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Test Suite Overview

Test Suite Structure

Suite Name : NT7VAC
Standards Ref : EN 300 267−1 V1.2.2
PICS Ref : EN 300 267−2 V1.2.2
PIXIT Ref : EN 300 267−6 V1.2.6
Test Method(s) : Remote single layer
Comments : February, 2000 V1.2.6

Test Group Reference	Selection Ref	Test Group Objective	Page Nr
NT7VAC/		ISDN Network telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices Test suite	
NT7VAC/TL7/	SEL_TL7	To test telephony 7kHz teleservice	
NT7VAC/TL7/ORIG/		Checking the originating network interface	
NT7VAC/TL7/ORIG/FBA/		Fallback allowed	
NT7VAC/TL7/ORIG/FBN/		Fallback not allowed	
NT7VAC/TL7/ORIG/CMN/		Connection management	
NT7VAC/TL7/DEST/		Checking the destination network interface	
NT7VAC/TL7/DEST/FBA/		Fallback allowed	
NT7VAC/TL7/DEST/FBA/ST_T/		Requirements at the coincident S and T reference point or for interworking with private ISDNs	
NT7VAC/TL7/DEST/FBA/PT/	SEL_T	Requirements for interworking with private ISDNs	
NT7VAC/TL7/DEST/FBN/		Fallback not allowed	
NT7VAC/TL7/DEST/CMN/		Connection management	
NT7VAC/VTL/	SEL_VTL	To test videotelephony teleservice	
NT7VAC/VTL/ORIG/		Checking the originating network interface	
NT7VAC/VTL/ORIG/FBA/		Fallback allowed	
NT7VAC/VTL/ORIG/FBN/		Fallback not allowed	
NT7VAC/VTL/ORIG/CMN/		Connection management	
NT7VAC/VTL/DEST/		Checking the destination network interface	
NT7VAC/VTL/DEST/FBA/		Fallback allowed	
NT7VAC/VTL/DEST/FBA/ST_T/		Requirements at the coincident S and T reference point or for interworking with private ISDNs	
NT7VAC/VTL/DEST/FBA/ST/	SEL_ST	Requirements at the coincident S and T reference point	

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Test Group Reference	**Selection Ref**	**Test Group Objective**	**Page Nr**
NT7VAC/VTL/DEST/FBA/PT/	SEL_T	Requirements for interworking with private ISDNs	
NT7VAC/VTL/DEST/FBN/		Fallback not allowed	
NT7VAC/VTL/DEST/CMN/		Connection management	
NT7VAC/AGC/	SEL_AGC	To test audiographic conference teleservice	
NT7VAC/AGC/ORIG/		Checking the originating network interface	
NT7VAC/AGC/ORIG/FBA/		Fallback allowed	
NT7VAC/AGC/ORIG/FBN/		Fallback not allowed	
NT7VAC/AGC/ORIG/CMN/		Connection management	
NT7VAC/AGC/DEST/		Checking the destination network interface	
NT7VAC/AGC/DEST/FBA/		Fallback allowed	
NT7VAC/AGC/DEST/FBA/ST_T/		Requirements at the coincident S and T reference point or for interworking with private ISDNs	
NT7VAC/AGC/DEST/FBA/ST/	SEL_ST	Requirements at the coincident S and T reference point	
NT7VAC/AGC/DEST/FBA/PT/	SEL_T	Requirements for interworking with private ISDNs	
NT7VAC/AGC/DEST/FBN/		Fallback not allowed	
NT7VAC/AGC/DEST/CMN/		Connection management	
NT7VAC/VCF/	SEL_VCF	To test videoconference teleservice	
NT7VAC/VCF/ORIG/		Checking the originating network interface	
NT7VAC/VCF/ORIG/FBA/		Fallback allowed	
NT7VAC/VCF/ORIG/FBN/		Fallback not allowed	
NT7VAC/VCF/ORIG/CMN/		Connection management	
NT7VAC/VCF/DEST/		Checking the destination network interface	
NT7VAC/VCF/DEST/FBA/		Fallback allowed	
NT7VAC/VCF/DEST/FBA/ST_T/		Requirements at the coincident S and T reference point or for interworking with private ISDNs	
NT7VAC/VCF/DEST/FBA/ST/	SEL_ST	Requirements at the coincident S and T reference point	
NT7VAC/VCF/DEST/FBA/PT/	SEL_T	Requirements for interworking with private ISDNs	
NT7VAC/VCF/DEST/FBN/		Fallback not allowed	
NT7VAC/VCF/DEST/CMN/		Connection management	

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Test Suite Structure
Detailed Comments :

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/TL7/ORIG/FBA/	TTC11_01	SEL_PR_7kHz_SERV_SUC	Receipt of telephony 7 kHz fallback allowed SETUP: optional subscription check for the prime service succeeded.	
NT7VAC/TL7/ORIG/FBA/	TTC11_02	SEL_PR_7kHz_SERV_UNSUC	Receipt of telephony 7 kHz fallback allowed SETUP: optional subscription check for the prime service failed.	
NT7VAC/TL7/ORIG/FBA/	TTC11_03		Sending of CONNECT (BC=UDI/TA): fallback did not occur either within the IUT or at the destination user.	
NT7VAC/TL7/ORIG/FBA/	TTC11_04		Sending of CONNECT (BC=UDI/TA): fallback did not occur either within the IUT or at the destination user.	
NT7VAC/TL7/ORIG/FBA/	TTC11_05		Sending of CONNECT (BC=speech): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/TL7/ORIG/FBA/	TTC11_06		Sending of CONNECT (BC=speech): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/TL7/ORIG/ FBA/	TTC11_07	SEL_FBA_IN_7kHz_ TO_31kHz	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	
NT7VAC/TL7/ORIG/ FBA/	TTC11_08		According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	
NT7VAC/TL7/ORIG/ FBA/	TTC11_09		According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	
NT7VAC/TL7/ORIG/ FBA/	TTC11_10			
NT7VAC/TL7/ORIG/ FBA/	TTC11_11			
NT7VAC/TL7/ORIG/ FBA/	TTC11_12		This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

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NT7VAC/TL7/ORIG/ FBA/	TTC11_13		This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	
NT7VAC/TL7/ORIG/ FBN/	TTC12_01		According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	
NT7VAC/TL7/ORIG/ FBN/	TTC12_02		According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	
NT7VAC/TL7/ORIG/ FBN/	TTC12_03			
NT7VAC/TL7/ORIG/ FBN/	TTC12_04			
NT7VAC/TL7/ORIG/ FBN/	TTC12_05		This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/TL7/ORIG/ FBN/	TTC12_06		This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	
NT7VAC/TL7/ORIG/ CMN/	TTC13_01		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_01			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_02			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_03			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_04			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_05			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_06			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_07			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_08			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_09			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_10			
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_11	SEL_N25_POINT_T O_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/TL7/DEST/ FBA/ST_T/	TTC21_12	SEL_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_13		Fallback occurs within the private ISDN	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_14		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_15		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_16		Fallback occurs within the private ISDN	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_17		Fallback occurs within the private ISDN	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_18		Fallback occurs within the private ISDN	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_19		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_20		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_21		Fallback occurs within the private ISDN	
NT7VAC/TL7/DEST/ FBA/PT/	TTC21_22		Fallback occurs within the private ISDN	
NT7VAC/TL7/DEST/ FBN/	TTC22_01			

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NT7VAC/TL7/DEST/FBN/	TTC22_02	SEL_N25_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/TL7/DEST/FBN/	TTC22_03	SEL_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/TL7/DEST/CMN/	TTC23_01		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	
NT7VAC/VTL/ORIG/FBA/	VTC11_01	SEL_PR_VTL_SERV_SUC	Receipt of videotelephony fallback allowed SETUP: optional subscription check for prime service succeeded.	
NT7VAC/VTL/ORIG/FBA/	VTC11_02	SEL_PR_VTL_SERV_UNSUC	Receipt of videotelephony fallback allowed SETUP: optional subscription check for prime service failed.	

