out</th> <th data-bbox="1207 1015 1371 1063">1st Alternate RCD out</th> <th data-bbox="1371 1015 1535 1063">2nd Alternate RCD out</th> <th data-bbox="1535 1015 1711 1063">3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td data-bbox="879 1063 1043 1091">0</td> <td data-bbox="1043 1063 1207 1091">0</td> <td data-bbox="1207 1063 1371 1091">1,2, or 3</td> <td data-bbox="1371 1063 1535 1091">NA</td> <td data-bbox="1535 1063 1711 1091">NA</td> </tr> <tr> <td data-bbox="879 1091 1043 1118">1</td> <td data-bbox="1043 1091 1207 1118">0</td> <td data-bbox="1207 1091 1371 1118">3</td> <td data-bbox="1371 1091 1535 1118">NA</td> <td data-bbox="1535 1091 1711 1118">NA</td> </tr> <tr> <td data-bbox="879 1118 1043 1146">2</td> <td data-bbox="1043 1118 1207 1146">0</td> <td data-bbox="1207 1118 1371 1146">3</td> <td data-bbox="1371 1118 1535 1146">NA</td> <td data-bbox="1535 1118 1711 1146">NA</td> </tr> <tr> <td data-bbox="879 1146 1043 1174">3</td> <td data-bbox="1043 1146 1207 1174">0</td> <td data-bbox="1207 1146 1371 1174">3</td> <td data-bbox="1371 1146 1535 1174">NA</td> <td data-bbox="1535 1146 1711 1174">NA</td> </tr> </tbody> </table>	ROUTINE calls		RCD	Route Selected	0	Use direct plus 1st triple.	1	Use direct plus 1st triple.	2	Use direct plus 1st triple.	3	Use direct plus 1st triple.	Non-ROUTINE calls		0	All programmed routes	1	Use direct plus 1st and 2nd triple.	2	Use direct plus 1st and 3rd triple.	3	Use direct plus 1st triple.	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	3	NA	NA	2	0	3	NA	NA	3	0	3	NA	NA	
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**Table E-2.6.1. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																										
E C o n t i n u e d	<b>WWNDP</b> <b>Route Control Digit (RCD) (continued)</b>	c. Calls above ROUTINE- Idle Search																											
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**Table E-2.6.1. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																			
E C o n t i n u e d	<b>WWNDP Route Control Digit (RCD) (continued)</b>	c. Calls above ROUTINE- Idle Search																																																				
	<table border="1" data-bbox="163 305 774 365"> <tr> <td data-bbox="163 305 478 365"><b>Requirement:</b> TS, MFS (Europe only)</td> <td data-bbox="478 305 774 365"><b>Reference:</b> GSCR Sect. 4.5.2.1</td> </tr> </table>	<b>Requirement:</b> TS, MFS (Europe only)	<b>Reference:</b> GSCR Sect. 4.5.2.1	<table border="1" data-bbox="884 289 1713 440"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>1</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table> <p data-bbox="774 467 1421 511">d. Calls above ROUTINE- Preemptive Search</p> <table border="1" data-bbox="884 516 1713 667"> <thead> <tr> <th>RCD In</th> <th>'Direct' RCD Out</th> <th>1st Alternate RCD out</th> <th>2nd Alternate RCD out</th> <th>3rd Alternate RCD Out</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1,2, or 3</td> <td>3</td> <td>3</td> </tr> <tr> <td>1</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> <tr> <td>2</td> <td>0</td> <td>NA</td> <td>3</td> <td>NA</td> </tr> <tr> <td>3</td> <td>0</td> <td>3</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table> <p data-bbox="774 678 1421 797"><b>Notes:</b></p>	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	NA	NA	1	0	NA	NA	NA	2	0	NA	NA	NA	3	0	NA	NA	NA	RCD In	'Direct' RCD Out	1st Alternate RCD out	2nd Alternate RCD out	3rd Alternate RCD Out	0	0	1,2, or 3	3	3	1	0	3	NA	NA	2	0	NA	3	NA	3	0	3	NA	NA
<b>Requirement:</b> TS, MFS (Europe only)	<b>Reference:</b> GSCR Sect. 4.5.2.1																																																					
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3	0	3	NA	NA																																																		
F	<b>Outpulsing Digit Formats</b>	DTMF:																																																				
	<table border="1" data-bbox="163 857 774 933"> <tr> <td data-bbox="163 857 478 933"><b>Requirement:</b> TS, MFS, EOS &amp; SMEO (Europe only)</td> <td data-bbox="478 857 774 933"><b>Reference:</b> GSCR Sect. 4.5.1 &amp; 5.4</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 4.5.1 & 5.4	1. Verify that DTMF precedence digits 0 through 4. (0=FO, 1=F, 2=I, 3=P, and 4=R)  MFR1 (conditional for SMEO) 1. Verify SUT supports digits 0-9, KP, & S/T. 2. Precedence digits 0 through 4 (0=FO, 1=F, 2=I, 3=P, and 4=R)	DTMF: 1. DTMF precedence digits supported. Y/N  MFR1: 1. SUT supports MFR1 digits. Y/N 2. MFR1 precedence digits supported. Y/N																																																	
<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 4.5.1 & 5.4																																																					
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**Table E-2.6.1. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
G	<b>Routing</b>		<b>TS &amp; MFS:</b>	
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 4.2	1. Assign a direct route and nine alternate routes in the switch under test (each route with one trunk group) 2. Assign a route (direct or alternate) with a minimum of four trunk groups in the switch under test.	1. Switch allows assignment of direct route with nine alternate routes Y/N 2. Switch allows assignment of minimum of four trunk groups per route Y/N
	Verify in software of the switch under test the following primary route and alternate route capacities		<b>EOS &amp; SMEO</b> 1. Assign a direct route and five alternate routes in the switch under test (each route with one trunk group) 2. Assign a route (direct or alternate) with a minimum of one trunk group per route and up to 96 members per trunk group in the switch under test.	1. Switch allows assignment of direct route with five alternate routes Y/N 2. Switch allows assignment of minimum of one trunk group per route and 96 members per trunk group. Y/N
	<b>Notes:</b>			
H	<b>Trunk Groups</b>		1. Busy-out all trunks on the E1 CAS from the SUT maintenance terminal.	1. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 2.5.5& 2.5.6	2. Break the E1 span for 60 sec. then restore. Monitor the status from the DN maintenance terminal	2. After the link is restored busy-outs remain acknowledged. Y/N
			3. Repeat the procedure from the DN  4. Busy-out one trunk. Idle the trunk on the E1 from the DN maintenance terminal Monitor the status from the ON maintenance terminal  5. Repeat with 2, 4, 8, 16, 24 trunks busied/idled 6. Busy-out one trunk then idle on the E1 from the ON maintenance terminal  7. Monitor the status from the ON maintenance terminal Repeat with 2, 4, 8, 16, 24 trunks busied /idled.	3. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. After the link is restored busy-outs remain acknowledged. Y/N 4. The SUT Maintenance Terminal immediately acknowledges a remote busy-out applied from the DN maintenance terminal The SUT Maintenance Terminal immediately acknowledges an idle applied from the DN maintenance terminal. Y/N 5. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N 6. The DN Maintenance Terminal immediately acknowledges a remote busy-out applied from the SUT maintenance terminal Y/N The DN Maintenance Terminal immediately acknowledges an idle applied from the SUT maintenance terminal. Y/N 7. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N
	<b>Notes:</b>			

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																				
I	<b>CAS to CCS Interworking</b>																						
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.10																					
	Configure SUT with an analog users and BRI instrument. Configure the Destination Node (DN) with analog and BRI instruments. Configure tandem node between SUT and DN with T1 SS7, T1 CAS, E1 CAS, T1 PRI and E1 PRI between each node.  Note. Speech may also be 3.1K-bearer capability.																						
	<b>Line-to trunk</b>																						
	<b>Origin</b>	<b>Route Digit</b>	<b>Bearer Capability</b>	<b>Termination</b>																			
	Analog	0/5	N/A	E1 CAS																			
	Analog	1/6	N/A	E1 CAS																			
	BRI	0/5	Speech	E1 CAS																			
	BRI	1/6	Speech	E1 CAS																			
	BRI	0/5	56K CMD	E1 CAS																			
	BRI	0/5	64K CMD	E1 CAS																			
	BRI	1/6	56K CMD	E1 CAS																			
	BRI	1/6	64K CMD	E1 CAS																			
	<b>Trunk-to-Line</b>																						
	E1 CAS	0/5	N/A	Analog																			
E1 CAS	1/6	N/A	Analog																				
E1 CAS	0/5	N/A	BRI																				
E1 CAS	1/6	N/A	BRI																				
<b>Trunk-to-Trunk</b>																							
E1 CAS	1/6	N/A	T1/E1 SS7																				
E1 CAS	0/5	N/A	T1/E1 SS7																				
E1 CAS	1/6	N/A	T1/E1 PRI																				
E1 CAS	0/5	N/A	T1/E1 PRI																				
<b>Notes:</b>																							
J	<b>PCM-24/PCM-30</b>	1. Place a call from ON subscriber to DN subscriber and verify a-law to mu-law conversion.																					
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 7.3	Mu-law to a-law conversion via E1 CAS link to:																				
	Configure SUT as a tandem node with incoming (E1 CAS) link and outgoing (T1 SS7, T1 PRI and T1 CAS) links between origination node and destination node.		<table border="1"> <thead> <tr> <th></th> <th>T1 SS7</th> <th>T1 PRI</th> <th>T1 CAS</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td></td> <td></td> <td></td> </tr> <tr> <td>BRI</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Digital</td> <td></td> <td></td> <td></td> </tr> <tr> <td>VoIP</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		T1 SS7	T1 PRI	T1 CAS	Analog				BRI				Digital				VoIP			
		T1 SS7	T1 PRI	T1 CAS																			
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<b>Notes:</b>																							

**Table E-2.6.1. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
K	<b>DID</b>	1. Place ROUTINE call from ON1 to P1. 2. Place ROUTINE call from ON2 to P2.	1. Call completes. Y/N 2. Reroute to announcement, reorder tone or attendant. Y/N
	<b>Requirement:</b> MFS & EOS (Europe only)		3. ON1 and P1 receive PNT. Y/N ON3-P1 call completes. Y/N
	<b>Reference:</b> GSCR 2.3.2	3. Place PRIORITY call from ON3 to P1.	
	Configure the SUT to have a PBX1 connected to it with DID trunks. Configure 2 subscribers, P1 and P2 on the PBX. P2 has a restriction not to receive terminating calls. Configure ON with 3 subscribers ON1, ON2, & ON 3.	<b>Notes:</b>	

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																			
A	<b>MOS</b>	1. Place 2 calls between SUT subscriber and DN subscriber such that the calls traverse an E1 CAS link. Record the average MOS for each set of 10 calls.	Average MOS:																																																			
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)		<table border="1"> <thead> <tr> <th>Origination</th> <th>Termination</th> <th>Ave MOS of 2 calls</th> </tr> </thead> <tbody> <tr><td>Analog</td><td>Analog</td><td></td></tr> <tr><td>Analog</td><td>BRI</td><td></td></tr> <tr><td>Analog</td><td>Digital</td><td></td></tr> <tr><td>Analog</td><td>VoIP</td><td></td></tr> <tr><td>BRI</td><td>Analog</td><td></td></tr> <tr><td>BRI</td><td>BRI</td><td></td></tr> <tr><td>BRI</td><td>Digital</td><td></td></tr> <tr><td>BRI</td><td>VoIP</td><td></td></tr> <tr><td>Digital</td><td>Analog</td><td></td></tr> <tr><td>Digital</td><td>BRI</td><td></td></tr> <tr><td>Digital</td><td>Digital</td><td></td></tr> <tr><td>Digital</td><td>VoIP</td><td></td></tr> <tr><td>VoIP</td><td>Analog</td><td></td></tr> <tr><td>VoIP</td><td>BRI</td><td></td></tr> <tr><td>VoIP</td><td>Digital</td><td></td></tr> <tr><td>VoIP</td><td>VoIP</td><td></td></tr> </tbody> </table>	Origination	Termination	Ave MOS of 2 calls	Analog	Analog		Analog	BRI		Analog	Digital		Analog	VoIP		BRI	Analog		BRI	BRI		BRI	Digital		BRI	VoIP		Digital	Analog		Digital	BRI		Digital	Digital		Digital	VoIP		VoIP	Analog		VoIP	BRI		VoIP	Digital		VoIP	VoIP	
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VoIP	Analog																																																					
VoIP	BRI																																																					
VoIP	Digital																																																					
VoIP	VoIP																																																					
<b>Reference:</b> CJCSI 6215.01B																																																						
	Configure a E1 CAS between SUT and DN. Provision one subscriber of each type (analog & BRI). If digital and VoIP phones are supported by the SUT configure one each off of the SUT and DN..	<b>Notes:</b>																																																				

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
B	<p><b>MLPP Preempt Signaling</b></p> <p><b>Requirement:</b> TS, MFS, EOS &amp; SMEO (Europe only)</p> <p><b>Reference:</b> GSCR Sect. 3.4.1</p> <p>See TP's in C.</p>	<p><b>Answered Call: Trunk to be reused</b></p> <p><b>Unanswered Call: Trunk to be reused</b></p>	<p><b>Expected Result(s)</b></p> <p>Digits outpulsed by preempting switch</p> <p>Digits outpulsed by preempting switch</p>
	<p><b>Notes:</b></p>		

Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
B	<p><b>MLPP Preempt Signaling (continued)</b></p> <p><b>Requirement:</b> TS, MFS, EOS &amp; SMEO (Europe only)</p> <p><b>Reference:</b> GSCR Sect. 3.4.1</p>		
	<p>See TP's in C.</p>	<p style="text-align: center;"><b>Answered Call: Trunk not to be reused</b></p> <p style="text-align: center;"><b>Unanswered Call: Trunk not to be reused</b></p> <p><b>Notes:</b></p>	

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)									
C	<b>MLPP Preempt for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call completes. Y/N 2. Call completes. Y/N 3. SUT sends correct preempt signal (see B above) Y/N									
	<table border="1"> <tr> <td data-bbox="163 315 485 396"><b>Requirement:</b> TS, MFS, EOS &amp; SMEO (Europe only)</td> <td data-bbox="485 315 772 396"><b>Reference:</b> GSCR Sect. 3.4.1</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.4.1		ON1-DN1 receive PNT. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N							
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.4.1										
Configure an E1 CAS trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)	4. Place a FLASH call from DN1 to ON2.  5. Place a FLASH OVERRIDE call from ON1 to DN2.  6. Place a FLASH OVERRIDE call from DN3 to ON3.  7. Place a FLASH OVERRIDE call from ON2 to DN1. 8. Place all instruments on hook. 9. Repeat for all phone types	4. DN sends correct preempt signal (see B above). Y/N ON2-DN2 receive PNT. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 5. SUT sends correct preempt signal (see B above). Y/N ON3-DN3 receive PNT. Y/N DN1 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 6. DN sends correct preempt signal (see B above) Y/N ON2-DN1 receive PNT. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 7. ON2 receives BPA. Y/N 8. Calls end. Y/N 9. <table border="1" data-bbox="1434 854 1955 1081"> <thead> <tr> <th data-bbox="1434 854 1545 878"></th> <th data-bbox="1545 854 1955 878">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1434 878 1545 927">Analog</td> <td data-bbox="1545 878 1955 927"></td> </tr> <tr> <td data-bbox="1434 927 1545 976">BRI</td> <td data-bbox="1545 927 1955 976"></td> </tr> <tr> <td data-bbox="1434 976 1545 1024">Digital</td> <td data-bbox="1545 976 1955 1024"></td> </tr> <tr> <td data-bbox="1434 1024 1545 1073">VoIP</td> <td data-bbox="1545 1024 1955 1073"></td> </tr> </tbody> </table>		Preempt for Reuse (Answered)	Analog		BRI		Digital		VoIP	
	Preempt for Reuse (Answered)											
Analog												
BRI												
Digital												
VoIP												
	<b>Notes:</b>											

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)									
C o n t i n u e d	<b>MLPP Preempt for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call in ringing state. Y/N 2. Call completes. Y/N 3. SUT sends correct preempt signal (see B above). Y/N									
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, EOS &amp; SMEO (Europe only)</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.4.1</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.4.1		ON1 receives PNT. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N							
<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.4.1											
Configure an E1 CAS with T1.619a trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)	4. Hang up DN2-ON2 call. Redial DN2-ON2 at PRIORITY; don't answer. 5. Place a FLASH call from DN1 to ON2.  6. Hang up ON3 to DN3. Redial at IMMEDIATE; don't answer. 7. Place a FLASH OVERRIDE call from ON1 to DN2.  8. Hang up DN1 to ON2. Redial at FLASH; don't answer. 9. Place a FLASH OVERRIDE call from DN3 to ON3.  10. Place a FLASH OVERRIDE call from ON2 to DN1. 11. Place all instruments on hook. 12. Repeat for all phone types	4. Call in ringing state. Y/N  5. DN sends correct preempt signal (see B above). Y/N DN2 receive PNT. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 6. Call in ringing state. Y/N 7. SUT sends correct preempt signal (see B above). Y/N ON3 receives PNT. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 8. Call in ringing state. Y/N 9. DN sends correct preempt signal (see B above). Y/N DN1 receive PNT. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 10. ON2 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th colspan="2" style="text-align: right;">Preempt for Reuse (Unanswered)</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;"><b>Analog</b></td> <td></td> </tr> <tr> <td><b>BRI</b></td> <td></td> </tr> <tr> <td><b>Digital</b></td> <td></td> </tr> <tr> <td><b>VoIP</b></td> <td></td> </tr> </tbody> </table>	Preempt for Reuse (Unanswered)		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
Preempt for Reuse (Unanswered)												
<b>Analog</b>												
<b>BRI</b>												
<b>Digital</b>												
<b>VoIP</b>												
	<b>Notes:</b>											

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from ON2 to DN1.	1. Call completes. Y/N 2. SUT sends correct preempt signal (see B above). Y/N ON1-DN1 receive PNT. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N										
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.4.1											
	Same as above.		3. Place an IMMEDIATE call from DN2 to ON2.	3. DN sends correct preempt signal (see B above) Y/N ON2-DN1 receive PNT. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N									
			4. Place a FLASH call from ON1 to DN2.	4. SUT sends correct preempt signal (see B above). Y/N DN2-ON2 receive PNT. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N									
			6. Place a FLASH OVERRIDE call from DN1 to ON1.	6. DN sends correct preempt signal (see B above). Y/N ON1-DN2 receive PNT. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N									
			7. Place a FLASH OVERRIDE call from ON2 to DN2.	7. Call completes. Y/N									
			8. Place FLASH OVERRIDE call from DN3 to ON3	8. DN3 receives BPA. Y/N									
			9. Place all instruments on hook.	9. Calls end. Y/N									
			10. Repeat for all phone types.	10.									
			<b>Notes:</b>	<table border="1" data-bbox="1430 846 1955 1073"> <thead> <tr> <th data-bbox="1430 846 1541 870"></th> <th data-bbox="1541 846 1955 870">Preempt Not for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1430 870 1541 922"><b>Analog</b></td> <td data-bbox="1541 870 1955 922"></td> </tr> <tr> <td data-bbox="1430 922 1541 974"><b>BRI</b></td> <td data-bbox="1541 922 1955 974"></td> </tr> <tr> <td data-bbox="1430 974 1541 1026"><b>Digital</b></td> <td data-bbox="1541 974 1955 1026"></td> </tr> <tr> <td data-bbox="1430 1026 1541 1073"><b>VoIP</b></td> <td data-bbox="1541 1026 1955 1073"></td> </tr> </tbody> </table>		Preempt Not for Reuse (Answered)	<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>
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<b>VoIP</b>													

