

**Test descriptions  
for Signalling System No.7  
national interconnect  
between Telenor Networks  
and another telecom operator  
Telenor Norwegian national interconnect  
ISUP v2 additional tests:  
additional ISUP transit tests  
additional ISDN-ISDN end-to-end tests  
additional ISDN-analogue end-to-end tests**

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## TELENOR national interconnect ISUP version 2 additional tests

When interconnect ISUP version 2 is used, the following additional tests shall be performed for the first test (not for the repeat tests). Note that the test numbering in this section is not referenced to P104.

Table V.8-7.1 ISUP tests

Test ID	Service tested	Parameters	Purpose	Result TN to Netw.X	Result Netw.X to TN
101	Compatibility procedure	<p>The following V2 parameters are included in ISUP messages (an ISDN call with CPG from calling to called side to indicate conference establishment in active phase):</p> <p>IAM: Location number, Propagation delay counter, Parameter compatibility information</p> <p>ACM: Access delivery information, Parameter compatibility information</p> <p>ANM: Call history information, Parameter compatibility information</p> <p>CPG: Generic notification, Parameter compatibility information</p> <p>Ref.Q.788, test case 2.13.1.</p>	Verify that some additional version 2 parameters can be passed correctly on the interconnect interface.		
102	CLIP	The Generic number parameter (additional calling party number/E.164) is included in the IAM. Ref.Q.788, test case 2.1.4.	Verify that the Generic number (additional calling party number/E.164) can be passed		
103	CLIP	The Generic number parameter (additional calling party number/PNP) is included in the IAM. Ref.Q.788, test case 2.1.4.	Verify that the Generic number (additional calling party number/PNP) can be passed		

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Table V.8-7.2 Basic call ISDN end-to-end tests

Test ID	Service tested	Parameters	Purpose	Result TN to Netw.X	Result Netw.X to TN
201	Multi-use bearer service	<p>SETUP includes BC1=speech, BC2=UDI-TA, HLC1=telephony, HLC2=videotelephony</p> <p>CONNECT includes BC=UDI-TA, HLC=videotelephony</p> <p>IAM: TMR= 64 kbit/s unrestricted preferred, TMR prime= speech, USI=speech, USI prime= UDI-TA, Access transport contains HLC=telephony+HLC=videotelephony</p> <p>ANM: Access transport contains BC=UDI-TA+HLC=videotelephony</p> <p>Ref.Q.788, test case 1.1.4.2.</p>	Verify that a videotelephony call without fallback can be completed successfully.		
202	Multi-use bearer service	<p>SETUP includes BC1=speech, BC2=UDI-TA, HLC1=telephony, HLC2=videotelephony</p> <p>CONNECT includes BC=UDI-TA, HLC=telephony</p> <p>IAM: TMR= 64 kbit/s unrestricted preferred, TMR prime= speech, USI=speech, USI prime= UDI-TA, Access transport contains HLC=telephony+HLC=videotelephony</p> <p>ANM: Access transport contains BC=UDI-TA+HLC=telephony</p> <p>Ref.Q.788, test case 1.1.4.2.</p>	Verify that a videotelephony call with fallback to 7 kHz telephony can be completed successfully.		

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Table V.8-7.2 Basic call ISDN end-to-end tests (continued)

Test ID	Service tested	Parameters	Purpose	Result TN to Netw.X	Result Netw.X to TN
203	Multi-use bearer service	<p>SETUP includes BC1=speech, BC2=UDI-TA, HLC1=telephony, HLC2=videotelephony</p> <p>CONNECT on destination side without BC/HLC</p> <p>CONNECT on origination side includes BC=speech, HLC=telephony</p> <p>IAM: TMR= 64 kbit/s unrestricted preferred, TMR prime= speech, USI=speech, USI prime= UDI-TA, Access transport contains HLC=telephony+HLC=videotelephony</p> <p>ANM: TMU=speech, Access transport contains BC=speech+HLC=telephony</p> <p>Ref.Q.788, test case 1.1.4.1.</p>	Verify that a videotelephony call with fallback to speech can be completed successfully.		
204	Access delivery	Access delivery is included in REL(cause 18) in ISUP. Ref.Q.788, test case 1.4.1.	Verify that Access delivery is included by the destination exchange		
205	Access delivery	Access delivery ISUP parameter is included in ACM from the destination exchange. Ref.Q.788, test case 1.1.1.	Verify that Access delivery is included by the destination exchange		