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NT7VAC/VTL/ORIG/ FBA/	VTC11_03		Sending of CONNECT (BC=UDI/TA, HLC=videotelephony _ic): fallback did not occur either within the IUT or at the destination user.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_04	SEL_VTL	Sending of CONNECT (BC=UDI/TA, HLC=videotelephony _ic): fallback did not occur either within the IUT or at the destination user.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_05		Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_06		Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_07		Sending of CONNECT (BC=speech, HLC=telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VTL/ORIG/ FBA/	VTC11_08		Sending of CONNECT (BC=speech, HLC=telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_09		Sending of CONNECT (BC=speech, no HLC): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_10	SEL_FBA_IN_VTL_TO_31kHz	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_11		According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VTL/ORIG/ FBA/	VTC11_12		According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_13			
NT7VAC/VTL/ORIG/ FBA/	VTC11_14			
NT7VAC/VTL/ORIG/ FBA/	VTC11_15		This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	
NT7VAC/VTL/ORIG/ FBA/	VTC11_16		This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	
NT7VAC/VTL/ORIG/ FBN/	VTC12_01		According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VTL/ORIG/ FBN/	VTC12_02		According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	
NT7VAC/VTL/ORIG/ FBN/	VTC12_03			
NT7VAC/VTL/ORIG/ FBN/	VTC12_04			
NT7VAC/VTL/ORIG/ FBN/	VTC12_05		This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	
NT7VAC/VTL/ORIG/ FBN/	VTC12_06		This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	
NT7VAC/VTL/ORIG/ CMN/	VTC13_01		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VTL/ORIG/CMN/	VTC13_02		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_01			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_02			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_03			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_04			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_05			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_06			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_07			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_08			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_09			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_10			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_11			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_12			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_13			
NT7VAC/VTL/DEST/FBA/ST_T/	VTC21_14			

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NT7VAC/VTL/DEST/ FBA/ST_T/	VTC21_15	SEL_N25_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/VTL/DEST/ FBA/ST_T/	VTC21_16	SEL_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/VTL/DEST/ FBA/ST/	VTC21_17			
NT7VAC/VTL/DEST/ FBA/ST/	VTC21_18			
NT7VAC/VTL/DEST/ FBA/ST/	VTC21_19			
NT7VAC/VTL/DEST/ FBA/ST/	VTC21_20			
NT7VAC/VTL/DEST/ FBA/ST/	VTC21_21			
NT7VAC/VTL/DEST/ FBA/ST/	VTC21_22			
NT7VAC/VTL/DEST/ FBA/ST/	VTC21_23			
NT7VAC/VTL/DEST/ FBA/ST/	VTC21_24			
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_25		Fallback occurs within the private ISDN	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_26		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_27		Fallback was allowed and occurred in the private ISDN.	

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NT7VAC/VTL/DEST/ FBA/PT/	VTC21_28		Fallback occurs within the private ISDN	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_29		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_30		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_31		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_32		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_33		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_34		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_35		Fallback occurs within the private ISDN	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_36		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_37		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_38		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_39		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VTL/DEST/ FBA/PT/	VTC21_40		Fallback was allowed and occurred in the private ISDN.	

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NT7VAC/VTL/DEST/ FBN/	VTC22_01			
NT7VAC/VTL/DEST/ FBN/	VTC22_02	SEL_N25_POINT_T O_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/VTL/DEST/ FBN/	VTC22_03	SEL_POINT_TO_POI NT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/VTL/DEST/ CMN/	VTC23_01			
NT7VAC/VTL/DEST/ CMN/	VTC23_02		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	
NT7VAC/VTL/DEST/ CMN/	VTC23_03		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

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Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/AGC/ORIG/ FBA/	ATC11_01	SEL_PR_AGC_SERV _SUC	Receipt of audiographic conference fallback allowed SETUP: optional subscription check for prime service succeeded.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_02	SEL_PR_AGC_SERV _UNSUC	Receipt of audiographic conference fallback allowed SETUP: optional subscription check for prime service failed.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_03		Sending of CONNECT (BC=UDI/TA, HLC=audiographic_i c): fallback did not occur either within the IUT or at the destination user.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_04		Sending of CONNECT (BC=UDI/TA, HLC=audiographic_i c): fallback did not occur either within the IUT or at the destination user.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_05		Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

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NT7VAC/AGC/ORIG/ FBA/	ATC11_06		Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_07		Sending of CONNECT (BC=speech, HLC=telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_08		Sending of CONNECT (BC=speech, HLC=telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_09	SEL_FBA_IN_AGC_ TO_31kHz	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	

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NT7VAC/AGC/ORIG/ FBA/	ATC11_10		According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	
NT7VAC/AGC/ORIG/ FBA/	ATC11_11		According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_12			
NT7VAC/AGC/ORIG/ FBA/	ATC11_13			
NT7VAC/AGC/ORIG/ FBA/	ATC11_14		This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	
NT7VAC/AGC/ORIG/ FBA/	ATC11_15		This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/AGC/ORIG/ FBN/	ATC12_01		According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	
NT7VAC/AGC/ORIG/ FBN/	ATC12_02		According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	
NT7VAC/AGC/ORIG/ FBN/	ATC12_03			
NT7VAC/AGC/ORIG/ FBN/	ATC12_04			
NT7VAC/AGC/ORIG/ FBN/	ATC12_05		This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	
NT7VAC/AGC/ORIG/ FBN/	ATC12_06		This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/AGC/ORIG/ CMN/	ATC13_01		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	
NT7VAC/AGC/ORIG/ CMN/	ATC13_02		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_01			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_02			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_03			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_04			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_05			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_06			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_07			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_08			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_09			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_10			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_11			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_12			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_13			

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_14			
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_15	SEL_N25_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/AGC/DEST /FBA/ST_T/	ATC21_16	SEL_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/AGC/DEST /FBA/ST/	ATC21_17			
NT7VAC/AGC/DEST /FBA/ST/	ATC21_18			
NT7VAC/AGC/DEST /FBA/ST/	ATC21_19			
NT7VAC/AGC/DEST /FBA/ST/	ATC21_20			
NT7VAC/AGC/DEST /FBA/ST/	ATC21_21			
NT7VAC/AGC/DEST /FBA/ST/	ATC21_22			
NT7VAC/AGC/DEST /FBA/ST/	ATC21_23			
NT7VAC/AGC/DEST /FBA/ST/	ATC21_24			
NT7VAC/AGC/DEST /FBA/PT/	ATC21_25		Fallback occurs within the private ISDN	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_26		Fallback was allowed and occurred in the private ISDN.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/AGC/DEST /FBA/PT/	ATC21_27		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_28		Fallback occurs within the private ISDN	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_29		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_30		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_31		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_32		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_33		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_34		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_35		Fallback occurs within the private ISDN	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_36		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_37		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_38		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBA/PT/	ATC21_39		Fallback was allowed and occurred in the private ISDN.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/AGC/DEST /FBA/PT/	ATC21_40		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/AGC/DEST /FBN/	ATC22_01			
NT7VAC/AGC/DEST /FBN/	ATC22_02	SEL_N25_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/AGC/DEST /FBN/	ATC22_03	SEL_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/AGC/DEST /CMN/	ATC23_01			
NT7VAC/AGC/DEST /CMN/	ATC23_02		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	
NT7VAC/AGC/DEST /CMN/	ATC23_03		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VCF/ORIG/FBA/	CTC11_01	SEL_PR_VCF_SERV_SUC	Receipt of videoconference fallback allowed SETUP: optional subscription check for prime service succeeded.	
NT7VAC/VCF/ORIG/FBA/	CTC11_02	SEL_PR_VCF_SERV_UNSUC	Receipt of videoconference fallback allowed SETUP: optional subscription check for prime service failed.	
NT7VAC/VCF/ORIG/FBA/	CTC11_03		Sending of CONNECT (BC=UDI/TA, HLC=videoconference_ic): fallback did not occur either within the IUT or at the destination user.	
NT7VAC/VCF/ORIG/FBA/	CTC11_04		Sending of CONNECT (BC=UDI/TA, HLC=videoconference_ic): fallback did not occur either within the IUT or at the destination user.	
NT7VAC/VCF/ORIG/FBA/	CTC11_05		Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VCF/ORIG/ FBA/	CTC11_06		Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/VCF/ORIG/ FBA/	CTC11_07		Sending of CONNECT (BC=speech, HLC=telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/VCF/ORIG/ FBA/	CTC11_08		Sending of CONNECT (BC=speech, HLC=telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	
NT7VAC/VCF/ORIG/ FBA/	CTC11_09	SEL_FBA_IN_VCF_ TO_31kHz	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VCF/ORIG/ FBA/	CTC11_10		According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	
NT7VAC/VCF/ORIG/ FBA/	CTC11_11		According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	
NT7VAC/VCF/ORIG/ FBA/	CTC11_12			
NT7VAC/VCF/ORIG/ FBA/	CTC11_13			
NT7VAC/VCF/ORIG/ FBA/	CTC11_14		This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	
NT7VAC/VCF/ORIG/ FBA/	CTC11_15		This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VCF/ORIG/ FBN/	CTC12_01		According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	
NT7VAC/VCF/ORIG/ FBN/	CTC12_02		According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	
NT7VAC/VCF/ORIG/ FBN/	CTC12_03			
NT7VAC/VCF/ORIG/ FBN/	CTC12_04			
NT7VAC/VCF/ORIG/ FBN/	CTC12_05		This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	
NT7VAC/VCF/ORIG/ FBN/	CTC12_06		This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VCF/ORIG/ CMN/	CTC13_01		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	
NT7VAC/VCF/ORIG/ CMN/	CTC13_02		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_01			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_02			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_03			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_04			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_05			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_06			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_07			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_08			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_09			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_10			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_11			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_12			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_13			