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)											
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from ON2 to DN1.	1. Call in ringing state. Y/N 2. SUT sends correct preempt signal (see B above). Y/N ON1 receives PNT. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N											
	<table border="1" data-bbox="170 318 772 394"> <tr> <td data-bbox="170 318 485 394"><b>Requirement:</b> TS, MFS, EOS &amp; SMEO (Europe only)</td> <td data-bbox="491 318 772 394"><b>Reference:</b> GSCR Sect. 3.4.1</td> </tr> </table> Same as above.	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.4.1	3. Hang up ON2 to DN1 call. Redial at PRIORITY; don't answer. 4. Place an IMMEDIATE call from DN2 to ON2.  5. Hang up DN2 to ON2. Redial at IMMEDIATE; don't answer. 6. Place a FLASH call from ON1 to DN2.  7. Hang up ON1 to DN2 call. Redial at FLASH; don't answer. 8. Place a FLASH OVERRIDE call from DN1 to ON1.  9. Place a FLASH OVERRIDE call from ON2 to DN2. 10. Place FLASH OVERRIDE call from DN3 to ON3 11. Place all instruments on hook. 12. Repeat for all phone types.	3. Call in ringing state. Y/N 4. DN sends correct preempt signal (see B above). Y/N ON2-DN1 receive PNT. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N 5. Call in ringing state. Y/N 6. SUT sends correct preempt signal (see B above). Y/N DN2 receives PNT. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N 7. Call in ringing state. Y/N 8. DN sends correct preempt signal (see B above). Y/N ON1 receives PNT. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N 9. Call completes. Y/N 10. DN3 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" data-bbox="1421 927 1955 1154"> <thead> <tr> <th colspan="2">Preempt Not for Reuse (Unanswered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1421 954 1541 1003"><b>Analog</b></td> <td data-bbox="1547 954 1955 1003"></td> </tr> <tr> <td data-bbox="1421 1008 1541 1057"><b>BRI</b></td> <td data-bbox="1547 1008 1955 1057"></td> </tr> <tr> <td data-bbox="1421 1062 1541 1110"><b>Digital</b></td> <td data-bbox="1547 1062 1955 1110"></td> </tr> <tr> <td data-bbox="1421 1115 1541 1164"><b>VoIP</b></td> <td data-bbox="1547 1115 1955 1164"></td> </tr> </tbody> </table>	Preempt Not for Reuse (Unanswered)		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>
<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.4.1													
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<b>BRI</b>														
<b>Digital</b>														
<b>VoIP</b>														
		<b>Notes:</b>												

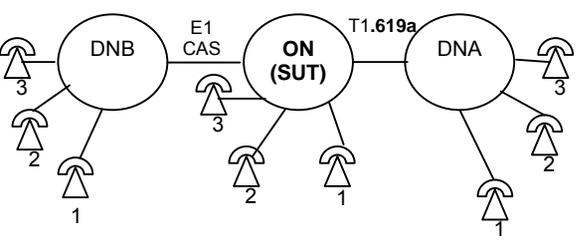
**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
D	<b>MLPP Trunk selection</b>	<b>Hunting:</b> 1. Place a ROUTINE data call between SUT and DN. 2. Place a PRIORITY data call between SUT and DN. 3. Place an IMMEDIATE voice call. Hang up all calls. 4. Place a ROUTINE data call 5. Place ROUTINE voice call 6. Place IMMEDIATE data call.  <b>Notes:</b>	1. Call completes. Y/N 2. Call completes. Y/N 3. Routine data call preempted; PNT. Y/N	
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)		<b>Reference:</b> GSCR Sect. 3.2.3	4. Call completes. Y/N 5. Call completes. Y/N 6. Data call preempted. Y/N
	Configure an E1 CAS between SUT and Destination Node (DN). On the trunk, classmark for voice and data, busy all but four trunks.			
E	<b>MLPP Method 1</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY. 5. Place a call from ON5 to DN5 at ROUTINE. 6. Place a call from ON6 to DN6 at PRIORITY. 7. Place a ROUTINE call from ON7 to DN7 at ROUTINE. 8. Hang up ON5 to DN5 call 9. Place a call from ON7 to DN7 at IMMEDIATE. 10. Place a call from ON5 to DN5 at IMMEDIATE.  11. Place a call from ON1 to DN1 at FLASH  12. Place a call from ON2 to DN2 at FLASH OVERRIDE.  13. Place a call from ON5 to DN5 at IMMEDIATE.  14. Place a call from ON3 to DN3 at FLASH.  15. Place a call from ON4 to DN4 at IMMEDIATE.  16. Place a call from ON6 to DN6 at IMMEDIATE  <b>Notes:</b>	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. Call completes over alternate route 1. Y/N 5. Call completes over alternate route 2. Y/N 6. Call completes over alternate route 2. Y/N 7. Call receives T120 busy tone. Y/N 8. Trunk is idled on alternate route 2. Y/N 9. Call completes over alternate route 2. Y/N 10. ON1 and DN1 receive preemption notification. Call completes over direct route. Y/N 11. ON2 and DN2 receive preemption notification. Call completes over direct route. Y/N 12. ON5 and DN5 receive preemption notification. Call completes over direct route. Y/N 13. ON3 and DN3 receive preemption notification. Call completes over alternate route 1. Y/N 14. ON4 and DN4 receive preemption notification. Call completes over alternate route 1. Y/N 15. ON6 and DN6 receive preemption notification. Call completes over alternate route 2. Y/N 16. ON6 receives a BPA Y/N	
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)		<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1	
	Configure an E1 CAS between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes. <b>Provision 7 subscribers off of each node (ON1-ON7, DN1-DN7)</b>			

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
F	<b>MLPP Method 2</b>	1. Place a call from ON to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N		
	<table border="1"> <tr> <td data-bbox="170 318 485 363"><b>Requirement:</b> TS &amp; MFS,</td> <td data-bbox="491 318 772 363"><b>Reference:</b> GSCR Sect. 3.2.3.1.2.2</td> </tr> </table>	<b>Requirement:</b> TS & MFS,	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2	5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.  7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.  10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.	5. Call completes over alternate route 1. Y/N 6. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N 7. Call completes over alternate route 2. Y/N 8. Call completes over alternate route 2. Y/N 9. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 2. Y/N 10. ON3 receives a BPA. Y/N 11. Call receives T60 busy tone. Y/N
	<b>Requirement:</b> TS & MFS,	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2			
Configure an E1 CAS between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.	<b>Notes:</b>				
G	<b>MLPP Precedence Call Diversion</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N		
	<table border="1"> <tr> <td data-bbox="170 794 485 870"><b>Requirement:</b> TS, MFS, EOS &amp; SMEO (Europe only)</td> <td data-bbox="491 794 772 870"><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3	5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.  7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.  10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.	5. Call completes over alternate route 1. Y/N 6. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N 7. Call completes over alternate route 2. Y/N 8. Call completes over alternate route 2. Y/N 9. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 2. Y/N 10. ON3 receives a BPA. Y/N 11. Call receives T60 busy tone. Y/N
	<b>Requirement:</b> TS, MFS, EOS & SMEO (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3			
Configure an E1 CAS between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.	<b>Notes:</b>				

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																													
H	<p><b>MLPP</b> <b>Service Domain Interaction</b></p>	<ol style="list-style-type: none"> <li>Verify SUT is capable of domain 16777215.</li> <li>Verify like service domains interaction:               <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA1. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON2 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from DNA3 to ON3. Hang up.</li> </ol> </li> <li>Verify unlike domains interaction:               <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA2. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA3. Hang up.</li> <li>Place ROUTINE call from ON3 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON3 to DNA2. Hang up.</li> </ol> </li> <li>Service domain connections:               <ol style="list-style-type: none"> <li>Place a ROUTINE call from ON2 to ON1.</li> <li>Place a PRIORITY call from DNA1 to ON1. Hang up.</li> <li>Place a ROUTINE call from DNB1 to DNA1.</li> <li>Place a FLASH call from ON1 to DNA1. Hang up.</li> <li>Place a ROUTINE call from DNB2 to ON1.</li> <li>Place an IMMEDIATE call from DNA1 to ON1. Hang up.</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>	<ol style="list-style-type: none"> <li>SUT capable of domain 16777215. Y/N</li> <li>Like domains:               <ol style="list-style-type: none"> <li>Call completes. Y/N</li> </ol> </li> <li>Unlike domains:               <ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> </ol> </li> <li>Service Domain connections:               <ol style="list-style-type: none"> <li>Call completes; connection domain is FFFFFFFF. Y/N</li> <li>DN1 gets BPA. Y/N</li> <li>Call completes; connection domain is 0. Y/N</li> <li>Call preempts; DNB1 to DNA1 link. Y/N</li> <li>Call completes. Domain is 0. Y/N</li> <li>Call preempts DNB2 to ON1 call. Y/N</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>																													
	<p><b>Requirement:</b> TS, MFS, EOS &amp; SMEO (Europe only)</p> <p><b>Reference:</b> GSCR Sect. 3.7.6</p> <p>Configure an E1 CAS between ON (SUT) and DN (DNA). Configure a T1.619a link between ON and DNB. Busy all but one trunk on both links. Provision 3 subscribers off of each node. Assign ON1, DNA1, and DNB1 with a Service Domain of 000000. Provision ON2, DNA2 and DNB2 with service domain FFFFFFFF in hexadecimal. (16777215 in Decimal). Provision ON3, DNA3 and DNB3 with no service domain. Provision the SUT &amp; DNs to have service domain 0 as the default. Use SS7 protocol analyzer to monitor the T1 SS7 messages on the signaling link.</p>																															
	<table border="1"> <thead> <tr> <th>Phone type</th> <th>Non T1.619a Link</th> <th>Interaction Correct</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td rowspan="3">T1 CAS</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td rowspan="3">E1 CAS</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td rowspan="3">T1 PRI (non-T1.619a)</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td rowspan="3">E1 PRI (non-Q.955.3)</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td>Y/N</td> </tr> </tbody> </table>	Phone type	Non T1.619a Link	Interaction Correct	Analog	T1 CAS	Y/N	BRI	Y/N	Digital	Y/N	VoIP	E1 CAS	Y/N	Analog	Y/N	BRI	Y/N	Digital	T1 PRI (non-T1.619a)	Y/N	VoIP	Y/N	Analog	Y/N	BRI	E1 PRI (non-Q.955.3)	Y/N	Digital	Y/N	VoIP	Y/N
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**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																						
I	<b>MLPP Precedence Call Waiting</b>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:               <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accepts waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook</li> </ol> </li> <li>2. Busy with equal precedence:               <ol style="list-style-type: none"> <li>a. Place a PRIORITY call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accepts waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook.</li> </ol> </li> <li>3. Busy with lower precedence:               <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1. Place ON1 on hook.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1. Place ON2 on hook.</li> <li>d. Place a FLASH call from ON2 to DN1. Place ON1 on hook.</li> <li>e. Place a FLASH OVERRIDE call from ON1 to DN1. Place all instruments on hook.</li> </ol> </li> <li>4. No answer:               <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Don't answer ON2 call.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>2. Busy with equal precedence.               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>3. Busy with lower precedence.               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 doesn't receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. DN1 does not receive precedence call waiting tone. Call complete and preempted ROUTINE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. DN1 does not receive precedence call waiting tone. Call complete and preempted PRIORITY call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. DN1 does not receive precedence call waiting tone. Call complete and preempted IMMEDIATE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>f. DN1 does not receive precedence call waiting tone. Call complete and preempted FLASH call.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>4. No answer:               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 call diverts to alternate DN# within 15-45 sec.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 doesn't receive precedence call waiting tone.	Y/N	c. DN1 does not receive precedence call waiting tone. Call complete and preempted ROUTINE call.	Y/N	d. DN1 does not receive precedence call waiting tone. Call complete and preempted PRIORITY call.	Y/N	e. DN1 does not receive precedence call waiting tone. Call complete and preempted IMMEDIATE call.	Y/N	f. DN1 does not receive precedence call waiting tone. Call complete and preempted FLASH call.	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 call diverts to alternate DN# within 15-45 sec.	Y/N
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<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> Conditional</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.8.1</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.1	<b>Notes:</b>																																						
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J	<b>MLPP Call Forwarding</b>	<ol style="list-style-type: none"> <li>1. Call forwarding busy higher incoming precedence.               <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1.</li> <li>d. Place a FLASH call from ON2 to DN1.</li> <li>e. Place a FLASH OVERRIDE call from ONA to DNA.</li> <li>f. Place all instruments on hook.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Call forward busy higher incoming precedence.               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. Call Forward Busy not invoked. Call complete and preempted ROUTINE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. Call Forward Busy not invoked. Call complete and preempted PRIORITY call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Call Forward Busy not invoked. Call complete and preempted IMMEDIATE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>f. Call Forward Busy not invoked. Call complete and preempted FLASH call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>g. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. Call Forward Busy not invoked.	Y/N	c. Call Forward Busy not invoked. Call complete and preempted ROUTINE call.	Y/N	d. Call Forward Busy not invoked. Call complete and preempted PRIORITY call.	Y/N	e. Call Forward Busy not invoked. Call complete and preempted IMMEDIATE call.	Y/N	f. Call Forward Busy not invoked. Call complete and preempted FLASH call.	Y/N	g. Calls end.	Y/N																								
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<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> Conditional</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	<b>Notes:</b>																																						
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2																																								
Configure an E1 CAS between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the SUT (DN1, DN2). Provision call forwarding: DN1 call forward to DN2.																																									

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
J C o n t i n u e d	<b>MLPP</b> <b>Call Forwarding (continued)</b>	2. Call forwarding busy equal or lower precedence. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN1. c. Answer DN2. d. Place all instruments on hook.	2. Call forward busy equal or lower precedence. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N		
	<table border="1"> <tr> <td data-bbox="163 310 485 367"><b>Requirement:</b> Conditional</td> <td data-bbox="485 310 772 367"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	3. Call forwarding busy non-preemptable. a. Place a ROUTINE call from ON1 to DN3. b. Place a PRIORITY call from ON2 to DN3. c. Answer DN2. d. Place all instruments on hook.	3. Call forward non-preemptable. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2			
Configure an E1 CAS between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.	e. Place a ROUTINE call from ON1 to DN3. f. Place a ROUTINE call from ON2 to DN3. g. Answer DNB. h. Place all instruments on hook. i. Place a PRIORITY call from ON1 to DN3. j. Place a PRIORITY call from ON2 to DN3. k. Answer DN2. l. Place all instruments on hook. m. Place a PRIORITY call from ON1 to DN3. n. Place a ROUTINE call from ON2 to DN3. o. Answer DN2. p. Place all instruments on hook. 4. Call forwarding busy precedence level preserved. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN2. c. Place a PRIORITY call from ON3 to DN1.  d. Place all instruments on hook. e. Place a PRIORITY call from ON1 to DN1. f. Place a PRIORITY call from ON2 to DN1. g. Allow call to ring-no-answer on DN2. h. Answer attendant console. i. Place all instruments on hook.	e. Call completes. Y/N f. Call forwards to DN2. Y/N g. ON2 to DN2 call completes. Y/N h. Call ends. Y/N i. Call completes. Y/N j. Call forwards to DN2. Y/N k. ON2 to DN2 call completes. Y/N l. Call ends. Y/N m. Call completes. Y/N n. Call forwards to DN2. Y/N o. ON2 to DN2 call completes. Y/N p. Call ends. Y/N 4. Call forward Precedence level preserved. a. Call completes. Y/N b. Call completes. Y/N c. Call forwards to DN2. Y/N ON3 receives precedence ring-back Y/N ON2 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing. Y/N Call complete and preempted ROUTINE call. Y/N d. Calls end. Y/N e. Call completes. Y/N f. Call forwards to DN2. Y/N g. Call routes to attendant console. Y/N h. ON2 to attendant console call completes. Y/N i. Calls end. Y/N			
	<b>Notes:</b>				

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
J C o n t i n u e d	<b>MLPP Call Forwarding (continued)</b>		5. Call forwarding –no reply at called station. a. Place a ROUTINE call from ON1 to DN1 and allow call to ring-no-answer on DN1. b. Answer DN. c. Place all instruments on hook. d. Place a PRIORITY call from ON1 to DN2. e. Place an IMMEDIATE call from ON2 to DN1 and allow call to ring-no-answer on DN1. f. Place all instruments on hook. g. Place a PRIORITY call from ON1 to DN1 and allow call to ring-no-answer on DN1. h. Allow call to ring-no-answer on DN2. i. Answer attendant console. j. Place all instruments on hook. Notes:	5. Call forwarding –no reply at called station. a. Call forwards to DN2. Y/N b. ON1 to DN2 call completes. Y/N c. Call ends. Y/N d. Call completes. Y/N e. Call forwards to DN2. Y/N ON2 receives precedence ring-back. Y/N ON1 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing Y/N Call complete and preempted PRIORITY call Y/N f. Call ends. Y/N g. Call forwards to DN2. Y/N h. Call routes to attendant console. Y/N i. ON1 to attendant console call completes. Y/N j. Calls end. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2		
	Configure an E1 CAS between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.			
K	<b>MLPP Call Transfer</b>		1. Call transfer (normal) interaction. a. Place a PRIORITY call from ON1 to DN1. b. DNA normal call transfers ON1 to DN2. c. Answer DN2. DN1 Hangs up d. Place a ROUTINE call from ON2 to DN2. e. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. g. Place ON2 on hook. h. Place an IMMEDIATE call from ON2 to DN2. i. Place all instruments on hook. j. Place a PRIORITY call from ON1 to DN1. k. DNA normal call transfers ON1 to DN2. l. DNA hangs up before DN2 answers. m. Answer DN2. n. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. o. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. p. Place an IMMEDIATE call from ON2 to DN2. q. Place all instruments on hook. Notes:	1. Call transfer (normal) interaction. a. Call completes. Y/N b. Normal transfer completes. Y/N c. ON1 to DN2 call completes. Y/N d. ON2 receives standard busy tone. Y/N e. Call ends. Y/N f. ON2 receives a BPA Y/N g. Call ends. Y/N h. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N i. Call ends. Y/N j. Call completes. Y/N k. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N l. ON1 receives a precedence ringback. Y/N m. ON1 to DN2 call completes. Y/N n. ON2 receives standard busy tone. Y/N o. ON2 receives a BPA Y/N p. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N q. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		
	Configure an E1 CAS between Origination Node (ON) and SUT Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal call transfer.			

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
K C o n t i n u e d	<b>MLPP Call Transfer</b>	2. Call transfer (explicit) interaction. a. Place a PRIORITY call from DN1 to ON1. b. Place ON1 on hold. c. Call transfer from DN1 to DN2. d. Answer DN2. DN1 Hangs up e. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. g. Place an IMMEDIATE call from ON2 to DN2.  h. Place all instruments on hook. i. Place a PRIORITY call from DN1 to ON1. j. DNA call transfers ON1 to DN2. DNA hangs up before DN2 answers.  k. Answer DN2. l. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. m. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. n. Place an IMMEDIATE call from ON2 to DN2.  o. Place all instruments on hook.	2. Call transfer (explicit) interaction. a. Call completes. Y/N b. ON1 on hold. Y/N c. Explicit transfer completes. Y/N d. ON1 to DN2 call completes. Y/N e. ON2 receives standard busy tone. Y/N  f. ON2 receives a BPA Y/N  g. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N h. Call ends. Y/N i. Call completes. Y/N j. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N ON1 receives a precedence ringback. Y/N k. ON1 to DN2 call completes. Y/N l. ON2 receives standard busy tone. Y/N  m. ON2 receives a BPA Y/N  n. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N o. Call ends. Y/N	
	<b>Requirement:</b> Conditional			<b>Reference:</b> GSCR Sect. 3.8.3
	Configure an E1 CAS between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal call transfer.			
L	<b>MLPP Call Hold</b>	1. Place a ROUTINE call from ON1 to DN1. 2. DNA place ON1 on hold and DN1 go on hook. 3. DNA goes off hook and take ON1 off hold. 4. Place all instruments on hook. 5. Place a ROUTINE call from ON1 to DN1. 6. DNA places ON1 on hold. 7. Place a PRIORITY call from ON2 to ON1.  8. Place all instruments on hook. 9. Place a ROUTINE call from ON1 to DN1. 10. DN1 hook flashes and places ON1 on hold.	1. Call completes. Y/N 2. ON1 on hold. Y/N 3. ON1 to DN1 call completes. Y/N 4. Call ends. Y/N 5. Call completes. Y/N 6. ON1 on hold. Y/N 7. ON1 receives preemption notification Y/N DN1 receives PNT only if DN1 attempts to retrieve ON1 while ON1 is receiving PNT. Y/N Call complete and preempted ON1 held call Y/N 8. Call ends. Y/N 9. Call completes. Y/N 10. ON1 on hold. Y/N	
	<b>Requirement:</b> Conditional			<b>Reference:</b> GSCR Sect. 3.8.4
	Configure an E1 CAS between SUT and Destination Node (DN).			
		<b>Notes:</b>		

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
L C o n t i n u e d	<b>MLPP</b> <b>Call Hold (continued)</b>	11. Place a ROUTINE call from DN1 to ON2. 12. Place a PRIORITY call from DN2 to DN1.	11. Call completes. Y/N 12. DN1, ON1 and ON2 receive PNT. Y/N DN2 receives precedence ringback Y/N DN2 to DNA PRIORITY call completed Y/N	
	<table border="1" data-bbox="170 315 772 363"> <tr> <td data-bbox="170 315 485 363"><b>Requirement:</b> Conditional</td> <td data-bbox="491 315 772 363"><b>Reference:</b> GSCR Sect. 3.8.4</td> </tr> </table> Configure an E1 CAS between SUT and Destination Node (DN).	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4	13. Place all instruments on hook. 14. Place a ROUTINE call from ON1 to DN1. 15. DNA hook flashes and places ON1 on hold 16. Place a ROUTINE call from DN1 to DN2. 17. Place a PRIORITY call from DN3 to DN1.  18. Place all instruments on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4			
M	<b>MLPP</b> <b>Three-way Calling (TWC)</b>	1. TWC, Precedence Level Preserved Each Call. a. Place a ROUTINE call from ON1 to DN1.	1. TWC, Precedence Level Preserved Each Call Y/N a. Call completes. Y/N b. TWC complete between ON1, DN1, and DN2. Y/N	
	<table border="1" data-bbox="170 737 772 786"> <tr> <td data-bbox="170 737 485 786"><b>Requirement:</b> Conditional</td> <td data-bbox="491 737 772 786"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table> Configure an E1 CAS between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1 DN2). Provision DN1 with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	b. DNA does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. c. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. e. Place an IMMEDIATE call from ON2 to DN2.  f. Place all calls on hook. g. Place a ROUTINE call from ON1 to DN1. h. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. i. Place a PRIORITY call from ON2 to DN1. Place ON2 on hook j. Place an IMMEDIATE call from ON2 to DN1.  k. Place all calls on hook
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
		<b>Notes:</b>		