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Table V.8-7.3 Basic call ISDN - ISUPV1/PSTN tests

Test ID	Service tested	Parameters	Purpose	Result TN to Netw.X	Result Netw.X to TN
301	Multi-use bearer service	<p>SETUP includes BC1=speech, BC2=UDI-TA, HLC1=telephony, HLC2=videotelephony</p> <p>CONNECT on origination side includes BC=speech, HLC=telephony, pi.#5</p> <p>IAM: TMR= 64 kbit/s unrestricted preferred, TMR prime= speech, USI=speech, USI prime= UDI-TA, Access transport contains HLC=telephony+HLC=videotelephony</p> <p>ACM: TMU=speech</p> <p>Ref.Q.788, test case 1.1.4.2.</p>	<p>Note: The call is routed on a trunk group not supporting the multi-use bearer service within the network of TELEOPERATØR</p> <p>Verify that a videotelephony call with fallback to speech can be completed successfully when interworking with a version of ISUP not supporting the multi-use bearer service</p>		
302	Multi-use bearer service	<p>SETUP includes BC1=speech, BC2=UDI-TA, HLC1=telephony, HLC2=videotelephony</p> <p>IAM: TMR= 64 kbit/s unrestricted preferred, TMR prime= speech, USI=speech, USI prime= UDI-TA, Access transport contains HLC=telephony+HLC=videotelephony</p> <p>ACM: TMU=speech</p> <p>Ref.Q.788, test case 1.1.4.2.</p>	<p>Note: Destination access is an analog line.</p> <p>Verify that a videotelephony call to an analog line can be completed successfully with fallback to speech.</p>		

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Table V.8-7.4 Supplementary services ISDN end-to-end tests

Test ID	Service tested	Parameters	Purpose	Result TN to Netw.X	Result Netw.X to TN
401	Call waiting	Notification indicators. Ref.Q.788, test case 2.10.1.	Verify that notification is passed to called and calling users		
402	Call hold	Notification indicators. Ref.Q.788, test case 2.11.3.	Verify that notification is passed to called and calling users		
403	Conference calling	Notification indicators. Ref Q.788,2.13.1.	Verify that notification is passed to called and calling users		
404	Three-party service	Notification indicators. Ref. Q.788, 2.14.1.	Verify that notification is passed to called and calling users		
405	User-to-user 1 explicit	UUS1 explicit request (ne), UUS1 acceptance and USER INFORMATION passed in setup phase. Ref. Q.788, 2.15.3.	Verify that the UUS1 explicit service can be provided when requested during call setup.		
406	User-to-user 2	UUS2 request (ne), UUS2 acceptance and USER INFORMATION passed in setup phase. Ref. Q.788, 2.16.1.	Verify that the UUS2 service can be provided when requested during call setup.		
407	User-to-user 3	UUS3 request (ne) in SETUP, UUS3 acceptance in CONNECT and USER INFORMATION passed in active phase. Ref. Q.788, 2.17.1.	Verify that the UUS3 service can be provided when requested from the originating user in the setup phase.		
408	User-to-user 3 req. during call	UUS3 request (ne) in FACILITY, UUS3 acceptance and USER INFORMATION passed in active phase. Ref. Q.788, 2.17.5.	Verify that the UUS3 service can be provided when requested from the originating user in the active state.		
409	CCBS	CCBS possible indication in REL, TC connection established, CCBS call completed	Verify that CCBS can be provided.		