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_14			
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_15	SEL_N25_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/VCF/DEST/ FBA/ST_T/	CTC21_16	SEL_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/VCF/DEST/ FBA/ST/	CTC21_17			
NT7VAC/VCF/DEST/ FBA/ST/	CTC21_18			
NT7VAC/VCF/DEST/ FBA/ST/	CTC21_19			
NT7VAC/VCF/DEST/ FBA/ST/	CTC21_20			
NT7VAC/VCF/DEST/ FBA/ST/	CTC21_21			
NT7VAC/VCF/DEST/ FBA/ST/	CTC21_22			
NT7VAC/VCF/DEST/ FBA/ST/	CTC21_23			
NT7VAC/VCF/DEST/ FBA/ST/	CTC21_24			
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_25		Fallback occurs within the private ISDN	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_26		Fallback was allowed and occurred in the private ISDN.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_27		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_28		Fallback occurs within the private ISDN	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_29		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_30		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_31		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_32		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_33		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_34		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_35		Fallback occurs within the private ISDN	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_36		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_37		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_38		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_39		Fallback was allowed and occurred in the private ISDN.	

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Test Case Index				
Test Group Reference	**Test Case Id**	**Selection Ref**	**Description**	**Page Nr**
NT7VAC/VCF/DEST/ FBA/PT/	CTC21_40		Fallback was allowed and occurred in the private ISDN.	
NT7VAC/VCF/DEST/ FBN/	CTC22_01			
NT7VAC/VCF/DEST/ FBN/	CTC22_02	SEL_N25_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/VCF/DEST/ FBN/	CTC22_03	SEL_POINT_TO_POINT	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	
NT7VAC/VCF/DEST/ CMN/	CTC23_01			
NT7VAC/VCF/DEST/ CMN/	CTC23_02		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	
NT7VAC/VCF/DEST/ CMN/	CTC23_03		According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

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Test Case Index
Detailed Comments :

Test Step Index			
Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
MTCA/	MTCA_PR_N00	Preamble to N00	
MTCA/	MTCA_PR_FBA_7kHz_N3	Preamble to call state N3	
MTCA/	MTCA_PR_FBA_7kHz_N4	Preamble to call state N4	
MTCA/	MTCA_PR_FBA_7kHz_N6	Preamble to call state N6, Incoming Call	
MTCA/	MTCA_PR_FBA_7kHz_N7	Preamble to call state N7, Incoming Call	
MTCA/	MTCA_PR_FBA_7kHz_N9	Preamble to call state N9, Incoming Call	
MTCA/	MTCA_PR_FBN_7kHz_N3	Preamble to call state N3	
MTCA/	MTCA_PR_FBN_7kHz_N9	Preamble to call state N9, Incoming Call	
MTCA/	MTCA_PR_FBA_N3	Preamble to call state N3	
MTCA/	MTCA_PR_FBA_N4	Preamble to call state N4	
MTCA/	MTCA_PR_FBA_N6	Preamble to call state N6	
MTCA/	MTCA_PR_FBA_N7	Preamble to call state N7	
MTCA/	MTCA_PR_FBA_N9	Preamble to call state N7	
MTCA/	MTCA_PR_FBN_N3	Preamble to call state N3	
MTCA/	MTCA_PR_FBN_N9	Preamble to call state N7	
MTCA/	MTCA_PR_IC_N10I	Preamble to call state N10, Incoming Call	
MTCA/	MTCA_PR_IC_N10O	Preamble to call state N10, Outgoing Call	
MTCA/	MTCA_PR_2B_N10O	Preamble to call state N10, Outgoing Call	
MTCA/	MTCA_PO_N00	Postamble to N00	
MTCA/	MTCA_PO_2B_N00	Postamble to N00	
MTCA/	MTCA_CHECK_IN_BAND_TA	To check in−band tones and announcement in a 3,1 kHz mode, encoded according to G.711 [77] A−law, by an operator	
MTCA/	MTCA_CS	Check the call state of the IUT	
MTCA/	MTCA_CS_2B	Check the call states of the IUT (Two calls in progress)	
PTC1/	PTC1_PR_N00	Preamble to N00, PTC1	
PTC1/	PTC1_IN	Test step PTC1, Incoming call	
PTC1/	PTC1_OUT	Test step PTC1, Outgoing call	
PTC1/	PTC1_BCAP_OUT	Test step PTC1, Outgoing call	
PTC1/	PTC1_BCAP_HLC_OUT	Test step PTC1, Outgoing call	

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Test Step Index			
Test Step Group Reference	**Test Step Id**	**Description**	**Page Nr**
PTC1/	PTC1_2B_IN	Test step PTC1, Incoming call for a two B−channels video call	
PTC1/	PTC1_2B_OUT	Test step PTC1, Outgoing call for a two B−channels call	
PTC1/	PTC1_PO_N00	Postamble to N00, PTC1	
PTCT/	PTCT_OUT	Test step PTCT, Outgoing call for PSTN	
END_PTC/	END_PTC1	Terminate PTC1	
END_PTC/	END_PTCT	Terminate PTCT	
Detailed Comments :			

Default Index			
Default Group Reference	**Default Id**	**Description**	**Page Nr**
MTCA_Defaults/	MTCA_DEF	Default MTC	
MTCA_Defaults/	MTCA_DEF_2B	Default MTC, two call references	
PTC_Defaults/	PTC1_DEF	Default PTC1	
PTC_Defaults/	PTC1_DEF_2B	Default tree for PTC1 trees at lower level PCO when a two B−channels communication test is running	
PTC_Defaults/	PTCT_DEF	Standard Default tree for PTCT trees	
Detailed Comments :			