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
M C o n t i n u e d	<b>MLPP</b> <b>Three-way Calling (TWC) (continued)</b>	l. Place a ROUTINE call from ON1 to DN1. m. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2.	l. Call completes. Y/N m. TWC complete between ON1, DN1, and DN2. Y/N	
	<table border="1" data-bbox="170 318 772 365"> <tr> <td data-bbox="170 318 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="491 318 772 365"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	n. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. o. Place a PRIORITY call from ON2 to ON1. Place ON2 on hook. p. Place a PRIORITY call from ON2 to DN2. Place all calls on hook  2. TWC, Precedence Level Preserved, Split Operation a. Place a ROUTINE call from ON1 to DN1. b. DN1 does a hook flash and calls DN2 at PRIORITY c. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place all calls on hook. e. Place a PRIORITY call from ON2 to DN1. Place all calls on hook f. Place a ROUTINE call from ON1 to DN1. g. DN1 does a hook flash and calls DN2 at PRIORITY.  h. Place a PRIORITY call from ON2 to ON1. Place all calls on hook.  i. Place a ROUTINE call from ON1 to DN1. j. DN1 does a hook flash and calls DN2 at PRIORITY.  k. Place an IMMEDIATE call from ON2 to DN2.  l. Place all calls on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
<b>Notes:</b>				

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
N	<b>MLPP Call Pick-Up</b>	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON1 to DN1. Don't answer.</li> <li>2. Have DN2 pick-up call.</li> <li>3. Hang up calls.</li> <li>4. Place ROUTINE call from ON1 to DN1; don't answer.</li> <li>5. Place PRORITY call from ON2 to DN2; don't answer.</li> <li>6. Have DN3 do call pick-up.</li> <li>7. Hang up calls.</li> <li>8. Place IMMEDIATE call from ON1 to DN1; don't answer.</li> <li>9. Place IMMEDIATE call from ON2 to DN2; don't answer.</li> <li>10. Have DN3 do call-pick up.</li> <li>11. Hang up all calls.</li> <li>12. Place FLASH call from ON1 to DN1. Answer.</li> <li>13. Place FLASH OVERRIDE call from DN2 to ON2.</li> <li>14. PLACE FLASH OVERRIDE call from ON3 to DN2. Don't answer.</li> <li>15. Attempt to call pick -up ON2 via DN3.</li> <li>16. DN2 Answer ON2 call.</li> <li>17. Hang up all calls.</li> <li>18. Repeat for other phone types.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call rings. Y/N</li> <li>2. DN2 able to pick-up DN1 call. Y/N</li> <li>3. Calls end. Y/N</li> <li>4. Call completes; DN1 rings. Y/N</li> <li>5. Call completes; DN2 rings at precedence. Y/N</li> <li>6. DN3 call pick-up picks up ON2. Y/N</li> <li>7. Calls end. Y/N</li> <li>8. Call competes and precedence rings at DN1. Y/N</li> <li>9. Call completes and precedence rings at DN2. Y/N</li> <li>10. Call pick-up picks up ON1 (longest). Y/N</li> <li>11. Calls end. Y/N</li> <li>12. Call completes. Y/N</li> <li>13. Call completes. Y/N</li> <li>14. PNT sent to ON1-DN1. Y/N</li> <li>15. Call pick-up unsuccessful. Y/N</li> <li>16. ON2-DN2 call completes. Y/N</li> <li>17. Calls end, Y/N</li> <li>18. Y/N</li> </ol> <table border="1" data-bbox="1430 708 1955 1130"> <thead> <tr> <th colspan="2" data-bbox="1430 708 1955 732">Call Pick-Up</th> </tr> </thead> <tbody> <tr> <td data-bbox="1430 732 1543 833"><b>Analog</b></td> <td data-bbox="1543 732 1955 833"></td> </tr> <tr> <td data-bbox="1430 833 1543 933"><b>BRI</b></td> <td data-bbox="1543 833 1955 933"></td> </tr> <tr> <td data-bbox="1430 933 1543 1034"><b>Digital</b></td> <td data-bbox="1543 933 1955 1034"></td> </tr> <tr> <td data-bbox="1430 1034 1543 1130"><b>VoIP</b></td> <td data-bbox="1543 1034 1955 1130"></td> </tr> </tbody> </table>	Call Pick-Up		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
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<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6												
<p data-bbox="92 1282 2005 1282"><b>Notes:</b></p>													

**Table E-2.6.2. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																												
O	<p><b>Secure Calls</b></p> <p><b>Requirement:</b> MFS, EOS, &amp; SMEO</p> <p><b>Reference:</b></p> <p>Configure an E1 CAS between SUT and DN. Configure a STU-III and STE off of both SUT and DN. Provision SWTs off of each if available.</p>	<p>Place 2 ROUTINE secure voice calls from SUT to DN via a T1 CAS trunk using STU-III, STE, and SWT. Record the MOS and connection rate.</p> <p><b>Notes:</b></p>	<table border="1"> <thead> <tr> <th></th> <th>STU</th> <th>STE</th> <th>SWT</th> </tr> </thead> <tbody> <tr> <td><b>STU call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STU call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> </tbody> </table>		STU	STE	SWT	<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:
			STU	STE	SWT																										
<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
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<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												

**Table E-2.6.3. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Facsimile**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																		
A	<p><b>Facsimile</b></p> <p><b>Requirement:</b> Conditional</p> <p><b>Reference:</b> JTA</p> <p>Configure an E1 CAS link between SUT and DN. Provision a analog fax off of each node.</p>	<p>Place 5 facsimile calls between the two facsimiles. Send the IEEE167A-1995 test sheet fro quality measurement.</p> <p><b>Notes:</b></p>	<table border="1"> <thead> <tr> <th>Call #</th> <th>Completed</th> <th>IEEE167A-1995</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Y/N</td> <td></td> </tr> <tr> <td>2</td> <td>Y/N</td> <td></td> </tr> <tr> <td>3</td> <td>Y/N</td> <td></td> </tr> <tr> <td>4</td> <td>Y/N</td> <td></td> </tr> <tr> <td>5</td> <td>Y/N</td> <td></td> </tr> </tbody> </table>	Call #	Completed	IEEE167A-1995	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	Call #		Completed	IEEE167A-1995																	
1	Y/N																				
2	Y/N																				
3	Y/N																				
4	Y/N																				
5	Y/N																				

**Table E-2.6.4. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Data**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>56K Switched Data</b> <b>Requirement:</b> TS, MFS, & EOS	1. Using the Sunset BRI Test set place a synchronous switched 56K data calls from SUT to DN over the E1 CAS link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____
	<b>Reference:</b> GSCR Sect. 2.3.3  Provision an E1 CAS link between SUT and DN.		
B	<b>64K Switched Data</b> <b>Requirement:</b> TS, MFS, & EOS	1. Using the Sunset BRI Test set place a synchronous switched 64K data calls from SUT to DN over the E1 CAS link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____
	<b>Reference:</b> GSCR Sect. 2.3.3  Provision an E1 CAS link between SUT and DN.		
C	<b>N X 56 Synchronous</b> <b>Requirement:</b> TS, MFS, & EOS	1. Using Sunset BRI test set place a 112 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 SS7 link. 2. Using Sunset BRI test set place a 336 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 SS7 link.  <b>Notes:</b>	1. Bit Errors recorded _____  2. Bit Errors recorded _____
	<b>Reference:</b> GSCR Sect. 2.3.3  Provision an E1 CAS link between SUT and DN.		
D	<b>N X 64 Synchronous</b> <b>Requirement:</b> Ts, MFS, & EOS	1. Using Sunset BRI test set place a 128 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 SS7 link. 2. Using Sunset BRI test set place a 384 kbps data call for 9-hr period with a 2047 pattern SUT to DN via T1 SS7 link.  <b>Notes:</b>	1. Bit Errors recorded _____  2. Bit Errors recorded _____
	<b>Reference:</b> GSCR Sect. 2.3.3  Provision an E1 CAS link between SUT and DN.		

**Table E-2.6.4. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for Data (continued)**

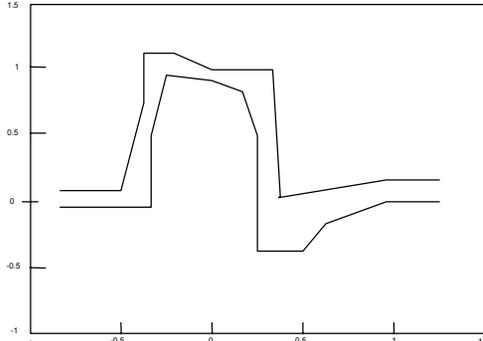
Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
E	<b>Secure Data Calls</b>	1. Place an intraswitch STU-III to STU-III secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	1. No Pattern slips. Y/N
	<b>Requirement:</b> All		No Pattern losses. Y/N
	<b>Reference:</b> CJSCI 6215.01B	2. Place an intraswitch STU-III to STE secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
	Configure an E1 CAS link between SUT and DN. Provision the SUT and DN with a STE and one STU-III.		2. No Pattern slips. Y/N No Pattern losses. Y/N Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
		3. Place a STE to STE secure data call from ON to DN. Run a Bit Error Rate Test at 19.2 Kbps using a 511 test pattern for 9 hours minutes.	3. No Pattern slips. Y/N No Pattern losses. Y/N Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
		<b>Notes:</b>	

**Table E-2.6.5. E1 CAS (MFR1, DTMF, DP) Trunk Interface Test Procedures for VTC**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>VTC</b>	1. Place an intraswitch 384 kbps video call between VTC units via T1 SS7 link.	1. VTC completes. Y/N
	<b>Requirement:</b> MFS, EOS, & SMEO		VTC quality: _____
	<b>Reference:</b> Configure an E1 CAS link between SUT and DN. Provision a VTC unit off of the SUT and DN capable of transmitting 384 kbps video.	<b>Notes:</b>	

**E-2.7 T1 ISDN PRI T1.619a Trunk Interface.** Tables E-2.7.1 through E-2.7.5 outlines the detailed test procedures for testing the SUT's E1 CAS trunk interface. This SS7 interface supports DSN Multi-Level Precedence and Preemption (MLPP) through the CAS signaling protocol. Objectives, criterion and data required for this interface are contained in appendix D-2.7.

**Table E-2.7.1. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Trunking**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
A	<b>Framing &amp; Line Code</b>	1. Use the Sunset T10 test set to do a Pulse Mask Analysis to test the ESF T1 Electrical Interface Characteristics. G.703 and T1.102	 <p data-bbox="1480 787 1774 828">B8ZS/ESF Pulse Mask Passed AMI/SF Pulse Mask Passed</p> <p data-bbox="1942 787 1995 828">Y/N Y/N</p>	
	<table border="1" data-bbox="163 472 772 527"> <tr> <td data-bbox="163 472 472 527"><b>Requirement:</b> TS, MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="472 472 772 527"><b>Reference:</b> GSCR Sect. 7</td> </tr> </table> <p data-bbox="163 527 772 552">Configure 2 T1's, one with ESF/B8ZS and one with SF/AMI</p>	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1		<b>Reference:</b> GSCR Sect. 7
<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 7			
		<b>Notes:</b>		
B	<b>Signaling (continued)</b>	1. Place a ROUTINE call from ON1 to DN1. After call is established hang-up.	1. ON1 to DN1 call completed. Y/N	
	<table border="1" data-bbox="163 990 772 1047"> <tr> <td data-bbox="163 990 472 1047"><b>Requirement:</b> TS, MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="472 990 772 1047"><b>Reference:</b> GSCR Sect. 5</td> </tr> </table> <p data-bbox="163 1047 772 1120">Provision 1 analog subscriber on the Origination Node (ON1), and 1 analog subscriber on the Destination Node (DN1). Configure T1 PRI between subscribers.</p>	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 5	<p data-bbox="772 990 1419 1047">2. Place a ROUTINE call from DN1 to ON1. After call is established hang-up.</p> <p data-bbox="772 1047 1419 1104">3. Verify T1.607/T1.619a signaling</p> <p data-bbox="772 1161 1419 1193">4. Place a ROUTINE call from ON1 to DN1.</p>
<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 5			
		<b>Notes:</b>		

**Table E-2.7.1. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
C	<b>Alarms</b>		1. Break the receive path between SUT and DN at SUT.	1. SUT enter a Local/ Red Alarm state within 2.5 ± 0.5 secs of loss of frame. Y/N
	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 7.1.4 & 7.2.2		Time measured: _____ Y/N
	Provision aT1 PRI link between SUT and destination node (DN)		2. Reconnect the receive path between SUT and DN at SUT.	SUT sends Remote/Yellow Alarm. Y/N
			3. Break the receive path between SUT and DN at DN.	DN enters a Remote/ Yellow Alarm state. Y/N
			4. Reconnect the receive path between SUT and DN at DN.	DN removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N
			3. Break the receive path between SUT and DN at DN.	Time measured: _____ 2. Y/N
			4. Reconnect the receive path between SUT and DN at DN.	2. SUT returns link to service within 15 + 5 secs. Y/N
			3. Break the receive path between SUT and DN at DN.	Time measured: _____ DN removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N
			4. Reconnect the receive path between SUT and DN at DN.	Time measured: _____ 3. DN enter a Local/ Red Alarm state within 2.5 ± 0.5 seconds of loss of frame. Y/N
			3. Break the receive path between SUT and DN at DN.	Time measured: _____ DN sends remote/yellow Alarm. Y/N
			4. Reconnect the receive path between SUT and DN at DN.	SUT enters a Remote/ Yellow Alarm state. Y/N
			3. Break the receive path between SUT and DN at DN.	SUT removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N
			4. Reconnect the receive path between SUT and DN at DN.	Time measured: _____ 2. Y/N
			3. Break the receive path between SUT and DN at DN.	4. DN return slink to service within 15 + 5 Secs. Y/N
			4. Reconnect the receive path between SUT and DN at DN.	Time measured: _____ SUT removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N
			3. Break the receive path between SUT and DN at DN.	Time measured: _____
			4. Reconnect the receive path between SUT and DN at DN.	
			3. Break the receive path between SUT and DN at DN.	
			4. Reconnect the receive path between SUT and DN at DN.	
			3. Break the receive path between SUT and DN at DN.	
			4. Reconnect the receive path between SUT and DN at DN.	
			3. Break the receive path between SUT and DN at DN.	
			4. Reconnect the receive path between SUT and DN at DN.	
			3. Break the receive path between SUT and DN at DN.	
			4. Reconnect the receive path between SUT and DN at DN.	
D	<b>WWNDP</b>		1. Verify in that the switch under test supports Interswitch 7 and 10 digit inter-switch dialing. Note: This can be validated in either translations or documentation	1. Switch supports 7 and10 digit inter-switch Dialing. Y/N
	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 4.5	2. SUT supports DSN user dialing [N-P or S- 1X-KXX-XXXX]; where: N is any digit 2-9 P is any digit 0-4 S is any digit 5-9 X is any digit 0-9 K is any digit 2-8	2. SUT supports DSN user dialing. Y/N
			<b>Notes:</b>	

**Table E-2.7.1. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
E	<b>Routing</b>		<b>TS &amp; MFS:</b>	
	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 4.2	1. Assign a direct route and nine alternate routes in the switch under test (each route with one trunk group)	1. Switch allows assignment of direct route with nine alternate routes Y/N
	Verify in software of the switch under test the following primary route and alternate route capacities		2. Assign a route (direct or alternate) with a minimum of four trunk groups in the switch under test.	2. Switch allows assignment of minimum of four trunk groups per route Y/N
			<b>EOS &amp; SMEO:</b> 1. Assign a direct route and five alternate routes in the switch under test (each route with one trunk group) 2. Assign a route (direct or alternate) with a minimum of one trunk group per route and up to 96 members per trunk group in the switch under test.	1. Switch allows assignment of direct route with five alternate routes Y/N 2. Switch allows assignment of minimum of one trunk group per route and 96 members per trunk group. Y/N
			<b>Notes:</b>	
F	<b>Trunk Groups</b>		1. Busy-out all trunks on the T1 PRI from the SUT maintenance terminal.	1. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N
	<b>Requirement:</b> TS, MFS, EOS, & SMEO	<b>Reference:</b> GSCR Sect. 2.5.5& 2.5.6	2. Break the PRI span for 60 sec. then restore. Monitor the status from the DN maintenance terminal	2. After the link is restored busy-outs remain acknowledged. Y/N
			3. Repeat the procedure from the DN	3. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N
			4. Busy-out one trunk. Idle the trunk on the T1 from the DN maintenance terminal Monitor the status from the ON maintenance terminal	After the link is restored busy-outs remain acknowledged. Y/N
			4. Busy-out one trunk. Idle the trunk on the T1 from the DN maintenance terminal Monitor the status from the ON maintenance terminal	4. The SUT Maintenance Terminal immediately acknowledges a remote busy-out applied from the DN maintenance terminal Y/N
			5. Repeat with 2, 4, 8, 16, 24 trunks busied/idled	The SUT Maintenance Terminal immediately acknowledges an idle applied from the DN maintenance terminal. Y/N
			6. Busy-out one trunk then idle on the T1 from the ON maintenance terminal	5. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N
		6. Busy-out one trunk then idle on the T1 from the ON maintenance terminal	6. The DN Maintenance Terminal immediately acknowledges a remote busy-out applied from the SUT maintenance terminal Y/N	
		7. Monitor the status from the ON maintenance terminal Repeat with 2, 4, 8, 16, 24 trunks busied /idled.	The DN Maintenance Terminal immediately acknowledges an idle applied from the SUT maintenance terminal. Y/N	
		7. Monitor the status from the ON maintenance terminal Repeat with 2, 4, 8, 16, 24 trunks busied /idled.	7. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N	
			<b>Notes:</b>	



**Table E-2.7.1. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
I	<b>DID</b>	1. Place ROUTINE call from ON1 to P1. 2. Place ROUTINE call from ON2 to P2. 3. Place PRIORITY call from ON3 to P1.	1. Call completes. Y/N
	<b>Requirement:</b> MFS & EOS		2. Reroute to announcement, reorder tone or attendant. Y/N
	<b>Reference:</b> GSCR 2.3.2		3. ON1 and P1 receive PNT. Y/N ON3-P1 call completes. Y/N
	Configure the SUT to have a PBX1 connected to it with DID trunks. Configure 2 subscribers, P1 and P2 on the PBX. P2 has a restriction not to receive terminating calls. Configure ON with 3 subscribers ON1, ON2, & ON 3.	<b>Notes:</b>	

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																			
A	<b>MOS</b>	1. Place 2 calls between SUT subscriber and DN subscriber such that the calls traverse a T1 PRI link. Record the average MOS for each set of 10 calls.	Average MOS:																																																			
	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1		<table border="1"> <thead> <tr> <th>Origination</th> <th>Termination</th> <th>Ave MOS of 2 calls</th> </tr> </thead> <tbody> <tr><td>Analog</td><td>Analog</td><td></td></tr> <tr><td>Analog</td><td>BRI</td><td></td></tr> <tr><td>Analog</td><td>Digital</td><td></td></tr> <tr><td>Analog</td><td>VoIP</td><td></td></tr> <tr><td>BRI</td><td>Analog</td><td></td></tr> <tr><td>BRI</td><td>BRI</td><td></td></tr> <tr><td>BRI</td><td>Digital</td><td></td></tr> <tr><td>BRI</td><td>VoIP</td><td></td></tr> <tr><td>Digital</td><td>Analog</td><td></td></tr> <tr><td>Digital</td><td>BRI</td><td></td></tr> <tr><td>Digital</td><td>Digital</td><td></td></tr> <tr><td>Digital</td><td>VoIP</td><td></td></tr> <tr><td>VoIP</td><td>Analog</td><td></td></tr> <tr><td>VoIP</td><td>BRI</td><td></td></tr> <tr><td>VoIP</td><td>Digital</td><td></td></tr> <tr><td>VoIP</td><td>VoIP</td><td></td></tr> </tbody> </table>	Origination	Termination	Ave MOS of 2 calls	Analog	Analog		Analog	BRI		Analog	Digital		Analog	VoIP		BRI	Analog		BRI	BRI		BRI	Digital		BRI	VoIP		Digital	Analog		Digital	BRI		Digital	Digital		Digital	VoIP		VoIP	Analog		VoIP	BRI		VoIP	Digital		VoIP	VoIP	
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VoIP	Digital																																																					
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<b>Reference:</b> CJCSI 6215.01B	Configure a T1 PRI between SUT and DN. Provision one subscriber of each type (analog & BRI). If digital and VoIP phones are supported by the SUT configure one each off of the SUT and DN..	<b>Notes:</b>																																																				

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																																																																																																		
B	<b>MLPP Precedence Parameters</b> <table border="1" data-bbox="163 313 772 370"> <tr> <td data-bbox="163 313 478 370">Requirement: TS, MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="478 313 772 370">Reference: GSCR Sect. 3.7</td> </tr> </table>	Requirement: TS, MFS, EOS, SMEO & PBX1	Reference: GSCR Sect. 3.7	<p>1. Verify T1 PRI Setup Message (Code Set 5) meets the following Information Elements: Y/N</p> <table border="1" data-bbox="856 285 1923 773"> <tr> <th>Bits</th> <th>8</th> <th>7</th> <th>6</th> <th>5</th> <th>4</th> <th>3</th> <th>2</th> <th>1</th> </tr> <tr> <td rowspan="2">Octet 1</td> <td colspan="8" style="text-align: center;">Precedence Level IE Identifier</td> </tr> <tr> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>2</td> <td colspan="8" style="text-align: center;">Length of Precedence Level Contents</td> </tr> <tr> <td>3</td> <td>1</td> <td colspan="2" style="text-align: center;">Coding Standard</td> <td colspan="2" style="text-align: center;">Spare</td> <td colspan="3" style="text-align: center;">Precedence Level</td> </tr> <tr> <td>4</td> <td>0/1</td> <td colspan="3" style="text-align: center;">Spare</td> <td style="text-align: center;">Change Value</td> <td style="text-align: center;">Spare</td> <td colspan="2" style="text-align: center;">LFB Indication</td> </tr> <tr> <td>5</td> <td colspan="4" style="text-align: center;">1<sup>st</sup> Network Identity Digit</td> <td colspan="4" style="text-align: center;">2<sup>nd</sup> Network Identity Digit</td> </tr> <tr> <td>6</td> <td colspan="4" style="text-align: center;">3<sup>rd</sup> Network Identity Digit</td> <td colspan="4" style="text-align: center;">4<sup>th</sup> Network Identity Digit</td> </tr> <tr> <td>7</td> <td colspan="8" style="text-align: center;">Most Significant Bit (MLPP Service Domain 1<sup>st</sup> Octet)</td> </tr> <tr> <td>8</td> <td colspan="8" style="text-align: center;">MLPP Service Domain (2<sup>nd</sup> Octet)</td> </tr> <tr> <td>9</td> <td colspan="8" style="text-align: center;">Least Significant Bit (MLPP Service Domain 3<sup>rd</sup> Octet)</td> </tr> </table> <p>Where,</p> <table border="1" data-bbox="1029 805 1751 1130"> <tr> <th>PRECEDENCE BITS</th> <th>4</th> <th>3</th> <th>2</th> <th>1</th> </tr> <tr> <td>FLASH OVERRIDE (0)</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>FLASH (1)</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>IMMEDIATE (2)</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> </tr> <tr> <td>PRIORITY (3)</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>ROUTINE (4)</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> </tr> </table> <p>2. Verify Setup called party number format is [Y] (KXX) KXX-XXXX. where, digits are: y is 0-3, K is 2-8 and X is 0-9. Y/N</p> <p><b>Notes:</b></p>	Bits	8	7	6	5	4	3	2	1	Octet 1	Precedence Level IE Identifier								0	1	0	0	0	0	0	1	2	Length of Precedence Level Contents								3	1	Coding Standard		Spare		Precedence Level			4	0/1	Spare			Change Value	Spare	LFB Indication		5	1 <sup>st</sup> Network Identity Digit				2 <sup>nd</sup> Network Identity Digit				6	3 <sup>rd</sup> Network Identity Digit				4 <sup>th</sup> Network Identity Digit				7	Most Significant Bit (MLPP Service Domain 1 <sup>st</sup> Octet)								8	MLPP Service Domain (2 <sup>nd</sup> Octet)								9	Least Significant Bit (MLPP Service Domain 3 <sup>rd</sup> Octet)								PRECEDENCE BITS	4	3	2	1	FLASH OVERRIDE (0)	0	0	0	0	FLASH (1)	0	0	0	1	IMMEDIATE (2)	0	0	1	0	PRIORITY (3)	0	0	1	1	ROUTINE (4)	0	1	0	0	
	Requirement: TS, MFS, EOS, SMEO & PBX1	Reference: GSCR Sect. 3.7																																																																																																																																			
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FLASH OVERRIDE (0)	0	0	0	0																																																																																																																																	
FLASH (1)	0	0	0	1																																																																																																																																	
IMMEDIATE (2)	0	0	1	0																																																																																																																																	
PRIORITY (3)	0	0	1	1																																																																																																																																	
ROUTINE (4)	0	1	0	0																																																																																																																																	

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)											
C	<b>MLPP Preempt for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call completes. Y/N 2. Call completes. Y/N 3. SUT sends disconnect message with cause value 9. Y/N ON1-DN1 receive PNT (Signal IE value 9). Y/N SUT sends setup message with precedence. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N											
	<table border="1"> <tr> <td data-bbox="163 313 474 367"><b>Requirement:</b> TS, MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="474 313 772 367"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3	4. Place a FLASH call from DN1 to ON2.  5. Place a FLASH OVERRIDE call from ON1 to DN2.  6. Place a FLASH OVERRIDE call from DN3 to ON3.  7. Place a FLASH OVERRIDE call from ON2 to DN1.  8. Place all instruments on hook. 9. Repeat for all phone types	4. DN sends disconnect message with cause value 9. Y/N ON2-DN2 receive PNT (Signal IE value 9). Y/N DN sends setup message with precedence. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 5. SUT send disconnect message with cause value 9. Y/N ON3-DN3 receive PNT (Signal IE value 9). Y/N SUT sends setup message with precedence. Y/N DN1 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 6. DN sends disconnect message with cause value 9. Y/N ON2-DN1 receive PNT (Signal IE value 9). Y/N DN sends setup message with precedence. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 7. DN send disconnect message with cause 46. Y/N ON2 receives BPA. Y/N 8. Calls end. Y/N 9. <table border="1" data-bbox="1434 976 1955 1206"> <thead> <tr> <th data-bbox="1434 976 1545 1003"></th> <th data-bbox="1545 976 1955 1003">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1434 1003 1545 1052">Analog</td> <td data-bbox="1545 1003 1955 1052"></td> </tr> <tr> <td data-bbox="1434 1052 1545 1101">BRI</td> <td data-bbox="1545 1052 1955 1101"></td> </tr> <tr> <td data-bbox="1434 1101 1545 1149">Digital</td> <td data-bbox="1545 1101 1955 1149"></td> </tr> <tr> <td data-bbox="1434 1149 1545 1206">VoIP</td> <td data-bbox="1545 1149 1955 1206"></td> </tr> </tbody> </table>		Preempt for Reuse (Answered)	Analog		BRI		Digital		VoIP
<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3													
	Preempt for Reuse (Answered)													
Analog														
BRI														
Digital														
VoIP														
	<b>Notes:</b>													

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)											
C	<b>MLPP Preempt for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call in ringing state. Y/N 2. Call completes. Y/N 3. SUT sends disconnect message with cause value 9. Y/N											
	<table border="1" data-bbox="163 315 772 370"> <tr> <td data-bbox="163 315 478 370"><b>Requirement:</b> TS, MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="478 315 772 370"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table> <p data-bbox="163 370 772 444">Configure a T1 PRI with T1.619a trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)</p>	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3	4. Hang up DN2-ON2 call. Redial DN2-ON2 at PRIORITY; don't answer. 5. Place a FLASH call from DN1 to ON2.  6. Hang up ON3 to DN3. Redial at IMMEDIATE; don't answer. 7. Place a FLASH OVERRIDE call from ON1 to DN2.  8. Hang up DN1 to ON2. Redial at FLASH; don't answer. 9. Place a FLASH OVERRIDE call from DN3 to ON3.  10. Place a FLASH OVERRIDE call from ON2 to DN1.  11. Place all instruments on hook. 12. Repeat for all phone types	3. SUT sends disconnect message with cause value 9. Y/N ON1 receives PNT (Signal IE value 9). Y/N SUT sends setup message with precedence. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N 4. Call in ringing state. Y/N 5. DN send disconnect message with cause value 9. Y/N DN2 receive PNT (Signal IE value 9). Y/N DN sends setup message with precedence. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 6. Call in ringing state. Y/N 7. SUT send disconnect message with cause value 9. Y/N ON3 receives PNT (Signal IE value 9). Y/N SUT sends setup message with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 8. Call in ringing state. Y/N 9. DN sends disconnect message with cause value 9. Y/N DN1 receive PNT (Signal IE value 9). Y/N DN sends setup message with precedence. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 10. DN sends disconnect message with cause value 46. Y/N ON2 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" data-bbox="1419 1071 2009 1299"> <thead> <tr> <th colspan="2" data-bbox="1419 1071 2009 1101">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1419 1101 1545 1149">Analog</td> <td data-bbox="1545 1101 2009 1149"></td> </tr> <tr> <td data-bbox="1419 1149 1545 1198">BRI</td> <td data-bbox="1545 1149 2009 1198"></td> </tr> <tr> <td data-bbox="1419 1198 1545 1247">Digital</td> <td data-bbox="1545 1198 2009 1247"></td> </tr> <tr> <td data-bbox="1419 1247 1545 1299">VoIP</td> <td data-bbox="1545 1247 2009 1299"></td> </tr> </tbody> </table>	Preempt for Reuse (Answered)		Analog		BRI		Digital		VoIP
<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3													
Preempt for Reuse (Answered)														
Analog														
BRI														
Digital														
VoIP														
		<b>Notes:</b>												

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from ON2 to DN1.	1. Call completes. Y/N 2. SUT send disconnect message with cause value 8. Y/N ON1-DN1 receive PNT (Signal IE value 9). Y/N SUT sends setup message with precedence. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N										
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, EOS, SMEO &amp; PBX1</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3										
	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3											
	<b>Same as above.</b>	3. Place an IMMEDIATE call from DN2 to ON2.  4. Place a FLASH call from ON1 to DN2.  6. Place a FLASH OVERRIDE call from DN1 to ON1.  7. Place a FLASH OVERRIDE call from ON2 to DN2. 8. Place FLASH OVERRIDE call from DN3 to ON3  9. Place all instruments on hook. 10. Repeat for all phone types.	3. DN send disconnect message with cause value 8. Y/N ON2-DN1 receive PNT (Signal IE value 9). Y/N DN sends setup message with precedence. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N 4. SUT send disconnect message with cause value 8. Y/N DN2-ON2 receive PNT(Signal IE value 9). Y/N SUT sends setup message with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N 6. DN sends disconnect message with cause value 8. Y/N ON1-DN2 receive PNT(Signal IE value 9). Y/N DN sends setup message with precedence. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N 7. Call completes. Y/N 8. SUT sends disconnect message with cause 46. Y/N DN3 receives BPA. Y/N 9. Calls end. Y/N 10. <table border="1" style="width: 100%; margin-top: 10px;"> <tr> <th colspan="2" style="text-align: left;">Preempt for Reuse (Answered)</th> </tr> <tr> <td style="width: 30%;"><b>Analog</b></td> <td></td> </tr> <tr> <td><b>BRI</b></td> <td></td> </tr> <tr> <td><b>Digital</b></td> <td></td> </tr> <tr> <td><b>VoIP</b></td> <td></td> </tr> </table>	Preempt for Reuse (Answered)		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
	Preempt for Reuse (Answered)												
	<b>Analog</b>												
	<b>BRI</b>												
	<b>Digital</b>												
	<b>VoIP</b>												
		<b>Notes:</b>											

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from ON2 to DN1.	1. Call in ringing state. Y/N 2. SUT send disconnect message with cause value 8. Y/N ON1 receives PNT(Signal IE value 9). Y/N SUT sends setup message with precedence. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N										
	<table border="1"> <tr> <td data-bbox="163 316 483 365"><b>Requirement:</b> TS, MFS, EOS, SMEO &amp; PBX1</td> <td data-bbox="483 316 772 365"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3										
<b>Requirement:</b> TS, MFS, EOS, SMEO & PBX1	<b>Reference:</b> GSCR Sect. 3												
	Same as above.	3. Hang up ON2 to DN1 call. Redial at PRIORITY; don't answer. 4. Place an IMMEDIATE call from DN2 to ON2.  5. Hang up DN2 to ON2. Redial at IMMEDIATE; don't answer. 6. Place a FLASH call from ON1 to DN2.  7. Hang up ON1 to DN2 call. Redial at FLASH; don't answer. 8. Place a FLASH OVERRIDE call from DN1 to ON1.  9. Place a FLASH OVERRIDE call from ON2 to DN2. 10. Place FLASH OVERRIDE call from DN3 to ON3  11. Place all instruments on hook. 12. Repeat for all phone types.	3. Call in ringing state. Y/N 4. DN send disconnect message with cause value 8. Y/N ON2-DN1 receive PNT (Signal IE value 9). Y/N DN sends setup message with precedence. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N 5. Call in ringing state. Y/N 6. SUT send disconnect message with cause value 8. Y/N DN2 receives PNT (Signal IE value 9). Y/N SUT sends setup message with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N 7. Call in ringing state. Y/N 8. DN sends disconnect message with cause value 8. Y/N ON1 receives PNT (Signal IE value 9). Y/N DN sends setup message with precedence. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N 9. Call completes. Y/N 10. SUT sends disconnect message with cause 46. Y/N DN3 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" data-bbox="1428 1047 1953 1274"> <thead> <tr> <th colspan="2">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td></td> </tr> <tr> <td>BRI</td> <td></td> </tr> <tr> <td>Digital</td> <td></td> </tr> <tr> <td>VoIP</td> <td></td> </tr> </tbody> </table>	Preempt for Reuse (Answered)		Analog		BRI		Digital		VoIP	
Preempt for Reuse (Answered)													
Analog													
BRI													
Digital													
VoIP													
		<b>Notes:</b>											

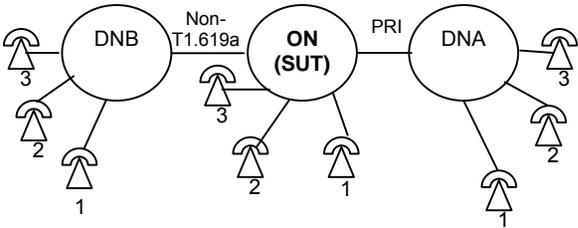
**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
D	<b>MLPP Trunk selection</b>	<b>Hunting:</b> 1. Place a ROUTINE data call between SUT and DN. 2. Place a PRIORITY data call between SUT and DN. 3. Place an IMMEDIATE voice call. Hang up all calls. 4. Place a ROUTINE data call 5. Place ROUTINE voice call 6. Place IMMEDIATE data call.	1. Call completes. Y/N 2. Call completes. Y/N 3. Routine data call preempted; PNT(Signal IE value 9). Y/N 4. Call completes. Y/N 5. Call completes. Y/N 6. Data call preempted. Y/N	
	<table border="1" data-bbox="172 319 772 370"> <tr> <td data-bbox="172 319 485 370"><b>Requirement:</b> TS, MFS, EOS &amp; SMEO</td> <td data-bbox="493 319 772 370"><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> </table> Configure a T1 PRI between SUT and Destination Node (DN). On the T1 SS7, classmark for voice and data, busy all but four trunks.	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3	<b>Notes:</b>
<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3			
E	<b>MLPP Method 1</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY. 5. Place a call from ON5 to DN5 at ROUTINE. 6. Place a call from ON6 to DN6 at PRIORITY. 7. Place a ROUTINE call from ON7 to DN7 at ROUTINE. 8. Hang up ON5 to DN5 call 9. Place a call from ON7 to DN7 at IMMEDIATE. 10 Place a call from ON5 to DN5 at IMMEDIATE.  11. Place a call from ON1 to DN1 at FLASH  12. Place a call from ON2 to DN2 at FLASH OVERRIDE.  13. Place a call from ON5 to DN5 at IMMEDIATE.  14. Place a call from ON3 to DN3 at FLASH.  15. Place a call from ON4 to DN4 at IMMEDIATE.  16. Place a call from ON6 to DN6 at IMMEDIATE	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. Call completes over alternate route 1. Y/N 5. Call completes over alternate route 2. Y/N 6. Call completes over alternate route 2. Y/N 7. Call receives T120 busy tone. Y/N 8. Trunk is idled on alternate route 2. Y/N 9. Call completes over alternate route 2. Y/N 10. ON1 and DN1 receive preemption notification. Call completes over direct route. Y/N 11. ON2 and DN2 receive preemption notification. Call completes over direct route. Y/N 12. ON5 and DN5 receive preemption notification. Call completes over direct route. Y/N 13. ON3 and DN3 receive preemption notification. Call completes over alternate route 1. Y/N 14. ON4 and DN4 receive preemption notification. Call completes over alternate route 1. Y/N 15. ON6 and DN6 receive preemption notification. Call completes over alternate route 2. Y/N 16. ON6 receives a BPA Y/N	
	<table border="1" data-bbox="172 673 772 724"> <tr> <td data-bbox="172 673 485 724"><b>Requirement:</b> TS, MFS, EOS &amp; SMEO</td> <td data-bbox="493 673 772 724"><b>Reference:</b> GSCR Sect. 3.2.3.1.2.1</td> </tr> </table> Configure a T1 PRI between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes. <b>Provision 7 subscribers off of each node (ON1-ON7, DN1-DN7)</b>	<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1	<b>Notes:</b>
<b>Requirement:</b> TS, MFS, EOS & SMEO	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1			

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
F	<b>MLPP Method 2</b>	1. Place a call from ON to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N	
	<table border="1" data-bbox="170 318 772 367"> <tr> <td data-bbox="170 318 485 367"><b>Requirement:</b> TS &amp; MFS</td> <td data-bbox="491 318 772 367"><b>Reference:</b> GSCR Sect. 3.2.3.1.2.2</td> </tr> </table> <p data-bbox="170 371 772 464">Configure a T1 PRI between SUT and Destination Node (DN). On the T1 PRI, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.</p>	<b>Requirement:</b> TS & MFS	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2	5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.  7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.  10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.
<b>Requirement:</b> TS & MFS	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2			
G	<b>MLPP Precedence Call Diversion</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N	
	<table border="1" data-bbox="170 794 772 842"> <tr> <td data-bbox="170 794 485 842"><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td data-bbox="491 794 772 842"><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> </table> <p data-bbox="170 847 772 940">Configure a T1 PRI between SUT and Destination Node (DN). On the T1 PRI, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.</p>	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3	5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.  7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.  10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.
<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 3.2.3			
		<b>Notes:</b>		