II

Declarations Part

Simple Type Definitions			
Type Name	**Type Definition**	**Type Encoding**	**Comments**
MT_LIST	OCTETSTRING ('01'O, '02'O, '07'O, '0F'O, '03'O, '05'O, '0D'O, '26'O, '2E'O, '22'O, '25'O, '2D'O, '21'O, '20'O, '45'O, '4D'O, '5A'O, '46'O, '4E'O, '60'O, '79'O, '7B'O, '62'O, '6E'O, '7D'O, '75'O, '24'O, '28'O, '30'O, '31'O, '33'O, '37'O, '64'O)		OCTETSTRING[1] see ETS 300 403−1, table 4.2
GFP_MT_LIST	OCTETSTRING ('24'O, '28'O, '30'O, '31'O, '33'O, '37'O, '62'O, '64'O)		OCTETSTRING[1] see ETS 300 196, subclause 11
BCAP_I	BITSTRING('00000100' B)		Bearer capability identifier type
CAU_I	BITSTRING('00001000' B)		Cause identifier type
CDPN_I	BITSTRING('01110000' B)		Called party number identifier type
CDPS_I	BITSTRING('01110001' B)		Called party subaddress identifier type
CGPN_I	BITSTRING('01101100' B)		Calling party number identifier type
CGPS_I	BITSTRING('01101101' B)		Calling party subaddress identifier type
CHI_I	BITSTRING ('00011000'B)		Channel identification identifier type
CODN_I	BITSTRING('01001100' B)		Connected number identifier type
CODS_I	BITSTRING('01001101' B)		SpareConnected subaddress identifier type
CST_I	BITSTRING('00010100' B)		Call state identifier type
DATI_I	BITSTRING('00101001' B)		Date/time identifier type
DSP_I	BITSTRING('00101000' B)		Display identifier type
EFAC_I	BITSTRING ('00001101'B)		Extended Facility id type
FAC_I	BITSTRING ('00011100'B)		Facility identifier type
HLC_I	BITSTRING('01111101' B)		High layer compatibilty identifier type

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Simple Type Definitions			
Type Name	**Type Definition**	**Type Encoding**	**Comments**
LLC_I	BITSTRING('01111100' B)		Low layer compatibilty identifier type
KPF_I	BITSTRING('00101100' B)		Keypad facility identifier type
NSF_I	BITSTRING('00100000' B)		Network−specific facility identifier type
NOID_I	BITSTRING('00100111' B)		Notification indicator identifier type
PI_I	BITSTRING('00011110' B)		Progress indicator identifier type
RI_I	BITSTRING('01111001' B)		Restart indicator identifier type
RNGN_I	BITSTRING('01110100' B)		Redirecting number identifier type
RONN_I	BITSTRING('01110110' B)		Redirection number identifier type
TNS_I	BITSTRING('01111000' B)		Transit network selection identifier type
UUI_I	BITSTRING('01111110' B)		User−user identifier type
PD	BITSTRING('00001000' B)		Protocol discriminator
MT	BITSTRING[8]		Message type
SCI	BITSTRING('10100001' B)		Sending complete information
IE_LIST	OCTETSTRING[0..255]		Any sequence of information elements
CR_LENGTH_TYPE	BITSTRING[4]		Call reference length type
FLAG_TYPE	BITSTRING[1]		Call reference flag type
CALL_REF_TYPE	BITSTRING[7..15]		Call reference value type
CLASS_TYPE	INTEGER(0, 6, 7)		Restart indicator class type
CLASS_RST_IND_TYPE	BITSTRING('000'B,'110' B, '111'B)		Restart indicator class value type
HLC_ID_LIST	BITSTRING('0000001'B, '1100000'B, '1100001'B, '1100010'B)		High layer char. id. for telephony, videotelephony, audiographic conf. , videoconfrenece
Detailed Comments :			

Structured Type Definition			
Type Name : CR (Call reference) **Encoding Variation** : **Comments** : Call Reference ETS 300 403−1 subclause 4.3			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
cr_l1 (Length, bits 8 − 5)	BITSTRING[4]		
cr_l2 (Length, bits 4 − 1)	CR_LENGTH_TYPE		
cr_f (FLag)	FLAG_TYPE		
cr_r (Call reference value)	CALL_REF_TYPE		
Detailed Comments :			

Structured Type Definition			
Type Name : BCAP (Bearer capability) **Encoding Variation** : **Comments** : Info Element Bearer CAPability ETS 300 403−1 subclause 4.5.5			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
bcap_i (Identifier)	BCAP_I		
bcap_l (Length)	OCTETSTRING[1]		
bcap_con (Contents)	OCTETSTRING[0..10]		
Detailed Comments :			

Structured Type Definition			
Type Name : CST (Call state) **Encoding Variation** : **Comments** : Information Element Call STate ETS 300 403−1 subclause 4.5.7			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
cst_i (Identifier)	CST_I		
cst_l (Length)	BITSTRING[8]		
cst_cs (Coding stamdard)	BITSTRING[2]		
cst_csv (Call state value)	BITSTRING[6]		
Detailed Comments :			

Structured Type Definition			
Type Name : CDPN (Called party number)			
Encoding Variation :			
Comments : Information Element CalleD Party Number ETS 300 403−1 subclause 4.5.8			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
cdpn_i (Identifier)	CDPN_I		
cdpn_l (Length)	OCTETSTRING[1]		
cdpn_e3_npi (Type of number, Numbering plan identification)	OCTETSTRING[1]		
cdpn_e4_nd (Number digits)	OCTETSTRING[1..20]		
Detailed Comments :			

Structured Type Definition			
Type Name : CDPS (Called party subaddress)			
Encoding Variation :			
Comments : Information Element CalleD Party Subaddress ETS 300 403−1 subclause 4.5.9			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
cdps_i (Identifier)	CDPS_I		
cdps_l (Length)	OCTETSTRING[1]		
cdps_e3_tos (Type of subaddress, Odd/even indicator)	OCTETSTRING[1]		
cdps_e4_si (Subaddress information)	OCTETSTRING[1..20]		
Detailed Comments :			

Structured Type Definition			
Type Name : CGPN (Calling party number)			
Encoding Variation :			
Comments : Information Element CallinG Party Number ETS 300 403−1 subclause 4.5.10			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
cgpn_i (Identifier)	CGPN_I		
cgpn_l (Length)	OCTETSTRING[1]		
cgpn_e3_ton (Type of number)	BITSTRING[4]		
cgpn_e3_npi (Numbering plan identifier)	BITSTRING[4]		
cgpn_e4_pi (Presentation indicator)	BITSTRING[3]		
cgpn_e4_si (Screening indicator)	BITSTRING[5]		
cgpn_e5_nd (Number digits)	OCTETSTRING[0..20]		
Detailed Comments :			

Structured Type Definition			
Type Name : CGPS (Calling party subaddress)			
Encoding Variation :			
Comments : Information Element CallinG Party Subaddress ETS 300 403−1 subclause 4.5.11			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
cgps_i (Identifier)	CGPS_I		Identifier
cgps_l (Length)	OCTETSTRING[1]		Length
cgps_e3_tos (Type of subaddress)	BITSTRING[4]		
cgps_e3_oei (Odd/even indicator)	BITSTRING[1]		
cgps_e3_sp (Spare)	BITSTRING[3]		
cgps_e4_si (Subaddress information)	OCTETSTRING[1 TO 20]		
Detailed Comments :			

Structured Type Definition			
Type Name : CAU (Cause)			
Encoding Variation :			
Comments : Info Element CAUse ETS 300 403−1 subclause 4.5.12			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
cau_i (Identifier)	CAU_I		
cau_l (Length)	BITSTRING[8]		
cau_e3_eb (Extension bit)	BITSTRING[1]		
cau_e3_cs (Coding standard)	BITSTRING[3]		
cau_e3_loc (Location)	BITSTRING[4]		
cau_e4_rec (Recommendation)	OCTETSTRING[0..1]		
cau_e5_eb (Extension bit)	BITSTRING[1]		
cau_e5_cv (Cause value)	BITSTRING[7]		
cau_di (Diagnostics)	OCTETSTRING[0..28]		
Detailed Comments :			

Structured Type Definition			
Type Name : CHI (Channel identification)			
Encoding Variation :			
Comments : Information Element CHannel Identification ETS 300 403−1 subclause 4.5.13			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
chi_i (Identifier)	CHI_I		
chi_l (Length)	BITSTRING[8]		
chi_e3_eb (Extension bit)	BITSTRING[1]		
chi_e3_int (Interface identifier present, interface type, preferred/exclusive)	BITSTRING[5]		
chi_e3_cs (Channel selection)	BITSTRING[2]		
chi_e4_csct (Coding standard, number bit, channel type)	BITSTRING[8]		(1)
chi_e5_eb (Extension bit)	BITSTRING[1]		(1)
chi_e5_cn (Channel number)	BITSTRING[7]		(1)
Detailed Comments : (1) The octets 4 and 5 are only used in primary rate access configurations.			