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																														
H	<p><b>MLPP</b> <b>ANSI T1.619a and Non-T1.619a Interaction</b></p>	<ol style="list-style-type: none"> <li>Verify SUT is capable of domain 16777215.</li> <li>Verify like service domains interaction:                             <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA1. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON2 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from DNA3 to ON3. Hang up.</li> </ol> </li> <li>Verify unlike domains interaction:                             <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA2. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA3. Hang up.</li> <li>Place ROUTINE call from ON3 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON3 to DNA2. Hang up.</li> </ol> </li> <li>Service domain connections:                             <ol style="list-style-type: none"> <li>Place a ROUTINE call from ON2 to ON1.</li> <li>Place a PRIORITY call from DNA1 to ON1. Hang up.</li> <li>Place a ROUTINE call from DNB1 to DNA1.</li> <li>Place a FLASH call from ON1 to DNA1. Hang up.</li> <li>Place a ROUTINE call from DNB2 to ON1.</li> <li>Place an IMMEDIATE call from DNA1 to ON1. Hang up.</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>	<ol style="list-style-type: none"> <li>SUT capable of domain 16777215. Y/N</li> <li>Like domains:                             <ol style="list-style-type: none"> <li>Call completes. Y/N</li> </ol> </li> <li>Unlike domains:                             <ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> </ol> </li> <li>Service Domain connections:                             <ol style="list-style-type: none"> <li>Call completes; connection domain is FFFFFFFF. Y/N</li> <li>DN1 gets BPA. Y/N</li> <li>Call completes; connection domain is 0. Y/N</li> <li>Call preempts; DNB1 to DNA1 link. Y/N</li> <li>Call completes. Domain is 0. Y/N</li> <li>Call preempts DNB2 to ON1 call. Y/N</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>																														
	<p><b>Requirement:</b> TS, MFS, EOS, SMEO &amp; PBX1</p> <p><b>Reference:</b> GSCR Sect. 3.7.6</p> <p>Configure a T1 PRI between ON (SUT) and DN (DNA). Configure a non-T1.619a link between ON and DNB. Busy all but one trunk on both links. Provision 3 subscribers off of each node. Assign ON1, DNA1, and DNB1 with a Service Domain of 000000. Provision ON2, DNA2 and DNB2 with service domain FFFFFFFF in hexadecimal. (16777215 in Decimal). Provision ON3, DNA3 and DNB3 with no service domain. Provision the SUT &amp; DNs to have service domain 0 as the default. Use SS7 protocol analyzer to monitor the T1 SS7 messages on the signaling link.</p> 			<table border="1" data-bbox="1428 820 1995 1274"> <thead> <tr> <th>Phone type</th> <th>Non T1.619a Link</th> <th>Interaction Correct</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td rowspan="3">T1 CAS</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td rowspan="3">E1 CAS</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td rowspan="3">T1 PRI (non-T1.619a)</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td>Y/N</td> </tr> <tr> <td>Analog</td> <td rowspan="3">E1 PRI (non-Q.955.3)</td> <td>Y/N</td> </tr> <tr> <td>BRI</td> <td>Y/N</td> </tr> <tr> <td>Digital</td> <td>Y/N</td> </tr> <tr> <td>VoIP</td> <td></td> <td>Y/N</td> </tr> </tbody> </table> <p><b>Notes:</b></p>	Phone type	Non T1.619a Link	Interaction Correct	Analog	T1 CAS	Y/N	BRI	Y/N	Digital	Y/N	VoIP	E1 CAS	Y/N	Analog	Y/N	BRI	Y/N	Digital	T1 PRI (non-T1.619a)	Y/N	VoIP	Y/N	Analog	E1 PRI (non-Q.955.3)	Y/N	BRI	Y/N	Digital	Y/N
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**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																												
I	<b>MLPP Precedence Call Waiting</b>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:               <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accepts waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook.</li> </ol> </li> <li>2. Busy with equal precedence:               <ol style="list-style-type: none"> <li>a. Place a PRIORITY call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accept waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook.</li> </ol> </li> <li>3. Busy with lower precedence:               <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1. Place ON1 on hook.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1. Place ON2 on hook.</li> <li>d. Place a FLASH call from ON2 to DN1. Place ON1 on hook.</li> <li>e. Place a FLASH OVERRIDE call from ON1 to DN1. Place all instruments on hook.</li> </ol> </li> <li>4. No answer:               <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Don't answer ON2 call.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>2. Busy with equal precedence.               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>3. Busy with lower precedence.               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 doesn't receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call completes and preempted ROUTINE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted PRIORITY call</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted IMMEDIATE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted FLASH call</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>4. No answer:               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 call diverts to alternate DN# within 15-45 sec.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 doesn't receive precedence call waiting tone.	Y/N	Call completes and preempted ROUTINE call.	Y/N	c. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted PRIORITY call	Y/N	d. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted IMMEDIATE call.	Y/N	e. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted FLASH call	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 call diverts to alternate DN# within 15-45 sec.	Y/N
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J	<b>MLPP Call Forwarding</b>	<ol style="list-style-type: none"> <li>1. Call forwarding busy higher incoming precedence.               <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> </ol> </li> <li>c. Place an IMMEDIATE call from ON1 to DN1.</li> <li>d. Place a FLASH call from ON2 to DN1.</li> <li>e. Place a FLASH OVERRIDE call from ONA to DNA.</li> <li>f. Place all instruments on hook.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call forward busy higher incoming precedence.               <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted ROUTINE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted PRIORITY call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted IMMEDIATE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>Call complete and preempted FLASH call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>f. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. Call Forward Busy not invoked.	Y/N	Call complete and preempted ROUTINE call.	Y/N	c. Call Forward Busy not invoked.	Y/N	Call complete and preempted PRIORITY call.	Y/N	d. Call Forward Busy not invoked.	Y/N	Call complete and preempted IMMEDIATE call.	Y/N	e. Call Forward Busy not invoked.	Y/N	Call complete and preempted FLASH call.	Y/N	f. Calls end.	Y/N																								
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Configure a T1 PRI between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the SUT (DN1, DN2). Provision call forwarding: DN1 call forward to DN2.																																															

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
J C o n t i n u e d	<b>MLPP</b> <b>Call Forwarding (continued)</b>	2. Call forwarding busy equal or lower precedence. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN1. c. Answer DN2. d. Place all instruments on hook.	2. Call forward busy equal or lower precedence. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N	
	<table border="1" data-bbox="170 315 772 365"> <tr> <td data-bbox="170 315 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="491 315 772 365"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table> <p data-bbox="170 370 772 488">Configure a T1 PRI between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.</p>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	3. Call forwarding busy non-preemptable. a. Place a ROUTINE call from ON1 to DN3. b. Place a PRIORITY call from ON2 to DN3. c. Answer DN2. d. Place all instruments on hook. e. Place a ROUTINE call from ON1 to DN3. f. Place a ROUTINE call from ON2 to DN3. g. Answer DNB. h. Place all instruments on hook. i. Place a PRIORITY call from ON1 to DN3. j. Place a PRIORITY call from ON2 to DN3. k. Answer DN2. l. Place all instruments on hook. m. Place a PRIORITY call from ON1 to DN3. n. Place a ROUTINE call from ON2 to DN3. o. Answer DN2. p. Place all instruments on hook. 4. Call forwarding busy precedence level preserved. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN2. c. Place a PRIORITY call from ON3 to DN1.  d. Place all instruments on hook. e. Place a PRIORITY call from ON1 to DN1. f. Place a PRIORITY call from ON2 to DN1. g. Allow call to ring-no-answer on DN2. h. Answer attendant console. i. Place all instruments on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2			
<b>Notes:</b>				

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
J C o n t i n u e d	<b>MLPP Call Forwarding (continued)</b>		5. Call forwarding –no reply at called station. a. Place a ROUTINE call from ON1 to DN1 and allow call to ring-no-answer on DN1. b. Answer DN. c. Place all instruments on hook. d. Place a PRIORITY call from ON1 to DN2. e. Place an IMMEDIATE call from ON2 to DN1 and allow call to ring-no-answer on DN1.  f. Place all instruments on hook. g. Place a PRIORITY call from ON1 to DN1 and allow call to ring-no-answer on DN1. h. Allow call to ring-no-answer on DN2. i. Answer attendant console. j. Place all instruments on hook.	5. Call forwarding –no reply at called station. a. Call forwards to DN2. Y/N b. ON1 to DN2 call completes. Y/N c. Call ends. Y/N d. Call completes. Y/N e. Call forwards to DN2. Y/N ON2 receives precedence ring-back. Y/N ON1 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing Y/N Call complete and preempted PRIORITY call Y/N f. Call ends. Y/N g. Call forwards to DN2. Y/N  h. Call routes to attendant console. Y/N i. ON1 to attendant console call completes. Y/N j. Calls end. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2		
	Configure a T1 PRI between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.		1. Call transfer (normal) interaction. a. Place a PRIORITY call from ON1 to DN1. b. DNA normal call transfers ON1 to DN2. c. Answer DN2. DN1 Hangs up d. Place a ROUTINE call from ON2 to DN2. e. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. g. Place ON2 on hook. h. Place an IMMEDIATE call from ON2 to DN2.  i. Place all instruments on hook. j. Place a PRIORITY call from ON1 to DN1. k. DNA normal call transfers ON1 to DN2.  l. DNA hangs up before DN2 answers. m. Answer DN2. n. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. o. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. p. Place an IMMEDIATE call from ON2 to DN2.  q. Place all instruments on hook.	1. Call transfer (normal) interaction. a. Call completes. Y/N b. Normal transfer completes. Y/N c. ON1 to DN2 call completes. Y/N d. ON2 receives standard busy tone. Y/N e. Call ends. Y/N f. ON2 receives a BPA Y/N g. Call ends. Y/N h. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N i. Call ends. Y/N j. Call completes. Y/N k. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N l. ON1 receives a precedence ringback. Y/N m. ON1 to DN2 call completes. Y/N n. ON2 receives standard busy tone. Y/N  o. ON2 receives a BPA Y/N  p. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N q. Call ends. Y/N
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3			
K	Configure a T1 PRI between Origination Node (ON) and SUT Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal call transfer.		<b>Notes:</b>	

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
K C o n t i n u e d	<b>MLPP Call Transfer</b>		2. Call transfer (explicit) interaction. a. Place a PRIORITY call from DN1 to ON1. b. Place ON1 on hold. c. Call transfer from DN1 to DN2. d. Answer DN2. DN1 Hangs up e. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. g. Place an IMMEDIATE call from ON2 to DN2.  h. Place all instruments on hook. i. Place a PRIORITY call from DN1 to ON1. j. DNA call transfers ON1 to DN2. DNA hangs up before DN2 answers.  k. Answer DN2. l. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. m. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. n. Place an IMMEDIATE call from ON2 to DN2.  o. Place all instruments on hook.	2. Call transfer (explicit) interaction. a. Call completes. Y/N b. ON1 on hold. Y/N c. Explicit transfer completes. Y/N d. ON1 to DN2 call completes. Y/N e. ON2 receives standard busy tone. Y/N  f. ON2 receives a BPA Y/N  g. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N h. Call ends. Y/N i. Call completes. Y/N j. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N ON1 receives a precedence ringback. Y/N k. ON1 to DN2 call completes. Y/N l. ON2 receives standard busy tone. Y/N  m. ON2 receives a BPA Y/N  n. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N o. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		
L	<b>MLPP Call Hold</b>		1. Place a ROUTINE call from ON1 to DN1. 2. DNA place ON1 on hold and DN1 go on hook. 3. DNA goes off hook and take ON1 off hold. 4. Place all instruments on hook. 5. Place a ROUTINE call from ON1 to DN1. 6. DNA places ON1 on hold. 7. Place a PRIORITY call from ON2 to ON1.  8. Place all instruments on hook. 9. Place a ROUTINE call from ON1 to DN1. 10. DN1 hook flashes and places ON1 on hold.	1. Call completes. Y/N 2. ON1 on hold. Y/N 3. ON1 to DN1 call completes. Y/N 4. Call ends. Y/N 5. Call completes. Y/N 6. ON1 on hold. Y/N 7. ON1 receives preemption notification Y/N DN1 receives PNT only if DN1 attempts to retrieve ON1 while ON1 is receiving PNT. Y/N Call complete and preempted ON1 held call Y/N 8. Call ends. Y/N 9. Call completes. Y/N 10. ON1 on hold. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4		
<b>Notes:</b>				
<b>Notes:</b>				

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
L C o n t i n u e d	<b>MLPP Call Hold (continued)</b>	11. Place a ROUTINE call from DN1 to ON2. 12. Place a PRIORITY call from DN2 to DN1.	11. Call completes. Y/N 12. DN1, ON1 and ON2 receive PNT. Y/N DN2 receives precedence ringback Y/N DN2 to DNA PRIORITY call completed Y/N	
	<table border="1"> <tr> <td data-bbox="172 316 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="493 316 772 365"><b>Reference:</b> GSCR Sect. 3.8.4</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4	13. Place all instruments on hook. 14. Place a ROUTINE call from ON1 to DN1. 15. DNA hook flashes and places ON1 on hold. 16. Place a ROUTINE call from DN1 to DN2. 17. Place a PRIORITY call from DN3 to DN1.  18. Place all instruments on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4			
M	<b>MLPP Three-way Calling (TWC)</b>	1. TWC, Precedence Level Preserved Each Call. a. Place a ROUTINE call from ON1 to DN1. b. DNA does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. c. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. e. Place an IMMEDIATE call from ON2 to DN2.	1. TWC, Precedence Level Preserved Each Call a. Call completes. Y/N b. TWC complete between ON1, DN1, and DN2. Y/N	
	<table border="1"> <tr> <td data-bbox="172 657 485 706"><b>Requirement:</b> Conditional</td> <td data-bbox="493 657 772 706"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	f. Place all calls on hook. g. Place a ROUTINE call from ON1 to DN1. h. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. i. Place a PRIORITY call from ON2 to DN1. Place ON2 on hook j. Place an IMMEDIATE call from ON2 to DN1.  k. Place all calls on hook
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
		<b>Notes:</b>		

**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
M C o n t i n u e d	<p><b>MLPP</b> <b>Three-way Calling (TWC) (continued)</b></p>	<p>l. Place a ROUTINE call from ON1 to DN1. m. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2.</p>	<p>l. Call completes. Y/N m. TWC complete between ON1, DN1, and DN2. Y/N</p>	
	<table border="1" data-bbox="163 310 772 365"> <tr> <td data-bbox="163 310 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="485 310 772 365"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table> <p>Configure a T1 PRI between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.</p>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	<p>n. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. o. Place a PRIORITY call from ON2 to ON1. Place ON2 on hook.</p> <p>p. Place a PRIORITY call from ON2 to DN2. Place all calls on hook.</p> <p>2. TWC, Precedence Level Preserved, Split Operation</p> <p>a. Place a ROUTINE call from ON1 to DN1. b. DN1 does a hook flash and calls DN2 at PRIORITY c. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place all calls on hook. e. Place a PRIORITY call from ON2 to DN1. Place all calls on hook f. Place a ROUTINE call from ON1 to DN1. g. DN1 does a hook flash and calls DN2 at PRIORITY.</p> <p>h. Place a PRIORITY call from ON2 to ON1. Place all calls on hook.</p> <p>i. Place a ROUTINE call from ON1 to DN1. j. DN1 does a hook flash and calls DN2 at PRIORITY.</p> <p>k. Place an IMMEDIATE call from ON2 to DN2.</p> <p>l. Place all calls on hook.</p> <p><b>Notes:</b></p>
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			



**Table E-2.7.2. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																												
O	<p><b>Secure Calls</b></p> <p><b>Requirement:</b> TS, MFS, EOS, SMEO &amp; PBX1</p> <p><b>Reference:</b> CJCSI 6215.01B</p> <p>Configure a T1 PRI between SUT and DN. Configure a STU-III and STE off of both SUT and DN. Provision SWTs off of each if available.</p>	<p>Place 2 ROUTINE secure voice calls from SUT to DN via a T1 PRI trunk using STU-III, STE, and SWT. Record the MOS and connection rate.</p> <p><b>Notes:</b></p>	<table border="1"> <thead> <tr> <th></th> <th>STU</th> <th>STE</th> <th>SWT</th> </tr> </thead> <tbody> <tr> <td><b>STU call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STU call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> </tbody> </table>		STU	STE	SWT	<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:
			STU	STE	SWT																										
<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												

**Table E-2.7.3. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Facsimile**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																		
A	<p><b>Facsimile</b></p> <p><b>Requirement:</b> Conditional</p> <p><b>Reference:</b> JTA</p> <p>Configure a T1 PRI link between SUT and DN. Provision a analog fax off of each node.</p>	<p>Place 5 facsimile calls between the two facsimiles. Send the IEEE167A-1995 test sheet fro quality measurement.</p> <p><b>Notes:</b></p>	<table border="1"> <thead> <tr> <th>Call #</th> <th>Completed</th> <th>IEEE167A-1995</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Y/N</td> <td></td> </tr> <tr> <td>2</td> <td>Y/N</td> <td></td> </tr> <tr> <td>3</td> <td>Y/N</td> <td></td> </tr> <tr> <td>4</td> <td>Y/N</td> <td></td> </tr> <tr> <td>5</td> <td>Y/N</td> <td></td> </tr> </tbody> </table>	Call #	Completed	IEEE167A-1995	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	Call #		Completed	IEEE167A-1995																	
1	Y/N																				
2	Y/N																				
3	Y/N																				
4	Y/N																				
5	Y/N																				

**Table E-2.7.4. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Data**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
A	<b>56K Switched Data</b>		1. Using the Sunset BRI Test set place a synchronous switched 56K data calls from SUT to DN over the T1 PRI link and conduct a BERT for 9 hours with a pattern of 2047.	1. Bit Errors recorded _____
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3		
	Provision a T1 PRI link between SUT and DN.		<b>Notes:</b>	
B	<b>64K Switched Data</b>		1. Using the Sunset BRI Test set place a synchronous switched 64K data calls from SUT to DN over the T1 PRI link and conduct a BERT for 9 hours with a pattern of 2047.	1. Bit Errors recorded _____
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3		
	Provision a T1 PRI link between SUT and DN.		<b>Notes:</b>	
C	<b>N X 56 Synchronous</b>		1. Using Sunset BRI test set place a 112 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 PRI link. 2. Using Sunset BRI test set place a 336 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 PRI link.	1. Bit Errors recorded _____ 2. Bit Errors recorded _____
	<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3		
	Provision a T1 PRI link between SUT and DN.		<b>Notes:</b>	
D	<b>N X 64 Synchronous</b>		1. Using Sunset BRI test set place a 128 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via T1 PRI link. 2. Using Sunset BRI test set place a 384 kbps data call for 9-hr period with a 2047 pattern SUT to DN via T1 PRI link.	1. Bit Errors recorded _____ 2. Bit Errors recorded _____
	<b>Requirement:</b> Ts, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3		
	Provision a T1 PRI link between SUT and DN.		<b>Notes:</b>	

**Table E-2.7.4. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for Data (continued)**

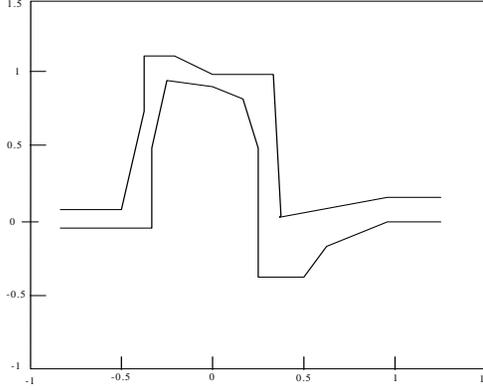
Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
E	<b>Secure Data Calls</b>	1. Place an intraswitch STU-III to STU-III secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	1. No Pattern slips. Y/N
	<b>Requirement:</b> All		No Pattern losses. Y/N
	<b>Reference:</b> CJSCI 6215.01B	2. Place an intraswitch STU-III to STE secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
	Configure a T1 PRI link between SUT and DN. Provision the SUT and DN with a STE and one STU-III.		2. No Pattern slips. Y/N
		3. Place a STE to STE secure data call from ON to DN. Run a Bit Error Rate Test at 19.2 Kbps using a 511 test pattern for 9 hours minutes.	No Pattern losses. Y/N
			Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
		<b>Notes:</b>	

**Table E-2.7.5. T1 ISDN PRI T1.619a Trunk Interface Test Procedures for VTC**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>VTC</b>	1. Place an intraswitch 384 kbps video call between VTC units via T1 PRI link.	1. VTC completes. Y/N
	<b>Requirement:</b> MFS, EOS, & SMEO		VTC quality. _____
	<b>Reference:</b> Configure a T1 PRI link between SUT and DN. Provision a VTC unit off of the SUT and DN capable of transmitting 384 kbps video.		
		<b>Notes:</b>	

**E-2.8 E1 ISDN PRI Q.955.3 Trunk Interface.** Tables E-2.8.1 through E-2.8.5 outlines the detailed test procedures for testing the SUT's E1 CAS trunk interface. This SS7 interface supports DSN Multi-Level Precedence and Preemption (MLPP) through the CAS signaling protocol. Objectives, criterion and data required for this interface are contained in appendix D-2.8.

**Table E-2.8.1. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Trunking**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
A	<b>Framing &amp; Line Code</b>	1. Use the Sunset E10 test set to do a Pulse Mask Analysis to test the Electrical Interface Characteristics.		
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 7</td> </tr> <tr> <td colspan="2">Configure an E1 with HDB3 line coding</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS (Europe only)
<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 7			
Configure an E1 with HDB3 line coding				
B	<b>Signaling</b>	1. Place a ROUTINE call from ON1 to DN1. After call is established hang-up. 2. Place a ROUTINE call from DN1 to ON1. After call is established hang-up. 3. Verify Q.931/Q.955.3 signaling.  4. Place a ROUTINE call from ON1 to DN1.	1. ON1 to DN1 call completed. Y/N 2. DN1 to ON1 call completed Y/N 3. The following messages as defined in Q.931/Q.955.3: SETUP, ALERTING, NOTIFY and DISCONNECT.  ON1 to DN1 call completed. Y/N 4. The SETUP message contains the following Information IEs: PRECEDENCE LEVEL IE, CALLING PARTY NUMBER (OPTIONAL) IE, CALLED PARTY NUMBER IE, CHANNEL IDENTIFICATION IE, SIGNAL IE, CALL and IDENTITY IE. Service Domain 0 is displayed in the Facility Level IE Y/N	
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 5</td> </tr> <tr> <td colspan="2">Provision two analog subscriber on the Origination Node (ON1, ON2), and two analog subscribers on the Destination Node (DN1, DN2). Configure T1 PRI between subscribers.</td> </tr> </table>		<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 5
<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 5			
Provision two analog subscriber on the Origination Node (ON1, ON2), and two analog subscribers on the Destination Node (DN1, DN2). Configure T1 PRI between subscribers.				
		<b>Notes:</b>		

**Table E-2.8.1. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
C	<b>Alarms</b>		1. Break the receive path between SUT and DN at SUT.	1. SUT enter a Local/ Red Alarm state within 2.5 ± 0.5 secs of loss of frame. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 7.1.4 & 7.2.2		Time measured: _____ Y/N
	Provision an E1 PRI link between SUT and destination node (DN)		2. Reconnect the receive path between SUT and DN at SUT.	SUT sends Remote/Yellow Alarm. Y/N DN enters a Remote/ Yellow Alarm state. Y/N DN removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N
			3. Break the receive path between SUT and DN at DN.	Time measured: _____ 2. Y/N 2. SUT returns link to service within 15 + 5 secs. Y/N Time measured: _____ DN removes Remote/ Yellow Alarm state within 20-1000 msec after return to service. Y/N
			4. Reconnect the receive path between SUT and DN at DN.	Time measured: _____ 3. DN enter a Local/ Red Alarm state within 2.5 ± 0.5 seconds of loss of frame. Y/N Time measured: _____ DN sends remote/yellow Alarm. Y/N SUT enters a Remote/ Yellow Alarm state. Y/N SUT removes trunks from service 35-1000 msec after reception of Remote/Yellow. Y/N
		<b>Notes:</b>		

**Table E-2.8.1. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
D	<b>WWNDP</b>		1. Verify in that the switch under test supports Interswitch 7 and 10 digit inter-switch dialing. Note: This can be validated in either translations or documentation 2. SUT supports DSN user dialing [N-P or S- 1X-KXX-XXXX]; where: N is any digit 2-9 P is any digit 0-4 S is any digit 5-9 X is any digit 0-9 K is any digit 2-8	1. Switch supports 7 and 10 digit inter-switch Dialing. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 4.5		2. SUT supports DSN user dialing. Y/N
			<b>Notes:</b>	
	<b>Routing</b>  <b>Requirement:</b> TS, MFS, & EOS (Europe only)  Verify in software of the switch under test the following primary route and alternate route capacities		<b>TS &amp; MFS:</b> 1. Assign a direct route and nine alternate routes in the switch under test (each route with one trunk group) 2. Assign a route (direct or alternate) with a minimum of four trunk groups in the switch under test.	1. Switch allows assignment of direct route with nine alternate routes Y/N
<b>EOS:</b> 1. Assign a direct route and five alternate routes in the switch under test (each route with one trunk group) 2. Assign a route (direct or alternate) with a minimum of one trunk group per route and up to 96 members per trunk group in the switch under test.			2. Switch allows assignment of minimum of four trunk groups per route Y/N	
			1. Switch allows assignment of direct route with five alternate routes Y/N	
<b>Notes:</b>			2. Switch allows assignment of minimum of one trunk group per route and 96 members per trunk group. Y/N	

**Table E-2.8.1. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
F	<b>Trunk Groups</b>		1. Busy-out all trunks on the E1 PRI from the SUT maintenance terminal.	1. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 2.5.5& 2.5.6	2. Break the PRI span for 60 sec. then restore. Monitor the status from the DN maintenance terminal	2. After the link is restored busy-outs remain acknowledged. Y/N
	Provision an E1 PRI link between SUT and destination node (DN)		3. Repeat the procedure from the DN	3. The DN maintenance terminal immediately acknowledges a remote busy-out on all trunks applied from the SUT maintenance terminal. Y/N
			4. Busy-out one trunk. Idle the trunk on the E1 from the DN maintenance terminal Monitor the status from the ON maintenance terminal	After the link is restored busy-outs remain acknowledged. Y/N
			4. The SUT Maintenance Terminal immediately acknowledges a remote busy-out applied from the DN maintenance terminal	Y/N
			The SUT Maintenance Terminal immediately acknowledges an idle applied from the DN maintenance terminal.	Y/N
			5. Repeat with 2, 4, 8, 16, 24 trunks busied/idled	5. 2, 4, 8, 16, and 24 trunk busy-outs. Y/N
		6. Busy-out one trunk then idle on the E1 from the ON maintenance terminal	6. The DN Maintenance Terminal immediately acknowledges a remote busy-out applied from the SUT maintenance terminal. Y/N	
		7. Monitor the status from the ON maintenance terminal Repeat with 2, 4, 8, 16, 24 trunks busied /idled.	The DN Maintenance Terminal immediately acknowledges an idle applied from the SUT maintenance terminal. Y/N	
		<b>Notes:</b>		

**Table E-2.8.1. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)			Expected Result(s)			
G	<b>CAS to CCS Interworking</b>								
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.10	<b>Line-to trunk</b>						
	Configure SUT with an analog users and BRI instrument. Configure the Destination Node (DN) with analog and BRI instruments. Configure tandem node between SUT and DN with T1 SS7, T1 CAS, E1 CAS, T1 PRI and E1 PRI between each node.  Note. Speech may also be 3.1K-bearer capability.		<b>Origin</b>	<b>Route Digit</b>	<b>Bearer Capability</b>	<b>Termination</b>	<b>Route Digit</b>	<b>Bearer capability</b>	
			Analog	0/5	N/A	E1 PRI	N/A	Speech	
			Analog	1/6	N/A	E1 PRI	N/A	Speech	
			BRI	0/5	Speech	E1 PRI	N/A	Speech	
			BRI	1/6	Speech	E1 PRI	N/A	Speech	
			BRI	0/5	56K CMD	E1 PRI	N/A	56K CMD	
			BRI	0/5	64K CMD	E1 PRI	N/A	64K CMD	
			BRI	1/6	56K CMD	E1 PRI	N/A	56K CMD	
			BRI	1/6	64K CMD	E1 PRI	N/A	64K CMD	
			<b>Trunk-to-Line</b>						
			E1 PRI	0/5	Speech	Analog	N/A	N/A	
			E1 PRI	1/6	Speech	Analog	N/A	N/A	
			E1 PRI	N/A	Speech	ISDN BRI	N/A	Speech	
			E1 PRI	0/5	56K CMD	BRI	N/A	56K CMD	
			E1 PRI	0/5	64K CMD	BRI	N/A	64K CMD	
			E1 PRI	N/A	56K CMD	BRI	N/A	56K CMD	
			E1 PRI	N/A	64K CMD	BRI	N/A	64K CMD	
			<b>Trunk-to-Trunk</b>						
			E1 PRI	N/A	56/64K CMD	E1 CAS	1	N/A	
			E1 PRI	N/A	Speech	E1 CAS	0	N/A	
	E1 PRI	N/A	56/64K CMD	T1 CAS	1	N/A			
	E1 PRI	N/A	Speech	T1 CAS	0	N/A			
	<b>Notes:</b>								

**Table E-2.8.1. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Trunking (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)																							
H	<b>PCM-24/PCM-30</b>		1. Place a call from ON subscriber to DN subscriber and verify a-law to mu-law to conversion.  <b>Notes:</b>	Mu-law to a-law conversion via E1 PRI link to:																							
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 7.3		<table border="1"> <thead> <tr> <th></th> <th>T1 SS7</th> <th>T1 PRI</th> <th>T1 CAS</th> </tr> </thead> <tbody> <tr> <td><b>Analog</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>BRI</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>Digital</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>VoIP</b></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		T1 SS7	T1 PRI	T1 CAS	<b>Analog</b>				<b>BRI</b>				<b>Digital</b>				<b>VoIP</b>						
		T1 SS7		T1 PRI	T1 CAS																						
<b>Analog</b>																											
<b>BRI</b>																											
<b>Digital</b>																											
<b>VoIP</b>																											
Configure SUT as a tandem node with incoming (E1 CAS ) link and outgoing (T1 SS7, T1 PRI and T1 CAS) links between origination node and destination node..																											
I	<b>DID</b>		1. Place ROUTINE call from ON1 to P1. 2. Place ROUTINE call from ON2 to P2.  3. Place PRIORITY call from ON3 to P1.  <b>Notes:</b>	1. Call completes. <span style="float: right;">Y/N</span>																							
	<b>Requirement:</b> MFS & EOS (Europe only)	<b>Reference:</b> GSCR 2.3.2		2. Reroute to announcement, reorder tone or attendant. <span style="float: right;">Y/N</span>																							
	Configure the SUT to have a PBX1 connected to it with DID trunks. Configure 2 subscribers, P1 and P2 on the PBX. P2 has a restriction not to receive terminating calls. Configure ON with 3 subscribers ON1, ON2, & ON 3.			3. ON1 and P1 receive PNT. <span style="float: right;">Y/N</span> ON3-P1call completes. <span style="float: right;">Y/N</span>																							

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																																			
A	<b>MOS</b>	1. Place 2 calls between SUT subscriber and DN subscriber such that the calls traverse the E1 PRI link. Record the average MOS for each set of 10 calls.  <b>Notes:</b>	Average MOS: <table border="1" data-bbox="1430 269 1955 708"> <thead> <tr> <th>Origination</th> <th>Termination</th> <th>Ave MOS of 2 calls</th> </tr> </thead> <tbody> <tr><td>Analog</td><td>Analog</td><td></td></tr> <tr><td>Analog</td><td>BRI</td><td></td></tr> <tr><td>Analog</td><td>Digital</td><td></td></tr> <tr><td>Analog</td><td>VoIP</td><td></td></tr> <tr><td>BRI</td><td>Analog</td><td></td></tr> <tr><td>BRI</td><td>BRI</td><td></td></tr> <tr><td>BRI</td><td>Digital</td><td></td></tr> <tr><td>BRI</td><td>VoIP</td><td></td></tr> <tr><td>Digital</td><td>Analog</td><td></td></tr> <tr><td>Digital</td><td>BRI</td><td></td></tr> <tr><td>Digital</td><td>Digital</td><td></td></tr> <tr><td>Digital</td><td>VoIP</td><td></td></tr> <tr><td>VoIP</td><td>Analog</td><td></td></tr> <tr><td>VoIP</td><td>BRI</td><td></td></tr> <tr><td>VoIP</td><td>Digital</td><td></td></tr> <tr><td>VoIP</td><td>VoIP</td><td></td></tr> </tbody> </table>	Origination	Termination	Ave MOS of 2 calls	Analog	Analog		Analog	BRI		Analog	Digital		Analog	VoIP		BRI	Analog		BRI	BRI		BRI	Digital		BRI	VoIP		Digital	Analog		Digital	BRI		Digital	Digital		Digital	VoIP		VoIP	Analog		VoIP	BRI		VoIP	Digital		VoIP	VoIP	
	Origination		Termination	Ave MOS of 2 calls																																																		
	Analog		Analog																																																			
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VoIP	Digital																																																					
VoIP	VoIP																																																					
<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> CJCSI 6215.01B																																																					
Configure an E1 PRI between SUT and DN. Provision one subscriber of each type (analog & BRI). If digital and VoIP phones are supported by the SUT configure one each off of the SUT and DN..																																																						
B	<b>MLPP Precedence Parameters</b>	1. Verify E1 Setup Message contains the following Facility IE information:  2. Verify the Setup Message called party number format is [Y] (KXX) KXX-XXXX. Where, digits are: 0-3 for Y, 2-8 for K, and 0-9 for X.  <b>Notes:</b>	1. The SETUP message contains the following FACILITY Info Elements: (Note: Numbers are in Hexidecimal) Service Description: Octet: 91 Supplemental Services. Y/N OPERATION: Octet : 19 MLPP Callrequest Y/N Precedence Level Y/N LFB Condition Y/N NI Digits: 2 Octets Y/N MLPP Service Domain: 3 Octets Y/N  2. Format correct. Y/N																																																			
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)		<b>Reference:</b> GSCR Sect. 3.7																																																			
	Provision an E1 PRI link between SUT and destination node (DN)																																																					

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)												
C	<p><b>MLPP Preempt for Reuse (Answered)</b></p> <table border="1"> <tr> <td data-bbox="163 313 485 367"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td data-bbox="485 313 772 367"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON1 to DN1.</li> <li>2. Place a PRIORITY call from DN2 to ON2.</li> <li>3. Place an IMMEDIATE call from ON3 to DN3.</li>   <li>4. Place a FLASH call from DN1 to ON2.</li>   <li>5. Place a FLASH OVERRIDE call from ON1 to DN2.</li>   <li>6. Place a FLASH OVERRIDE call from DN3 to ON3.</li>   <li>7. Place a FLASH OVERRIDE call from ON2 to DN1.</li>   <li>8. Place all instruments on hook.</li> <li>9. Repeat for all phone types</li> </ol>	<ol style="list-style-type: none"> <li>1. Call completes. Y/N</li> <li>2. Call completes. Y/N</li> <li>3. SUT send disconnect message with cause value 8, Operational value of 1A (hex), and data value of 1. Y/N</li> <li>ON1-DN1 receive PNT. Y/N</li> <li>SUT sends setup message with precedence. Y/N</li> <li>DN3 Rings at precedence Y/N</li> <li>SUT receives precedence ringback. Y/N</li> <li>ROUTINE trunk reused. Y/N</li> <li>4. DN send disconnect message with cause value 8, Operational value of 1A (hex), and data value of 1. Y/N</li> <li>ON2-DN2 receive PNT. Y/N</li> <li>DN sends setup message with precedence. Y/N</li> <li>ON2 Rings at precedence. Y/N</li> <li>DN1 receives precedence ringback. Y/N</li> <li>PRIORITY trunk reused; ON2 line reused. Y/N</li> <li>5. SUT send disconnect message with cause value 8, Operational value of 1A (hex), data value of 1. Y/N</li> <li>ON3-DN3 receive PNT. Y/N</li> <li>SUT sends setup message with precedence. Y/N</li> <li>DN1 rings at precedence. Y/N</li> <li>ON1 receives precedence ringback. Y/N</li> <li>IMMEDIATE trunk reused. Y/N</li> <li>6. DN sends disconnect message with cause value 8, Operational value of 1A (hex), and data value of 1. Y/N</li> <li>ON2-DN1 receive PNT. Y/N</li> <li>DN sends setup message with precedence. Y/N</li> <li>ON3 Rings at precedence. Y/N</li> <li>DN3 receives precedence ringback. Y/N</li> <li>FLASH trunk reused. Y/N</li> <li>7. DN send disconnect message with cause 46 and Operational value of 1A (hex). Y/N</li> <li>ON2 receives BPA. Y/N</li> <li>8. Calls end. Y/N</li> <li>9.</li> </ol> <table border="1" data-bbox="1434 1097 1955 1325"> <thead> <tr> <th colspan="2">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td>Analog</td> <td></td> </tr> <tr> <td>BRI</td> <td></td> </tr> <tr> <td>Digital</td> <td></td> </tr> <tr> <td>VoIP</td> <td></td> </tr> </tbody> </table>	Preempt for Reuse (Answered)		Analog		BRI		Digital		VoIP	
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3													
Preempt for Reuse (Answered)															
Analog															
BRI															
Digital															
VoIP															
<p>Provision an E1 PRI link between ON and DN (SUT) . Configure three subscribers off of each (ON1-ON3, DN1-DN3). Busy out all but two trunks on the PRI.</p>	<p><b>Notes:</b></p>														

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)											
C o n t i n u e d	<b>MLPP Preempt for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from DN2 to ON2. 3. Place an IMMEDIATE call from ON3 to DN3.	1. Call in ringing state. Y/N 2. Call completes. Y/N 3. SUT send disconnect message with cause value 8, Operational value of 1A (hex), and data value of 1. Y/N ON1 receives PNT. Y/N SUT sends setup message with precedence. Y/N DN3 Rings at precedence Y/N SUT receives precedence ringback. Y/N ROUTINE trunk reused. Y/N											
	<table border="1" data-bbox="163 313 772 365"> <tr> <td data-bbox="163 313 499 365"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td data-bbox="499 313 772 365"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table> <p data-bbox="163 365 772 446">Configure an E1 PRI trunk between SUT (ON) and a Destination Node (DN). Busy out all but 2 trunks. Provision 3 subscribers on ON (ON1-ON3) and 3 on DN (DN1-DN3)</p>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3	4. Hang up DN2-ON2 call. Redial DN2-ON2 at PRIORITY; don't answer. 5. Place a FLASH call from DN1 to ON2.  6. Hang up ON3 to DN3. Redial at IMMEDIATE; don't answer. 7. Place a FLASH OVERRIDE call from ON1 to DN2.  8. Hang up DN1 to ON2. Redial at FLASH; don't answer. 9. Place a FLASH OVERRIDE call from DN3 to ON3.  10. Place a FLASH OVERRIDE call from ON2 to DN1.  11. Place all instruments on hook. 12. Repeat for all phone types	4. Call in ringing state. Y/N  5. DN send disconnect message with cause value 8, Operational value of 1A (hex), and data value of 1. Y/N DN2 receive PNT. Y/N DN sends setup message with precedence. Y/N ON2 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N PRIORITY trunk reused; ON2 line reused. Y/N 6. Call in ringing state. Y/N 7. SUT send disconnect message with cause value 8, Operational value of 1A (hex), and data value of 1. Y/N ON3 receives PNT. Y/N SUT sends setup message with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk reused. Y/N 8. Call in ringing state. Y/N 9. DN sends disconnect message with cause value 8, Operational value of 1A (hex), and data value of 1. Y/N DN1 receive PNT. Y/N DN sends setup message with precedence. Y/N ON3 Rings at precedence. Y/N DN3 receives precedence ringback. Y/N FLASH trunk reused. Y/N 10. DN sends disconnect message with cause value 46, Operational value of 1A (hex). Y/N ON2 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" data-bbox="1419 1193 1953 1323"> <tr> <th colspan="2" data-bbox="1419 1193 1953 1226">Preempt for Reuse (Answered)</th> </tr> <tr> <td data-bbox="1419 1226 1543 1258">Analog</td> <td data-bbox="1543 1226 1953 1258"></td> </tr> <tr> <td data-bbox="1419 1258 1543 1291">BRI</td> <td data-bbox="1543 1258 1953 1291"></td> </tr> <tr> <td data-bbox="1419 1291 1543 1323">Digital</td> <td data-bbox="1543 1291 1953 1323"></td> </tr> <tr> <td data-bbox="1419 1323 1543 1356">VoIP</td> <td data-bbox="1543 1323 1953 1356"></td> </tr> </table>	Preempt for Reuse (Answered)		Analog		BRI		Digital		VoIP
<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3													
Preempt for Reuse (Answered)														
Analog														
BRI														
Digital														
VoIP														
		<b>Notes:</b>												

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Answered)</b>	1. Place a ROUTINE call from ON1 to DN1. 2. Place a PRIORITY call from ON2 to DN1.	1. Call completes. Y/N 2. SUT send disconnect message with cause value 8, Operational value of 1A (hex), data value of 2. Y/N										
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3		ON1-DN1 receive PNT. Y/N SUT sends setup message with precedence. Y/N DN1 Rings at precedence. Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N								
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3											
	Same as previous.	3. Place an IMMEDIATE call from DN2 to ON2.  4. Place a FLASH call from ON1 to DN2.  6. Place a FLASH OVERRIDE call from DN1 to ON1.  7. Place a FLASH OVERRIDE call from ON2 to DN2. 8. Place FLASH OVERRIDE call from DN3 to ON3  9. Place all instruments on hook. 10. Repeat for all phone types.	3. DN send disconnect message with cause value 8 Operational value of 1A (hex), data value of 2. Y/N ON2-DN1 receive PNT. Y/N DN sends setup message with precedence. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N 4. SUT send disconnect message with cause value 8, Operational value of 1A (hex), data value of 2. Y/N DN2-ON2 receive PNT. Y/N SUT sends setup message with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N 6. DN sends disconnect message with cause value 8, Operational value of 1A (hex), data value of 2. Y/N ON1-DN2 receive PNT. Y/N DN sends setup message with precedence. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N 7. Call completes. Y/N 8. SUT sends disconnect message with cause 46 and Operational value of 1A (hex). Y/N DN3 receives BPA. Y/N 9. Calls end. Y/N 10.										
		<b>Notes:</b>	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;"></td> <td style="text-align: center;"><b>Preempt for Reuse (Answered)</b></td> </tr> <tr> <td><b>Analog</b></td> <td></td> </tr> <tr> <td><b>BRI</b></td> <td></td> </tr> <tr> <td><b>Digital</b></td> <td></td> </tr> <tr> <td><b>VoIP</b></td> <td></td> </tr> </table>		<b>Preempt for Reuse (Answered)</b>	<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
		<b>Preempt for Reuse (Answered)</b>											
	<b>Analog</b>												
	<b>BRI</b>												
	<b>Digital</b>												
	<b>VoIP</b>												