Structured Type Definition

Type Name : CHI_RS (Channel identification)

Encoding Variation :

Comments : Information Element CHannel Identification
ETS 300 403−1 subclause 4.5.13
This special Channel identification information element type is used to handle restart procedures.

Element Name	Type Definition	Field Encoding	Comments
chi_i (Identifier)	CHI_I		
chi_l (Length)	BITSTRING[8]		
chi_e3_eb (Extension bit)	BITSTRING[1]		
chi_e3_int ((Interface identifier present, interface type, preferred/exclusive)	BITSTRING[5]		
chi_e3_cs (Channel selection)	BITSTRING[2]		
chi_e4_csct (Coding standard, number bit, channel type)	BITSTRING[8]		(1)
chi_e5_eb (Extension bit)	BITSTRING[1]		(1)
chi_e5_cn (Channel number)	BITSTRING[7]		(1)
chi_e6_eb (Extension bit)	BITSTRING[1]		(1) (2)
chi_e6_cn (Channel number)	BITSTRING[7]		(1) (2)
chi_cn (Channel number)	OCTETSTRING[1..30]		(1) (2)

Detailed Comments : (1) The octets following octet 3 only used in primary rate access configurations.
(2) Additional coding variants can be used to test the restart procedures.

Structured Type Definition			
Type Name : CODN (Connected number)			
Encoding Variation :			
Comments : Information Element COnnecteD Number ETS 300 097−1 subclause 7.1			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
codn_i (Identifier)	CODN_I		
codn_l (Length)	OCTETSTRING[1]		
codn_e3_ton (Type of number)	BITSTRING[4]		
codn_e3_npi (Numbering plan identifier)	BITSTRING[4]		
codn_e3_pi (Presentation indicator)	BITSTRING[3]		
codn_e3_si (Screening indicator)	BITSTRING[5]		
codn_e4_nd (Number digits)	OCTETSTRING[0..20]		
Detailed Comments :			

Structured Type Definition			
Type Name : CODS (Connected subaddress)			
Encoding Variation :			
Comments : Information Element COnnecteD Subaddress ETS 300 097−1 subclause 7.2			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
cods_i (Identifier)	CODS_I		
cods_l (Length)	OCTETSTRING[1]		
cods_e3_tos (Type of subaddress)	BITSTRING[4]		
cods_e3_oei (Odd/even indicator)	BITSTRING[1]		
cods_e3_sp (Spare)	BITSTRING[3]		
cods_e4_si (Subaddress information)	OCTETSTRING[1..20]		
Detailed Comments :			

Structured Type Definition			
Type Name : DATI (Date/time)			
Encoding Variation :			
Comments : Info Element DAte/TIme ETS 300 403−1 subclause 4.5.15			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
dati_i (Identifier)	DATI_I		
dati_l (Length)	BITSTRING[8]		
dati_dt (Date/time value)	OCTETSTRING[0..6]		
Detailed Comments :			

Structured Type Definition			
Type Name : DSP (Display)			
Encoding Variation :			
Comments : Information Element DiSPlay ETS 300 403−1 subclause 4.5.16			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
dsp_i (Identifier)	DSP_I		
dsp_l (Length)	BITSTRING[8]		
dsp_di (Display information)	OCTETSTRING[0..80]		
Detailed Comments :			

Structured Type Definition			
Type Name : EFAC (Extended facility)			
Encoding Variation :			
Comments : Extended FACility ETS 300 196−1 subclause 11.2.2.4			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
efac_i (Identifier)	EFAC_I		
efac_l (Length)	OCTETSTRING[2 TO 250]		
efac_e3_pp (Protocol profile)	BITSTRING[8]		
efac_comp (Components)	OCTETSTRING[0..250]		
Detailed Comments :			

Structured Type Definition			
Type Name : FAC (Facility)			
Encoding Variation :			
Comments : FACility ETS 300 196−1 subclause 11.2.2.1			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
fac_i (Identifier)	FAC_I		
fac_l (Length)	BITSTRING[8]		
fac_e3_pp (Protocol profile)	BITSTRING[8]		
fac_comp (Components)	OCTETSTRING[0..251]		
Detailed Comments :			

Structured Type Definition			
Type Name : HLC (High layer compatibility)			
Encoding Variation :			
Comments : Info Element High Layer Compatibility for videotelephony, audiographic conferencing and videoconferencing ETS 300 403−1 subclause 4.5.17			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
hlc_i (Identifier)	HLC_I		
hlc_l (Length)	OCTETSTRING[1]		
hlc_e3 (Octet 3)	OCTETSTRING[1]		
hlc_e4_eb (Extension bit)	BITSTRING[1]		
hlc_e4_id (High layer characteristics id.)	HLC_ID_LIST		
hlc_e4a (Extended characteristics)	OCTETSTRING[1]		
Detailed Comments :			

Structured Type Definition			
Type Name : KPF (Keypad facility)			
Encoding Variation :			
Comments : Information Element KeyPad Facility ETS 300 403−1 subclause 4.5.18			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
kpf_i (Identifier)	KPF_I		
kpf_l (Length)	BITSTRING[8]		
kpf_ki (Keypad information)	OCTETSTRING[0..32]		
Detailed Comments :			

Structured Type Definition			
Type Name : LLC (Low layer compatibility)			
Encoding Variation :			
Comments : Info Element Low Layer Compatibility ETS 300 403−1 subclause 4.5.19			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
llc_i (Identifier)	LLC_I		
llc_l (Length)	OCTETSTRING[1]		
llc_con (Contents)	OCTETSTRING[0..16]		
Detailed Comments :			

Structured Type Definition			
Type Name : NSF (Network−specific facilities)			
Encoding Variation :			
Comments : Information Element Network−Specific Facilties ETS 300 403−1 subclause 4.5.21			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
nsf_i (Identifier)	NSF_I		
nsf_l (Length)	BITSTRING[8]		
nsf_e3_lni (Length of network identification)	BITSTRING[8]		
nsf_e4_toni (Type of network identification)	BITSTRING[4]		
nsf_e4_nip (Network identification plan)	BITSTRING[4]		
nsf_ni (Network identification)	OCTETSTRING[0..125]		
nsf_nsfs (Network−specific facility specification)	OCTETSTRING[0..125]		
Detailed Comments :			

Structured Type Definition			
Type Name : NOID (Notification indicator)			
Encoding Variation :			
Comments : Information Element NOtification InDicator ETS 300 403−1 subclause 4.5.22			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
noid_i (Identifier)	NOID_I		
noid_l (Length)	BITSTRING[8]		
noid_nd (Notification description)	OCTETSTRING[0..252]		
Detailed Comments :			

Structured Type Definition			
Type Name : PI (Progress indicator)			
Encoding Variation :			
Comments : Information Element Progress Indicator ETS 300 403−1 subclause 4.5.23			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
pi_i (Identifier)	PI_I		
pi_l (Length)	BITSTRING[8]		
pi_e3_loc (Coding standard, location)	BITSTRING[8]		
pi_e4_eb (Extension bit)	BITSTRING[1]		
pi_e4_pd (Progress description)	BITSTRING[7]		
Detailed Comments :			