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)											
C c o n t i n u e d	<b>MLPP</b> <b>Preempt Not for Reuse (Unanswered)</b>	1. Place a ROUTINE call from ON1 to DN1; don't answer. 2. Place a PRIORITY call from ON2 to DN1.	1. Call in ringing state. Y/N 2. SUT send disconnect message with cause value 8. Y/N ON1 receives PNT. Y/N SUT sends setup message with precedence. Y/N DN1 Rings at precedence Y/N ON2 receives precedence ringback. Y/N ROUTINE trunk not reused. Y/N											
	<table border="1" data-bbox="170 310 772 358"> <tr> <td data-bbox="170 310 485 358"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td data-bbox="491 310 772 358"><b>Reference:</b> GSCR Sect. 3</td> </tr> </table> <p data-bbox="170 363 772 412">Same as previous.</p>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3	3. Hang up ON2 to DN1 call. Redial at PRIORITY; don't answer. 4. Place an IMMEDIATE call from DN2 to ON2.  5. Hang up DN2 to ON2. Redial at IMMEDIATE; don't answer. 6. Place a FLASH call from ON1 to DN2.  7. Hang up ON1 to DN2 call. Redial at FLASH; don't answer. 8. Place a FLASH OVERRIDE call from DN1 to ON1.  9. Place a FLASH OVERRIDE call from ON2 to DN2. 10. Place FLASH OVERRIDE call from DN3 to ON3  11. Place all instruments on hook. 12. Repeat for all phone types.	3. Call in ringing state. Y/N 4. DN send disconnect message with cause value 8, Operational value of 1A (hex), data value of 2. Y/N ON2-DN1 receive PNT. Y/N DN sends setup message with precedence. Y/N ON2 Rings at precedence. Y/N DN2 receives precedence ringback. Y/N PRIORITY trunk not reused. Y/N 5. Call in ringing state. Y/N 6. SUT send disconnect message with cause value 8, Operational value of 1A (hex), data value of 2. Y/N DN2 receives PNT. Y/N SUT sends setup message with precedence. Y/N DN2 Rings at precedence. Y/N ON1 receives precedence ringback. Y/N IMMEDIATE trunk not reused. Y/N 7. Call in ringing state. Y/N 8. DN sends disconnect message with cause value 8, Operational value of 1A (hex), data value of 2. Y/N ON1 receives PNT. Y/N DN sends setup message with precedence. Y/N ON1 Rings at precedence. Y/N DN1 receives precedence ringback. Y/N FLASH trunk not reused. Y/N 9. Call completes. Y/N 10. SUT sends disconnect message with cause 46 and Operational value of 1A (hex). Y/N DN3 receives BPA. Y/N 11. Calls end. Y/N 12. <table border="1" data-bbox="1421 1138 2005 1365"> <thead> <tr> <th data-bbox="1421 1138 1541 1170"></th> <th data-bbox="1547 1138 2005 1170">Preempt for Reuse (Answered)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1421 1175 1541 1208"><b>Analog</b></td> <td data-bbox="1547 1175 2005 1208"></td> </tr> <tr> <td data-bbox="1421 1213 1541 1245"><b>BRI</b></td> <td data-bbox="1547 1213 2005 1245"></td> </tr> <tr> <td data-bbox="1421 1250 1541 1282"><b>Digital</b></td> <td data-bbox="1547 1250 2005 1282"></td> </tr> <tr> <td data-bbox="1421 1287 1541 1320"><b>VoIP</b></td> <td data-bbox="1547 1287 2005 1320"></td> </tr> </tbody> </table>		Preempt for Reuse (Answered)	<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>
<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3													
	Preempt for Reuse (Answered)													
<b>Analog</b>														
<b>BRI</b>														
<b>Digital</b>														
<b>VoIP</b>														
		<b>Notes:</b>												

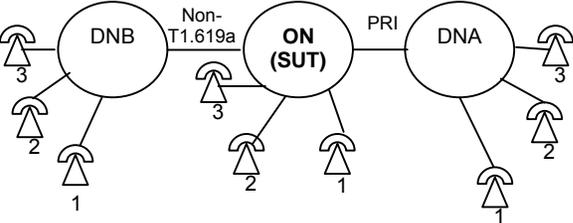
**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
D	<b>MLPP Trunk selection</b>	<b>Hunting:</b> 1. Place a ROUTINE data call between SUT and DN. 2. Place a PRIORITY data call between SUT and DN. 3. Place an IMMEDIATE voice call. Hang up all calls. 4. Place a ROUTINE data call 5. Place ROUTINE voice call 6. Place IMMEDIATE data call.	1. Call completes. Y/N 2. Call completes. Y/N 3. Routine data call preempted; PNT. Y/N 4. Call completes. Y/N 5. Call completes. Y/N 6. Data call preempted. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3	
	Configure an E1 PRI between SUT and Destination Node (DN). On the T1 SS7, classmark for voice and data, busy all but four trunks.		<b>Notes:</b>
E	<b>MLPP Method 1</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY. 5. Place a call from ON5 to DN5 at ROUTINE. 6. Place a call from ON6 to DN6 at PRIORITY. 7. Place a ROUTINE call from ON7 to DN7 at ROUTINE. 8. Hang up ON5 to DN5 call 9. Place a call from ON7 to DN7 at IMMEDIATE. 10. Place a call from ON5 to DN5 at IMMEDIATE.  11. Place a call from ON1 to DN1 at FLASH  12. Place a call from ON2 to DN2 at FLASH OVERRIDE.  13. Place a call from ON5 to DN5 at IMMEDIATE.  14. Place a call from ON3 to DN3 at FLASH.  15. Place a call from ON4 to DN4 at IMMEDIATE.  16. Place a call from ON6 to DN6 at IMMEDIATE	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. Call completes over alternate route 1. Y/N 5. Call completes over alternate route 2. Y/N 6. Call completes over alternate route 2. Y/N 7. Call receives T120 busy tone. Y/N 8. Trunk is idled on alternate route 2. Y/N 9. Call completes over alternate route 2. Y/N 10. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N 11. ON2 and DN2 receive preemption notification. Y/N Call completes over direct route. Y/N 12. ON5 and DN5 receive preemption notification. Y/N Call completes over direct route. Y/N 13. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N 14. ON4 and DN4 receive preemption notification. Y/N Call completes over alternate route 1. Y/N 15. ON6 and DN6 receive preemption notification. Y/N Call completes over alternate route 2. Y/N 16. ON6 receives a BPA Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.1	
	Configure an E1 PRI between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes. Provision 7 subscribers off of each node (ON1-ON7, DN1-DN7)		<b>Notes:</b>

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
F	<b>MLPP Method 2</b>	1. Place a call from ON to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N		
	<table border="1"> <tr> <td data-bbox="170 318 485 363"><b>Requirement:</b> TS &amp; MFS (Europe only)</td> <td data-bbox="491 318 772 363"><b>Reference:</b> GSCR Sect. 3.2.3.1.2.2</td> </tr> </table>	<b>Requirement:</b> TS & MFS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2	5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.	5. Call completes over alternate route 1. Y/N 6. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N
	<b>Requirement:</b> TS & MFS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3.1.2.2			
	Configure an E1 PRI between SUT and Destination Node (DN). On the E1 PRI, busy all but four trunks. Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.	7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.	7. Call completes over alternate route 2. Y/N 8. Call completes over alternate route 2. Y/N 9. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 2. Y/N		
	10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.	10. ON3 receives a BPA. Y/N 11. Call receives T60 busy tone. Y/N			
G	<b>MLPP Precedence Call Diversion</b>	1. Place a call from ON1 to DN1 at ROUTINE. 2. Place a call from ON2 to DN2 at PRIORITY. 3. Place a call from ON3 to DN3 at ROUTINE. 4. Place a call from ON4 to DN4 at PRIORITY.	1. Call completes over direct route. Y/N 2. Call completes over direct route. Y/N 3. Call completes over alternate route 1. Y/N 4. ON1 and DN1 receive preemption notification. Y/N Call completes over direct route. Y/N		
	<table border="1"> <tr> <td data-bbox="170 794 485 839"><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</td> <td data-bbox="491 794 772 839"><b>Reference:</b> GSCR Sect. 3.2.3</td> </tr> </table>	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3	5. Place a call from ON5 to DN5 at PRIORITY. 6. Place a call from ON6 to DN6 at PRIORITY.	5. Call completes over alternate route 1. Y/N 6. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 1. Y/N
	<b>Requirement:</b> TS, MFS, & EOS (Europe only)	<b>Reference:</b> GSCR Sect. 3.2.3			
	Configure an E1 PRI between SUT and Destination Node (DN). Configure the switch under test with a direct route and two alternate routes. Busy all but two trunks on each of the routes.	7. Place a call from ON1 to DN1 at PRIORITY. 8. Place a call from ON3 to DN3 at ROUTINE. 9. Place a call from ON7 to DN7 at PRIORITY.	7. Call completes over alternate route 2. Y/N 8. Call completes over alternate route 2. Y/N 9. ON3 and DN3 receive preemption notification. Y/N Call completes over alternate route 2. Y/N		
	10. Place a call from ON3 to DN3 at PRIORITY. 11. Place a ROUTINE call from ON3 to DN3 at ROUTINE.	10. ON3 receives a BPA. Y/N 11. Call receives T60 busy tone. Y/N			
		<b>Notes:</b>			

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)													
H	<p><b>MLPP</b> <b>ANSI T1.619a and Non-T1.619a Interaction</b></p> <p><b>Requirement:</b> TS, MFS, &amp; EOS (Europe only)</p> <p><b>Reference:</b> GSCR Sect. 3.7.6</p> <p>Configure an E1 PRI between ON (SUT) and DN (DNA). Configure a non-T1.619a link between ON and DNB. Busy all but one trunk on both links. Provision 3 subscribers off of each node. Assign ON1, DNA1, and DNB1 with a Service Domain of 000000. Provision ON2, DNA2 and DNB2 with service domain FFFFFFF in hexadecimal. (16777215 in Decimal). Provision ON3, DNA3 and DNB3 with no service domain. Provision the SUT &amp; DNs to have service domain 0 as the default. Use SS7 protocol analyzer to monitor the T1 SS7 messages on the signaling link.</p>	<ol style="list-style-type: none"> <li>Verify SUT is capable of domain 16777215.</li> <li>Verify like service domains interaction:               <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA1. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON2 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA1. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from DNA3 to ON3. Hang up.</li> </ol> </li> <li>Verify unlike domains interaction:               <ol style="list-style-type: none"> <li>Place ROUTINE call from ON1 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA2. Hang up.</li> <li>Place ROUTINE call from ON1 to DNA3. Hang up.</li> <li>Place FLASH OVERRIDE call from ON1 to DNA3. Hang up.</li> <li>Place ROUTINE call from ON3 to DNA2. Hang up.</li> <li>Place FLASH OVERRIDE call from ON3 to DNA2. Hang up.</li> </ol> </li> <li>Service domain connections:               <ol style="list-style-type: none"> <li>Place a ROUTINE call from ON2 to ON1.</li> <li>Place a PRIORITY call from DNA1 to ON1. Hang up.</li> <li>Place a ROUTINE call from DNB1 to DNA1.</li> <li>Place a FLASH call from ON1 to DNA1. Hang up.</li> <li>Place a ROUTINE call from DNB2 to ON1.</li> <li>Place an IMMEDIATE call from DNA1 to ON1. Hang up.</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>	<ol style="list-style-type: none"> <li>SUT capable of domain 16777215. Y/N</li> <li>Like domains:               <ol style="list-style-type: none"> <li>Call completes. Y/N</li> </ol> </li> <li>Unlike domains:               <ol style="list-style-type: none"> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call completes. Y/N</li> <li>Call does not complete; BPA provided. Y/N</li> </ol> </li> <li>Service Domain connections:               <ol style="list-style-type: none"> <li>Call completes; connection domain is FFFFFFF. Y/N</li> <li>DN1 gets BPA. Y/N</li> <li>Call completes; connection domain is 0. Y/N</li> <li>Call preempts; DNB1 to DNA1 link. Y/N</li> <li>Call completes. Domain is 0. Y/N</li> <li>Call preempts DNB2 to ON1 call. Y/N</li> </ol> </li> <li>Repeat for all phone types.</li> </ol>													
	 <p>The diagram illustrates a network configuration with three nodes: DNB (Digital Network Bus), ON (SUT) (On-Net Switching Terminal), and DNA (Digital Network Access). DNB and ON are connected via a Non-T1.619a link, while ON and DNA are connected via a PRI (Primary Rate Interface) link. Each node is represented by a circle with three trunks extending from it, each trunk ending in a phone icon. The trunks for DNB are labeled 1, 2, and 3. The trunks for ON are labeled 1, 2, and 3. The trunks for DNA are labeled 1, 2, and 3.</p>	<table border="1"> <thead> <tr> <th data-bbox="1430 829 1570 878">Phone Type</th> <th data-bbox="1570 829 1812 878">Non T1.619a Link</th> <th data-bbox="1812 829 1988 878">Interaction Correct</th> </tr> </thead> <tbody> <tr> <td data-bbox="1430 878 1570 979">Analog BRI Digital VoIP</td> <td data-bbox="1570 878 1812 979">T1 CAS</td> <td data-bbox="1812 878 1988 979">Y/N Y/N Y/N Y/N</td> </tr> <tr> <td data-bbox="1430 979 1570 1079">Analog BRI Digital VoIP</td> <td data-bbox="1570 979 1812 1079">E1 CAS</td> <td data-bbox="1812 979 1988 1079">Y/N Y/N Y/N Y/N</td> </tr> <tr> <td data-bbox="1430 1079 1570 1180">Analog BRI Digital VoIP</td> <td data-bbox="1570 1079 1812 1180">T1 PRI (non-T1.619a)</td> <td data-bbox="1812 1079 1988 1180">Y/N Y/N Y/N Y/N</td> </tr> <tr> <td data-bbox="1430 1180 1570 1281">Analog BRI Digital VoIP</td> <td data-bbox="1570 1180 1812 1281">E1 PRI (non-Q.955.3)</td> <td data-bbox="1812 1180 1988 1281">Y/N Y/N Y/N Y/N</td> </tr> </tbody> </table> <p><b>Notes:</b></p>	Phone Type	Non T1.619a Link	Interaction Correct	Analog BRI Digital VoIP	T1 CAS	Y/N Y/N Y/N Y/N	Analog BRI Digital VoIP	E1 CAS	Y/N Y/N Y/N Y/N	Analog BRI Digital VoIP	T1 PRI (non-T1.619a)	Y/N Y/N Y/N Y/N	Analog BRI Digital VoIP	E1 PRI (non-Q.955.3)
Phone Type	Non T1.619a Link	Interaction Correct														
Analog BRI Digital VoIP	T1 CAS	Y/N Y/N Y/N Y/N														
Analog BRI Digital VoIP	E1 CAS	Y/N Y/N Y/N Y/N														
Analog BRI Digital VoIP	T1 PRI (non-T1.619a)	Y/N Y/N Y/N Y/N														
Analog BRI Digital VoIP	E1 PRI (non-Q.955.3)	Y/N Y/N Y/N Y/N														

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																																												
I	<b>MLPP Precedence Call Waiting</b>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:                             <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accepts waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook</li> </ol> </li> <li>2. Busy with equal precedence:                             <ol style="list-style-type: none"> <li>a. Place a PRIORITY call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. DN1 accept waiting ON2 call.</li> <li>d. DN1 switch back to ON1 call.</li> <li>e. Place all instruments on hook.</li> </ol> </li> <li>3. Busy with lower precedence:                             <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1. Place ON1 on hook.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1. Place ON2 on hook.</li> <li>d. Place a FLASH call from ON2 to DN1. Place ON1 on hook.</li> <li>e. Place a FLASH OVERRIDE call from ON1 to DN1. Place all instruments on hook.</li> </ol> </li> <li>4. No answer:                             <ol style="list-style-type: none"> <li>a. Place an IMMEDIATE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Don't answer ON2 call.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Busy with higher precedence:                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>2. Busy with equal precedence.                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. ON1 to DN1 call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>3. Busy with lower precedence.                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 doesn't receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>    Call completes and preempted ROUTINE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>    Call complete and preempted PRIORITY call</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>    Call complete and preempted IMMEDIATE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. DN1 does not receive precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>    Call complete and preempted FLASH call</td><td style="text-align: right;">Y/N</td></tr> </table> </li> <li>4. No answer:                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. DN1 receives precedence call waiting tone.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. ON2 call diverts to alternate DN# within 15-45 sec.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 to DN1 call completes.	Y/N	d. ON1 to DN1 call completes.	Y/N	e. Calls end.	Y/N	a. Call completes.	Y/N	b. DN1 doesn't receive precedence call waiting tone.	Y/N	Call completes and preempted ROUTINE call.	Y/N	c. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted PRIORITY call	Y/N	d. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted IMMEDIATE call.	Y/N	e. DN1 does not receive precedence call waiting tone.	Y/N	Call complete and preempted FLASH call	Y/N	a. Call completes.	Y/N	b. DN1 receives precedence call waiting tone.	Y/N	c. ON2 call diverts to alternate DN# within 15-45 sec.	Y/N
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<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.1																																														
J	<b>MLPP Call Forwarding</b>	<ol style="list-style-type: none"> <li>1. Call forwarding busy higher incoming precedence.                             <ol style="list-style-type: none"> <li>a. Place a ROUTINE call from ON1 to DN1.</li> <li>b. Place a PRIORITY call from ON2 to DN1.</li> <li>c. Place an IMMEDIATE call from ON1 to DN1.</li> <li>d. Place a FLASH call from ON2 to DN1.</li> <li>e. Place a FLASH OVERRIDE call from ONA to DNA.</li> <li>f. Place all instruments on hook.</li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. Call forward busy higher incoming precedence.                             <table border="0" style="width: 100%;"> <tr><td style="width: 80%;">a. Call completes.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>b. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>    Call complete and preempted ROUTINE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>c. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>    Call complete and preempted PRIORITY call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>d. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>    Call complete and preempted IMMEDIATE call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>e. Call Forward Busy not invoked.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>    Call complete and preempted FLASH call.</td><td style="text-align: right;">Y/N</td></tr> <tr><td>f. Calls end.</td><td style="text-align: right;">Y/N</td></tr> </table> </li> </ol>	a. Call completes.	Y/N	b. Call Forward Busy not invoked.	Y/N	Call complete and preempted ROUTINE call.	Y/N	c. Call Forward Busy not invoked.	Y/N	Call complete and preempted PRIORITY call.	Y/N	d. Call Forward Busy not invoked.	Y/N	Call complete and preempted IMMEDIATE call.	Y/N	e. Call Forward Busy not invoked.	Y/N	Call complete and preempted FLASH call.	Y/N	f. Calls end.	Y/N																								
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<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>Requirement:</b> Conditional</td> <td style="width: 50%;"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table> <p>Configure an E1 PRI between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the SUT (DN1, DN2). Provision call forwarding: DN1 call forward to DN2.</p>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	<b>Notes:</b>																																												
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**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
J C o n t i n u e d	<b>MLPP</b> <b>Call Forwarding (continued)</b>	2. Call forwarding busy equal or lower precedence. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN1. c. Answer DN2. d. Place all instruments on hook.	2. Call forward busy equal or lower precedence. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N		
	<table border="1"> <tr> <td data-bbox="170 318 485 370"><b>Requirement:</b> Conditional</td> <td data-bbox="491 318 772 370"><b>Reference:</b> GSCR Sect. 3.8.2</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2	3. Call forwarding busy non-preemptable. a. Place a ROUTINE call from ON1 to DN3 b. Place a PRIORITY call from ON2 to DN3. c. Answer DN2. d. Place all instruments on hook.	3. Call forward non-preemptable. a. Call completes. Y/N b. Call forwards to DN2. Y/N c. ON2 to DN2 call completes. Y/N d. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2			
Configure an E1 PRI between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.	e. Place a ROUTINE call from ON1 to DN3. f. Place a ROUTINE call from ON2 to DN3. g. Answer DNB. h. Place all instruments on hook. i. Place a PRIORITY call from ON1 to DN3. j. Place a PRIORITY call from ON2 to DN3. k. Answer DN2. l. Place all instruments on hook. m. Place a PRIORITY call from ON1 to DN3. n. Place a ROUTINE call from ON2 to DN3. o. Answer DN2. p. Place all instruments on hook. 4. Call forwarding busy precedence level preserved. a. Place a PRIORITY call from ON1 to DN1. b. Place a ROUTINE call from ON2 to DN2. c. Place a PRIORITY call from ON3 to DN1.  d. Place all instruments on hook. e. Place a PRIORITY call from ON1 to DN1. f. Place a PRIORITY call from ON2 to DN1. g. Allow call to ring-no-answer on DN2. h. Answer attendant console. i. Place all instruments on hook.	e. Call completes. Y/N f. Call forwards to DN2. Y/N g. ON2 to DN2 call completes. Y/N h. Call ends. Y/N i. Call completes. Y/N j. Call forwards to DN2. Y/N k. ON2 to DN2 call completes. Y/N l. Call ends. Y/N m. Call completes. Y/N n. Call forwards to DN2. Y/N o. ON2 to DN2 call completes. Y/N p. Call ends. Y/N 4. Call forward Precedence level preserved. a. Call completes. Y/N b. Call completes. Y/N c. Call forwards to DN2. Y/N ON3 receives precedence ring-back Y/N ON2 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing. Y/N Call complete and preempted ROUTINE call. Y/N d. Calls end. Y/N e. Call completes. Y/N f. Call forwards to DN2. Y/N g. Call routes to attendant console. Y/N h. ON2 to attendant console call completes. Y/N i. Calls end. Y/N			
<b>Notes:</b>					