Structured Type Definition			
Type Name : RNGN (Redirecting number)			
Encoding Variation :			
Comments : Info Element RedirectiNG Number ETS 300 207 subclause 7.2.2			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
rngn_i (Identifier)	RNGN_I		
rngn_l (Length)	OCTETSTRING[1]		
rngn_e3_ton (Type of number)	BITSTRING[4]		
rngn_e3_npi (Numbering plan identifier)	BITSTRING[4]		
rngn_e4_pi (Presentation indicator)	BITSTRING[3]		
rngn_e4_sp (Spare)	BITSTRING[5]		
rngn_e5_sp (Spare)	BITSTRING[4]		
rngn_e5_rfd (Reason for diversion)	BITSTRING[4]		
rngn_e6_nd (Number digits)	OCTETSTRING[0..20]		
Detailed Comments :			

Structured Type Definition			
Type Name : RONN (Redirection number)			
Encoding Variation :			
Comments : Info Element RedirectiON Number ETS 300 207−1 subclause 7.2.3			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
ronn_i (Identifier)	RONN_I		
ronn_l (Length)	BITSTRING[8]		
ronn_e3_ton (Type of number)	BITSTRING[4]		
ronn_e3_npi (Numbering plan identifier)	BITSTRING[4]		
ronn_e4_pi (Presentation indicator)	BITSTRING[3]		
ronn_e4_sp (Spare)	BITSTRING[5]		
ronn_e5_nd (Number digits)	OCTETSTRING[0..20]		
Detailed Comments :			

Structured Type Definition			
Type Name : RI (Restart indicator)			
Encoding Variation :			
Comments : Information Element Restart Indicator ETS 300 403−1 subclause 4.5.25			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
ri_i (Identifier)	RI_I		
ri_l (Length)	BITSTRING[8]		
ri_sp (Spare)	BITSTRING[5]		
ri_cl (Class)	BITSTRING[3]		
Detailed Comments :			

Structured Type Definition			
Type Name : TNS			
Encoding Variation :			
Comments : Information Element Transit Network Selection ETS 300 403−1 subclause 4.5.29			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
tns_i (Identifier)	TNS_I		
tns_l (Length)	BITSTRING[8]		
tns_e3_toni (Type of network identification)	BITSTRING[4]		
tns_e3_nip (Network identification plan)	BITSTRING[4]		
tns_ni (Network identification)	OCTETSTRING[0..251]		
Detailed Comments :			

Structured Type Definition			
Type Name : UUI (User−user)			
Encoding Variation :			
Comments : Information Element User−user ETS 300 286−1 subclause 7.3.3			
Element Name	**Type Definition**	**Field Encoding**	**Comments**
uui_i (Identifier)	UUI_I		
uui_l (Length)	BITSTRING[8]		
uui_e3_pd (Protocol discriminator)	BITSTRING[8]		
uui_ui (User information)	OCTETSTRING[0..128]		
Detailed Comments :			

Test Suite Operation Definition	
Operation Name :	ASSIGN_CHI(basic, primary : CHI; basic_flag : BOOLEAN)
Result Type :	CHI
Comments :	This operation is used to assign a correct Channel identification information element to PDUs dependant on the type of access that is tested.
Description	
CHI ASSIGN_CHI(basic,primary,basic_flag) If the value of the basic_flag is set to TRUE, the result of the operation ASSIGN_CHI will be the value represented by the parameter basic which is of type CHI. Else the operation results in the value represented by the parameter primary. Examples: ASSIGN_CHI(CHI1b_R1, CHI1p_R1, TRUE) = CHI1b_R1 ASSIGN_CHI(CHI1b_R1, CHI1p_R1, FALSE) = CHI1p_R1	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	ASSIGN_CHI_RS(basic, primary : CHI_RS; basic_flag : BOOLEAN)
Result Type :	CHI_RS
Comments :	This operation is used to assign a correct Channel identification information element to PDUs dependant on the type of access that is tested. This operation is very similar to ASSIGN_CHI. The only difference is that the type CHI_RS is used instead of CHI.
Description	
CHI_RS ASSIGN_CHI(basic,primary,basic_flag) If the value of the basic_flag is set to TRUE, the result of the operation ASSIGN_CHI_RS will be the value represented by the parameter basic which is of type CHI_RS. Else the operation results in the value represented by the parameter primary. Examples: ASSIGN_CHI(CHI_RSb_R1, CHI_RSp_R1, TRUE) = CHI_RSb_R1 ASSIGN_CHI(CHI_RSb_R1, CHI_RSp_R1, FALSE) = CHI_RSp_R1	
Detailed Comments :	

Test Suite Operation Definition	
Operation Name :	CONCAT(OCTS1 , OCTS2 : OCTETSTRING)
Result Type :	OCTETSTRING
Comments :	This operation is used to concatinate octet strings.
Description	
OCTETSTRING CONCAT(String1, String2) Returns an SEGMENT containing the concatenation of String1 and String2. Example: CONCAT(’123’O,’4567’O) = ’1234567’O	
Detailed Comments :	

Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
PC_TL7	BOOLEAN	PICS R 1.1	TRUE, if the IUT implements Telephony 7kHz teleservice
PC_VTL	BOOLEAN	PICS R 1.2	TRUE, if the IUT implements videotelephony teleservice
PC_AGC	BOOLEAN	PICS R 1.3	TRUE, if the IUT implements audiographic conference teleservice
PC_VCF	BOOLEAN	PICS R 1.4	TRUE, if the IUT implements videoconference teleservice
PC_COINC_ST_REF	BOOLEAN	PICS R 3.1	TRUE, if the IUT supports requirements at the coincident S and T reference point
PC_T_REF	BOOLEAN	PICS R 3.2	TRUE, if the IUT supports procedures for interworking with private ISDN at the T reference point
PC_BASIC	BOOLEAN	PICS R 6.1 and R 6.2	TRUE −> basic access FALSE −> primary rate access, defined in PICS for Basic call
PC_POINT_TO_POINT	BOOLEAN	PICS R 7.1	TRUE, if the IUT is configured point−to−point. This item is defined in PICS for Basic call
PC_OVERLAP_RECEIVING	BOOLEAN	PICS MCn 2.2	TRUE, if the IUT supports and uses the overlap receiving procedures, defined in PICS for Basic call
PC_SUBSCRIPTION_CHECK	BOOLEAN	PICS SCn 161.1	TRUE, if the IUT performes subscription check for a basic telecommunication service, defined in PICS for Basic call
PC_T302MIN	INTEGER	PICS TMn 2	T302 value − 5%; default 14250 ms defined in PICS for Basic call

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
PC_T302MAX	INTEGER	PICS TMn 2	T302 value + 5%; default 15750 ms defined in PICS for Basic call
PC_T310MIN	INTEGER	PICS TMn 10	T310 value − 5%; no default (in ms) defined in PICS for Basic call
PC_T310MAX	INTEGER	PICS TMn 10	T310 value + 5%; no default (in ms) defined in PICS for Basic call
PX_WAIT_RESTART	BOOLEAN	PIXIT 1.1	TRUE, if the IUT sends RESTART messages after re−establishment of the multiple frame operation
PX_L2_RELEASE_N00	BOOLEAN	PIXIT 1.2	TRUE, if the IUT initiates release of the multiple frame established operation after entering N00
PX_CHECK_IN_BAND_TA	BOOLEAN	PIXIT 1.3	TRUE, if an operator can check tone and announcement
PX_FBA_IN_7kHz_TO_31kHz	BOOLEAN	PIXIT 2.1	TRUE, if the IUT is able to fallback within itself to 3.1 kHz teleservice on receipt of 7 kHz SETUP fallback allowed message
PX_FBA_IN_VTL_TO_31kHz	BOOLEAN	PIXIT 2.2	TRUE, if the IUT is able to fallback within itself to 3.1 kHz teleservice on receipt of videotelephony SETUP fallback allowed message
PX_FBA_IN_AGC_TO_31kHz	BOOLEAN	PIXIT 2.3	TRUE, if the IUT is able to fallback within itself to 3.1 kHz teleservice on receipt of audiographic conference SETUP fallback allowed message