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
J C o n t i n u e d	<b>MLPP Call Forwarding (continued)</b>		5. Call forwarding –no reply at called station. a. Place a ROUTINE call from ON1 to DN1 and allow call to ring-no-answer on DN1. b. Answer DN. c. Place all instruments on hook. d. Place a PRIORITY call from ON1 to DN2. e. Place an IMMEDIATE call from ON2 to DN1 and allow call to ring-no-answer on DN1. f. Place all instruments on hook. g. Place a PRIORITY call from ON1 to DN1 and allow call to ring-no-answer on DN1. h. Allow call to ring-no-answer on DN2. i. Answer attendant console. j. Place all instruments on hook. Notes:	5. Call forwarding –no reply at called station. a. Call forwards to DN2. Y/N b. ON1 to DN2 call completes. Y/N c. Call ends. Y/N d. Call completes. Y/N e. Call forwards to DN2. Y/N ON2 receives precedence ring-back. Y/N ON1 receives preempt tone. Y/N DN2 receives preempt tone. Y/N DN2 sounds precedence ringing Y/N Call complete and preempted PRIORITY call Y/N f. Call ends. Y/N g. Call forwards to DN2. Y/N h. Call routes to attendant console. Y/N i. ON1 to attendant console call completes. Y/N J. Calls end. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.2		
	Configure an E1 PRI between Origination Node (ON) and SUT. Two instruments are required on the Originating Node (ON1, ON2). Three instruments are required on the SUT (DN1, DN2, DN3). Provision call forwarding: DN1 call forward to DN2; make DN3 non-preemptable with call forward to DN2.			
K	<b>MLPP Call Transfer</b>		1. Call transfer (normal) interaction. a. Place a PRIORITY call from ON1 to DN1. b. DNA normal call transfers ON1 to DN2. c. Answer DN2. DN1 Hangs up d. Place a ROUTINE call from ON2 to DN2. e. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. g. Place ON2 on hook. h. Place an IMMEDIATE call from ON2 to DN2. i. Place all instruments on hook. j. Place a PRIORITY call from ON1 to DN1. k. DNA normal call transfers ON1 to DN2. l. DNA hangs up before DN2 answers. m. Answer DN2. n. Place ON2 on hook. o. Place a PRIORITY call from ON2 to DN2. p. Place ON2 on hook. q. Place an IMMEDIATE call from ON2 to DN2. r. Place all instruments on hook. Notes:	1. Call transfer (normal) interaction. a. Call completes. Y/N b. Normal transfer completes. Y/N c. ON1 to DN2 call completes. Y/N d. ON2 receives standard busy tone. Y/N e. Call ends. Y/N f. ON2 receives a BPA Y/N g. Call ends. Y/N h. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N i. Call ends. Y/N j. Call completes. Y/N k. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N l. ON1 receives a precedence ringback. Y/N m. ON1 to DN2 call completes. Y/N n. ON2 receives standard busy tone. Y/N o. ON2 receives a BPA Y/N p. ON1 and DN2 receive preempt notification. Y/N q. Call completes and preempts PRIORITY call. Y/N r. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		
	Configure an E1 PRI between Origination Node (ON) and SUT Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal call transfer.			

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram		Test Procedure(s)	Expected Result(s)
K C o n t i n u e d	<b>MLPP Call Transfer</b>		2. Call transfer (explicit) interaction. a. Place a PRIORITY call from DN1 to ON1. b. Place ON1 on hold. c. Call transfer from DN1 to DN2. d. Answer DN2. DN1 Hangs up e. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. f. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. g. Place an IMMEDIATE call from ON2 to DN2.  h. Place all instruments on hook. i. Place a PRIORITY call from DN1 to ON1. j. DNA call transfers ON1 to DN2. DNA hangs up before DN2 answers.  k. Answer DN2. l. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. m. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. n. Place an IMMEDIATE call from ON2 to DN2.  o. Place all instruments on hook.	2. Call transfer (explicit) interaction. a. Call completes. Y/N b. ON1 on hold. Y/N c. Explicit transfer completes. Y/N d. ON1 to DN2 call completes. Y/N e. ON2 receives standard busy tone. Y/N  f. ON2 receives a BPA Y/N  g. ON1 and DN2 receive preempt notification Y/N Call complete and preempted PRIORITY call. Y/N h. Call ends. Y/N i. Call completes. Y/N j. DN2 initially rings @ ROUTINE then rings @a precedence cadence after DN1 hangs up. Y/N ON1 receives a precedence ringback. Y/N k. ON1 to DN2 call completes. Y/N l. ON2 receives standard busy tone. Y/N  m. ON2 receives a BPA Y/N  n. ON1 and DN2 receive preempt notification. Y/N Call completes and preempts PRIORITY call. Y/N o. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.3		
L	<b>MLPP Call Hold</b>		1. Place a ROUTINE call from ON1 to DN1. 2. DNA place ON1 on hold and DN1 go on hook. 3. DNA goes off hook and take ON1 off hold. 4. Place all instruments on hook. 5. Place a ROUTINE call from ON1 to DN1. 6. DNA places ON1 on hold. 7. Place a PRIORITY call from ON2 to ON1.  8. Place all instruments on hook. 9. Place a ROUTINE call from ON1 to DN1. 10. DN1 hook flashes and places ON1 on hold.	1. Call completes. Y/N 2. ON1 on hold. Y/N 3. ON1 to DN1 call completes. Y/N 4. Call ends. Y/N 5. Call completes. Y/N 6. ON1 on hold. Y/N 7. ON1 receives preemption notification Y/N DN1 receives PNT only if DN1 attempts to retrieve ON1 while ON1 is receiving PNT. Y/N Call complete and preempted ON1 held call Y/N 8. Call ends. Y/N 9. Call completes. Y/N 10. ON1 on hold. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4		

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
L C o n t i n u e d	<b>MLPP</b> <b>Call Hold (continued)</b>	11. Place a ROUTINE call from DN1 to ON2. 12. Place a PRIORITY call from DN2 to DN1.	11. Call completes. Y/N 12. DN1, ON1 and ON2 receive PNT. Y/N DN2 receives precedence ringback Y/N DN2 to DNA PRIORITY call completed Y/N		
	<table border="1"> <tr> <td data-bbox="170 315 485 358"><b>Requirement:</b> Conditional</td> <td data-bbox="491 315 772 358"><b>Reference:</b> GSCR Sect. 3.8.4</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4	13. Place all instruments on hook.	13. Call ends. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.4			
	Configure an E1 PRI between SUT and Destination Node (DN).	14. Place a ROUTINE call from ON1 to DN1. 15. DNA hook flashes and places ON1 on hold 16. Place a ROUTINE call from DN1 to DN2. 17. Place a PRIORITY call from DN3 to DN1.	14. Call completes. Y/N 15. ON1 on hold. Y/N 16. Call completes. Y/N 17. DN1, ON1 and DN2 receive PNT. Y/N DN3 receives precedence ringback. Y/N DN1 hangs up & rings at a precedence cadence. Y/N DN3 to DNA PRIORITY call completed. Y/N		
	18. Place all instruments on hook.  <b>Notes:</b>	18. Call ends. Y/N			
M	<b>MLPP</b> <b>Three-way Calling (TWC)</b>	1. TWC, Precedence Level Preserved Each Call.	1. TWC, Precedence Level Preserved Each Call Y/N a. Call completes. Y/N		
	<table border="1"> <tr> <td data-bbox="170 737 485 781"><b>Requirement:</b> Conditional</td> <td data-bbox="491 737 772 781"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	a. Place a ROUTINE call from ON1 to DN1. b. DNA does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2.	b. TWC complete between ON1, DN1, and DN2. Y/N
	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
	Configure an E1 PRI between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.	c. Place a ROUTINE call from ON2 to DN2. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place ON2 on hook. e. Place an IMMEDIATE call from ON2 to DN2.  f. Place all calls on hook. g. Place a ROUTINE call from ON1 to DN1. h. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2. i. Place a PRIORITY call from ON2 to DN1. Place ON2 on hook j. Place an IMMEDIATE call from ON2 to DN1.	c. ON2 receives standard busy tone. Y/N  d. ON2 receives BPA. Y/N  e. Call completed and preempts PRIORITY call Y/N DN2 receives preempt notification. Y/N ON1 and DN1 call remains connected Y/N f. Calls end. Y/N g. Call completes. Y/N h. TWC complete between ON1, DN1, and DN2. Y/N  i. ON2 receives a BPA. Y/N  j. Call completed and preempts DNA1. Y/N DN1 receives preempt notification. Y/N ON1 and DN2 call remains connected and receive a short 2 second preempt tone Y/N ON2 to DN1 call completed Y/N k. Calls end. Y/N		
	k. Place all calls on hook  <b>Notes:</b>				

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)	
M C o n t i n u e d	<b>MLPP</b> <b>Three-way Calling (TWC) (continued)</b>	l. Place a ROUTINE call from ON1 to DN1. m. DN1 does a hook flash and calls DN2 at PRIORITY, then establishes a three party service call with ON1 and DN2.	l. Call completes. Y/N m. TWC complete between ON1, DN1, and DN2. Y/N	
	<table border="1" data-bbox="163 313 772 365"> <tr> <td data-bbox="163 313 485 365"><b>Requirement:</b> Conditional</td> <td data-bbox="485 313 772 365"><b>Reference:</b> GSCR Sect. 3.8.5</td> </tr> </table> <p data-bbox="163 365 772 1177">Configure an e1 PRI between SUT and Destination Node (DN). Two instruments are required on the Originating Node (ON1, ON2). Two instruments are required on the Destination Node (DN1, DN2). Provision DN1 with normal and explicit call transfer. Provision the Destination Node with alternate party diversion to the attendant console.</p>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5	n. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. o. Place a PRIORITY call from ON2 to ON1. Place ON2 on hook. p. Place a PRIORITY call from ON2 to DN2. Place all calls on hook  2. TWC, Precedence Level Preserved, Split Operation a. Place a ROUTINE call from ON1 to DN1. b. DN1 does a hook flash and calls DN2 at PRIORITY c. Place a ROUTINE call from ON2 to ON1. Place ON2 on hook. d. Place a PRIORITY call from ON2 to DN2. Place all calls on hook. e. Place a PRIORITY call from ON2 to DN1. Place all calls on hook f. Place a ROUTINE call from ON1 to DN1. g. DN1 does a hook flash and calls DN2 at PRIORITY.  h. Place a PRIORITY call from ON2 to ON1. Place all calls on hook.  i. Place a ROUTINE call from ON1 to DN1. j. DN1 does a hook flash and calls DN2 at PRIORITY.  k. Place an IMMEDIATE call from ON2 to DN2.  l. Place all calls on hook.
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.5			
<b>Notes:</b>				

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)										
N	<b>MLPP Call Pick-Up</b>	<ol style="list-style-type: none"> <li>1. Place a ROUTINE call from ON1 to DN1. Don't answer.</li> <li>2. Have DN2 pick-up call.</li> <li>3. Hang up calls.</li> <li>4. Place ROUTINE call from ON1 to DN1; don't answer.</li> <li>5. Place PRORITY call from ON2 to DN2; don't answer.</li> <li>6. Have DN3 do call pick-up.</li> <li>7. Hang up calls.</li> <li>8. Place IMMEDIATE call from ON1 to DN1; don't answer.</li> <li>9. Place IMMEDIATE call from ON2 to DN2; don't answer.</li> <li>10. Have DN3 do call-pick up.</li> <li>11. Hang up all calls.</li> <li>12. Place FLASH call from ON1 to DN1. Answer.</li> <li>13. Place FLASH OVERRIDE call from DN2 to ON2.</li> <li>14. PLACE FLASH OVERRIDE call from ON3 to DN2. Don't answer.</li> <li>15. Attempt to call pick -up ON2 via DN3.</li> <li>16. DN2 Answer ON2 call.</li> <li>17. Hang up all calls.</li> <li>18. Repeat for other phone types.</li> </ol>	<ol style="list-style-type: none"> <li>1. Call rings. Y/N</li> <li>2. DN2 able to pick-up DN1 call. Y/N</li> <li>3. Calls end. Y/N</li> <li>4. Call completes; DN1 rings. Y/N</li> <li>5. Call completes; DN2 rings at precedence. Y/N</li> <li>6. DN3 call pick-up picks up ON2. Y/N</li> <li>7. Calls end. Y/N</li> <li>8. Call competes and precedence rings at DN1. Y/N</li> <li>9. Call completes and precedence rings at DN2. Y/N</li> <li>10. Call pick-up picks up ON1 (longest). Y/N</li> <li>11. Calls end. Y/N</li> <li>12. Call completes. Y/N</li> <li>13. Call completes. Y/N</li> <li>14. PNT sent to ON1-DN1. Y/N</li> <li>15. Call pick-up unsuccessful. Y/N</li> <li>16. ON2-DN2 call completes. Y/N</li> <li>17. Calls end, Y/N</li> <li>18. Y/N</li> </ol> <table border="1" data-bbox="1430 708 1955 1130"> <thead> <tr> <th colspan="2" data-bbox="1430 708 1955 735">Call Pick-Up</th> </tr> </thead> <tbody> <tr> <td data-bbox="1430 735 1545 833"><b>Analog</b></td> <td data-bbox="1545 735 1955 833"></td> </tr> <tr> <td data-bbox="1430 833 1545 930"><b>BRI</b></td> <td data-bbox="1545 833 1955 930"></td> </tr> <tr> <td data-bbox="1430 930 1545 1027"><b>Digital</b></td> <td data-bbox="1545 930 1955 1027"></td> </tr> <tr> <td data-bbox="1430 1027 1545 1125"><b>VoIP</b></td> <td data-bbox="1545 1027 1955 1125"></td> </tr> </tbody> </table>	Call Pick-Up		<b>Analog</b>		<b>BRI</b>		<b>Digital</b>		<b>VoIP</b>	
	Call Pick-Up												
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<table border="1" data-bbox="170 313 772 367"> <tr> <td data-bbox="170 313 485 367"><b>Requirement:</b> Conditional</td> <td data-bbox="485 313 772 367"><b>Reference:</b> GSCR Sect. 3.8.6</td> </tr> </table>	<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6	<p><b>Notes:</b></p>										
<b>Requirement:</b> Conditional	<b>Reference:</b> GSCR Sect. 3.8.6												

**Table E-2.8.2. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Voice (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																												
C	<b>Secure Calls</b>	Place 2 ROUTINE secure voice calls from SUT to DN via an E1 PRI trunk using STU-III, STE, and SWT. Record the MOS and connection rate.	<table border="1"> <thead> <tr> <th></th> <th>STU</th> <th>STE</th> <th>SWT</th> </tr> </thead> <tbody> <tr> <td><b>STU call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STU call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>STE call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 1</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> <tr> <td><b>SWT call 2</b></td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> <td>MOS: Rate:</td> </tr> </tbody> </table>		STU	STE	SWT	<b>STU call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:	<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:
				STU	STE	SWT																									
	<b>STU call 1</b>			MOS: Rate:	MOS: Rate:	MOS: Rate:																									
<b>STU call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>STE call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>STE call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>SWT call 1</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>SWT call 2</b>	MOS: Rate:	MOS: Rate:	MOS: Rate:																												
<b>Requirement:</b> MFS, EOS, & SMEO	<b>Reference:</b> CJCSI 6215.01B																														
Configure an E1 PRI between SUT and DN. Configure a STU-III and STE off of both SUT and DN. Provision SWTs off of each if available.																															
<b>Notes:</b>																															

**Table E-2.8.3. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Facsimile**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)																		
A	<b>Facsimile</b>	Place 5 facsimile calls between the two facsimiles. Send the IEEE167A-1995 test sheet fro quality measurement.	<table border="1"> <thead> <tr> <th>Call #</th> <th>Completed</th> <th>IEEE167A-1995</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Y/N</td> <td></td> </tr> <tr> <td>2</td> <td>Y/N</td> <td></td> </tr> <tr> <td>3</td> <td>Y/N</td> <td></td> </tr> <tr> <td>4</td> <td>Y/N</td> <td></td> </tr> <tr> <td>5</td> <td>Y/N</td> <td></td> </tr> </tbody> </table>	Call #	Completed	IEEE167A-1995	1	Y/N		2	Y/N		3	Y/N		4	Y/N		5	Y/N	
	Call #			Completed	IEEE167A-1995																
	1			Y/N																	
2	Y/N																				
3	Y/N																				
4	Y/N																				
5	Y/N																				
<b>Requirement:</b> Conditional	<b>Reference:</b> JTA																				
Configure an E1 PRI link between SUT and DN. Provision an analog fax off of each node.																					
<b>Notes:</b>																					

**Table E-2.8.4. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Data**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)		
A	<b>56K Switched Data</b>	1. Using the Sunset BRI Test set place a synchronous switched 56K data calls from SUT to DN over the E1 PRI link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____		
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 2.3.3</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3
	<b>Requirement:</b> TS, MFS, & EOS			<b>Reference:</b> GSCR Sect. 2.3.3	
Provision an E1 PRI link between SUT and DN.					
B	<b>64K Switched Data</b>	1. Using the Sunset BRI Test set place a synchronous switched 64K data calls from SUT to DN over the E1 PRI link and conduct a BERT for 9 hours with a pattern of 2047.  <b>Notes:</b>	1. Bit Errors recorded _____		
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 2.3.3</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3
	<b>Requirement:</b> TS, MFS, & EOS			<b>Reference:</b> GSCR Sect. 2.3.3	
Provision an E1 PRI link between SUT and DN.					
C	<b>N X 56 Synchronous</b>	1. Using Sunset BRI test set place a 112 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via E1 PRI link. 2. Using Sunset BRI test set place a 336 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via E1 PRI link.  <b>Notes:</b>	1. Bit Errors recorded _____ 2. Bit Errors recorded _____		
	<table border="1"> <tr> <td><b>Requirement:</b> TS, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 2.3.3</td> </tr> </table>			<b>Requirement:</b> TS, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3
	<b>Requirement:</b> TS, MFS, & EOS			<b>Reference:</b> GSCR Sect. 2.3.3	
Provision an E1 PRI link between SUT and DN.					
D	<b>N X 64 Synchronous</b>	1. Using Sunset BRI test set place a 128 kbps data call for 9-hr period with a 2047 pattern from SUT to DN via E1 PRI link. 2. Using Sunset BRI test set place a 384 kbps data call for 9-hr period with a 2047 pattern SUT to DN via E1 PRI link.  <b>Notes:</b>	1. Bit Errors recorded _____ 2. Bit Errors recorded _____		
	<table border="1"> <tr> <td><b>Requirement:</b> Ts, MFS, &amp; EOS</td> <td><b>Reference:</b> GSCR Sect. 2.3.3</td> </tr> </table>			<b>Requirement:</b> Ts, MFS, & EOS	<b>Reference:</b> GSCR Sect. 2.3.3
	<b>Requirement:</b> Ts, MFS, & EOS			<b>Reference:</b> GSCR Sect. 2.3.3	
Provision an E1 PRI link between SUT and DN.					

**Table E-2.8.4. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for Data (continued)**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
E	<b>Secure Data Calls</b>	1. Place an intraswitch STU-III to STU-III secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	1. No Pattern slips. Y/N
	<b>Requirement:</b> All		No Pattern losses. Y/N
	<b>Reference:</b> CJSCI 6215.01B	2. Place an intraswitch STU-III to STE secure data call between 2 subscribers. Run a Bit Error Rate Test at 9600 bps using a 511 test pattern for 30 minutes.	Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
	Configure an E1 PRI link between SUT and DN. Provision the SUT and DN with a STE and one STU-III.		2. No Pattern slips. Y/N
		3. Place a STE to STE secure data call from ON to DN. Run a Bit Error Rate Test at 19.2 Kbps using a 511 test pattern for 9 hours minutes. Y/N	No Pattern losses. Y/N
			Bit Error Rate better than 1X10 <sup>-9</sup> Y/N
		<b>Notes:</b>	

**Table E-2.8.5. E1 ISDN PRI Q.955.3 Trunk Interface Test Procedures for VTC**

Ref #	Configuration and/or Diagram	Test Procedure(s)	Expected Result(s)
A	<b>VTC</b>	1. Place an interswitch 384 kbps video call between VTC units via E1 PRI link.	1. VTC completes. Y/N
	<b>Requirement:</b> MFS, EOS, & SMEO		VTC quality. _____
	<b>Reference:</b> Configure an E1 PRI link between SUT and DN. Provision a VTC unit off of the SUT and DN capable of transmitting 384 kbps video.	<b>Notes:</b>	

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