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
PX_FBA_IN_VCF_TO_31kHz	BOOLEAN	PIXIT 2.4	TRUE, if the IUT is able to fallback within itself to 3.1 kHz teleservice on receipt of videoconference SETUP fallback allowed message
PX_PRIME_7kHz_UNSUC	BOOLEAN	PIXIT 2.5	TRUE, if the IUT can be forced to achieve an unsuccessful susbscription check for a telephony 7 kHz teleservice at its originating interface
PX_PRIME_VTL_UNSUC	BOOLEAN	PIXIT 2.6	TRUE, if the IUT can be forced to achieve an unsuccessful susbscription check for a videotelephony teleservice at its originating interface
PX_PRIME_AGC_UNSUC	BOOLEAN	PIXIT 2.7	TRUE, if the IUT can be forced to achieve an unsuccessful susbscription check for an audiographic conference teleservice at its originating interface
PX_PRIME_VCF_UNSUC	BOOLEAN	PIXIT 2.8	TRUE, if the IUT can be forced to achieve an unsuccessful susbscription check for a videoconference teleservice at its originating interface
PX_TWAIT	INTEGER	PIXIT 3.1	Value for timer that controls test events initiated at the IUT via a PTC.(Value in seconds)
PX_TAC	INTEGER	PIXIT 3.2	Value for timer that controls test events initiated by stimuli sent by the tester. (Value in seconds)
PX_TNOAC	INTEGER	PIXIT 3.3	Value for timer that controls the inactivity of the IUT. (Value in seconds)

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
PX_T_RESTART	INTEGER	PIXIT 3.4	Value for timer that is used to wait for RESTART messages. (Value in seconds)
PX_T_CHECK_TA	INTEGER	PIXIT 3.5	Value for timer to allow the operator to check tone and announcement. (Value in seconds)
PX_CR_LENGTH	CR_LENGTH_TYPE	PIXIT 4.1	Value for bits 4 − 1 of the call reference length, Bitstring[4]
PX_MTCA_LCPN	OCTETSTRING	PIXIT 4.2.1	Length of the Called party number information element to be sent to the IUT to address MTCA
PX_MTCA_CDPN_OCTET3	OCTETSTRING	PIXIT 4.2.2	Octet 3 (Type of number, Numbering plan identification) of the Called party number information element to be sent to the IUT to address MTCA
PX_MTCA_CPN	OCTETSTRING	PIXIT 4.2.2	Number digits (IA5) for the complete Called party number information element to be sent to the IUT to address MTCA
PX_PTC1_LCPN	OCTETSTRING	PIXIT 4.3.1	Length of the Called party number information element to be sent to the IUT to address PTC1
PX_PTC1_CDPN_OCTET3	OCTETSTRING	PIXIT 4.3.2	Octet 3 (Type of number, Numbering plan identification) of the Called party number information element to be sent to the IUT to address PTC1
PX_PTC1_CPN	OCTETSTRING	PIXIT 4.3.2	Number digits (IA5) for the complete Called party number information element to be sent to the IUT to address PTC1

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Test Suite Parameter Declarations			
Parameter Name	**Type**	**PICS/PIXIT Ref**	**Comments**
PX_PSTN_LCPN	OCTETSTRING	PIXIT 4.4.1	Length of the PSTN Called party number information element to be sent to the IUT
PX_PSTN_CDPN_OCTET3	OCTETSTRING	PIXIT 4.4.2	Octet 3 (Type of number, Numbering plan identification) of the PSTN Complete Called party number information element to be sent to the IUT
PX_PSTN_LCPN1	OCTETSTRING	PIXIT 4.4.1	Length of the first part of the PSTN Called party number information element to be sent to the IUT
PX_PSTN_CPN_PART1	OCTETSTRING	PIXIT 4.4.2	Number digits (IA5) for the first part of the PSTN Called party number information element to be sent to the IUT
PX_PSTN_LCPN2	OCTETSTRING	PIXIT 4.4.1	Length of the second part of the PSTN Called party number information element to be sent to the IUT
PX_PSTN_CPN_PART2	OCTETSTRING	PIXIT 4.4.2	Number digits (IA5) for the second part of the PSTN Called party number information element to be sent to the IUT
PX_CH_NUM	INTEGER	PIXIT 4.5	Preferred channel number for outgoing calls (Integer) Possible value: Basic access 1 .. 2 Primary rate access 1 .. 30.
PX_CH_NUM2	INTEGER	PIXIT 4.6	Preferred channel number for second outgoing call (Integer) Possible value: Basic access 1 .. 2 Primary rate access 1 .. 30.
Detailed Comments :			

Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
SEL_TL7	PC_TL7 OR PC_VTL OR PC_AGC OR PC_VCF	TRUE, if the IUT implements Telephony 7kHz teleservice
SEL_VTL	PC_VTL	TRUE, if the IUT implements videotelephony teleservice
SEL_AGC	PC_AGC	TRUE, if the IUT implements audiographic conference teleservice
SEL_VCF	PC_VCF	TRUE, if the IUT implements videoconference teleservice
SEL_ST	PC_COINC_ST_REF	TRUE, if the IUT supports requirements at the coincident S and T reference point
SEL_T	PC_T_REF	TRUE, if the IUT supports procedures for interworking with private ISDN at the T reference point
SEL_PR_7kHz_SERV_SUC	PC_SUBSCRIPTION_CHECK AND NOT PX_PRIME_7kHz_UNSUC	TRUE, if the IUT subscripts check for prime service corresponding to a telephony 7 kHz teleservice and can be configured to achieve it successfuly
SEL_PR_7kHz_SERV_UNSUC	PC_SUBSCRIPTION_CHECK AND PX_PRIME_7kHz_UNSUC	TRUE, if the IUT subscripts check for prime service corresponding to a telephony 7 kHz teleservice and can be configured to achieve it unsuccessfuly
SEL_PR_VTL_SERV_SUC	PC_SUBSCRIPTION_CHECK AND NOT PX_PRIME_VTL_UNSUC	TRUE, if the IUT subscripts check for prime service corresponding to a videotelephony teleservice and can be configured to achieve it successfuly
SEL_PR_VTL_SERV_UNSUC	PC_SUBSCRIPTION_CHECK AND PX_PRIME_VTL_UNSUC	TRUE, if the IUT subscripts check for prime service corresponding to a videotelephony teleservice and can be configured to achieve it unsuccessfuly
SEL_PR_AGC_SERV_SUC	PC_SUBSCRIPTION_CHECK AND NOT PX_PRIME_AGC_UNSUC	TRUE, if the IUT subscripts check for prime service corresponding to a audiographic conference teleservice and can be configured to achieve it successfuly

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Test Case Selection Expression Definitions		
Expression Name	**Selection Expression**	**Comments**
SEL_PR_AGC_SERV_UNSUC	PC_SUBSCRIPTION_CHECK AND PX_PRIME_AGC_UNSUC	TRUE, if the IUT subscripts check for prime service corresponding to a audiographic conference teleservice and can be configured to achieve it unsuccessfuly
SEL_PR_VCF_SERV_SUC	PC_SUBSCRIPTION_CHECK AND NOT PX_PRIME_VCF_UNSUC	TRUE, if the IUT subscripts check for prime service corresponding to a videoconference teleservice and can be configured to achieve it successfuly
SEL_PR_VCF_SERV_UNSUC	PC_SUBSCRIPTION_CHECK AND PX_PRIME_VCF_UNSUC	TRUE, if the IUT subscripts check for prime service corresponding to a videoconference teleservice and can be configured to achieve it unsuccessfuly
SEL_FBA_IN_7kHz_TO_31kHz	PX_FBA_IN_7kHz_TO_31kHz	TRUE, if the IUT can be configured to fallback within itself to 3.1 kHz teleservice on receipt of a 7kHz SETUP fallback allowed message
SEL_FBA_IN_VTL_TO_31kHz	PX_FBA_IN_VTL_TO_31kHz	TRUE, if the IUT can be configured to fallback within itself to 3.1 kHz teleservice on receipt of a videotelephony SETUP fallback allowed message
SEL_FBA_IN_AGC_TO_31kHz	PX_FBA_IN_AGC_TO_31kHz	TRUE, if the IUT can be configured to fallback within itself to 3.1 kHz teleservice on receipt of an audiographic conference SETUP fallback allowed message
SEL_FBA_IN_VCF_TO_31kHz	PX_FBA_IN_VCF_TO_31kHz	TRUE, if the IUT can be configured to fallback within itself to 3.1 kHz teleservice on receipt of a videoconference SETUP fallback allowed message
SEL_N25_POINT_TO_POINT	PC_POINT_TO_POINT AND PC_OVERLAP_RECEIVING	TRUE, if the IUT supports point−to−point configurations and uses the overlap receiving procedures
SEL_POINT_TO_POINT	PC_POINT_TO_POINT	TRUE, if the IUT supports point−to−point configurations
Detailed Comments :		

Test Suite Constant Declarations			
Constant Name	**Type**	**Value**	**Comments**
PROTOCOL_DISCRIMINATOR_Q931	BITSTRING	’00001000’B	(1)
MT_ALERTING	BITSTRING	’00000001’B	
MT_CALL_PROC	BITSTRING	’00000010’B	
MT_CONNECT	BITSTRING	’00000111’B	
MT_CONNECT_ACK	BITSTRING	’00001111’B	
MT_DISCONNECT	BITSTRING	’01000101’B	
MT_INFORMATION	BITSTRING	’01111011’B	
MT_NOTIFY	BITSTRING	’01101110’B	
MT_PROGRESS	BITSTRING	’00000011’B	
MT_RELEASE	BITSTRING	’01001101’B	
MT_RELEASE_COM	BITSTRING	’01011010’B	
MT_RESTART	BITSTRING	’01000110’B	
MT_RESTART_ACK	BITSTRING	’01001110’B	
MT_SETUP	BITSTRING	’00000101’B	
MT_SETUP_ACK	BITSTRING	’00001101’B	
MT_STATUS	BITSTRING	’01111101’B	
MT_STATUS_ENQ	BITSTRING	’01110101’B	
SCI_VALUE	BITSTRING	’10100001’B	Sending complete
ID_BCAP	BITSTRING	’00000100’B	Bearer capability
ID_CAU	BITSTRING	’00001000’B	Cause
ID_CDPN	BITSTRING	’01110000’B	Called party number
ID_CHI	BITSTRING	’00011000’B	Channel identification
ID_CST	BITSTRING	’00010100’B	Call state
ID_HLC	BITSTRING	’01111101’B	High layer compatibilty
ID_NOID	BITSTRING	’00100111’B	Notification indicator
ID_PI	BITSTRING	’00011110’B	Progress
ID_RI	BITSTRING	’01111001’B	Restart indicator
H_VTL	BITSTRING	’1100000’B	Videotelephony
H_VCF	BITSTRING	’1100001’B	Videoconferencing
H_AGC	BITSTRING	’1100010’B	Audigraphic conferencing
Detailed Comments : (1) Protocol discriminator value "Q.931 user−network call control messages"			

Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
CSTV	INTEGER		Call state value of 1st call
CSTV2	INTEGER		Call state value of 2nd call
B_CHN	BITSTRING		B−channel of 1st call
B_CHN2	BITSTRING		B−channel of 2nd call
CHI_LENGTH	BITSTRING	’00000011’B	Length of Channel identification
B_CHN_RS	OCTETSTRING		B−channel for restart procedures
L2_ESTABLISHED	BOOLEAN	FALSE	Variable to hold layer 2 status
CREF	CALL_REF_TYPE		Call reference value of 1st call
CREF2	CALL_REF_TYPE		Call reference value of 2nd call
END_FLAG	BOOLEAN	FALSE	Control flag for REPEAT loops
OTHER_FLAG	BOOLEAN	FALSE	Control flag for REPEAT loops
GLOB_CREF	CALL_REF_TYPE		Global call reference value
PTC_ACTIVATED	BOOLEAN	TRUE	Variable to handle test cases where PTC1 is not activated
PTCT_ACTIVATED	BOOLEAN	FALSE	Variable to handle test cases where PTCT is activated
P1CREF	CALL_REF_TYPE		1st call reference for PTC1
P1CREF2	CALL_REF_TYPE		2nd call reference for PTC1
STOP_FLAG1	BOOLEAN	FALSE	Flag value used to control the execution loop of the PTC1 test component
STOP_FLAG_T	BOOLEAN	FALSE	Flag value used to control the execution loop of the PTCT test component
P1_B_CHN	BITSTRING		1st B−channel for PTC1
P1_B_CHN2	BITSTRING		2nd B−channel for PTC1
TWO_CALLS	BOOLEAN	FALSE	Flag value used to know how many calls have been established and to be released at PTC1

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Test Case Variable Declarations			
Variable Name	**Type**	**Value**	**Comments**
ACT_HLC_ID	HLC_ID_LIST		Actual high layer characteristics id.
Detailed Comments :			

PCO Type Declarations		
PCO Type	**Role**	**Comments**
OSAP	UT	
SAP	LT	
PSTN_ACCESS	UT	
Detailed Comments :		

PCO Declarations			
PCO Name	**PCO Type**	**Role**	**Comments**
O	OSAP	UT	(1)
L0	SAP	LT	PCO for MTCA (2)
L1	SAP	LT	PCO for PTC1 (2)
T	PSTN_ACCESS	UT	PCO for PTCT (3)

Detailed Comments : (1) OSAP is the operator keyboard input that confirms or check the action requested by the tester
(2) SAP at the lower tester controlling and observing the exchange of call control PDUs (messages) on the ISDN layer 3 D−channel. The lower tester is the user of the data link layer service.
(3) Operator at the PSTN access

Coordination Point Declarations	
CP Name	**Comments**
CPA1	CP: MTCA − PTC1
CPAT	CP: MTCA − PTCT
Detailed Comments :	

Timer Declarations			
Timer Name	**Duration**	**Unit**	**Comments**
TWAIT	PX_TWAIT	s	(1)
TAC	PX_TAC	s	(2)
TNOAC	PX_TNOAC	s	(3)
T_RESTART	PX_T_RESTART	s	(4)
T_MIN		ms	(5)
T_MAX		ms	(5)
TCTA	PX_T_CHECK_TA	s	(6)

Detailed Comments : (1) Timer to control test events initiated at the IUT via a PTC or by the test operator.
(2) Timer to control test events initiated by stimuli sent by the tester.
(3) Timer to control the inactivity of the IUT.
(4) Timer to allow the IUT to produce RESTART messages.
(5) Timers to test the implementation of IUT timers. Duration values are assigned in the dynamic part.
(6) Value for timer to allow the operator to check tone and announcement

Test Component Declarations				
Component Name	**Component Role**	**Nr PCOs**	**Nr CPs**	**Comments**
MTCA	MTC	2	2	main test component
PTC1	PTC	1	1	1st parallel test component
PTCT	PTC	1	1	PSTN paralell test component
Detailed Comments :				

Test Components Configuration Declaration			
Configuration Name : CONFIG0			
Comments : Only MTCA Communication Test Configuration			
Components Used	**PCOs Used**	**CPs Used**	**Comments**
MTCA	L0,O		
Detailed Comments :			

Test Components Configuration Declaration			
Configuration Name : CONFIG1			
Comments : Multy−party Remote Single−layer Embedded (RSE) test method configuration with one MTC and one PTC			
Components Used	**PCOs Used**	**CPs Used**	**Comments**
MTCA	L0,O	CPA1	(1)
PTC1	L1	CPA1	(2)
Detailed Comments : (1) MTCA communicates with PTC1. (2) PTC1 communicates with MTCA.			

Test Components Configuration Declaration			
Configuration Name : CONFIGT			
Comments : Multy−party Remote Single−layer Embedded (RSE) test method configuration with an ISDN MTC and a PSTN PTC			
Components Used	**PCOs Used**	**CPs Used**	**Comments**
MTCA	L0,O	CPAT	(1)
PTCT	T	CPAT	(2)
Detailed Comments : (1) MTCA communicates with PTCT (2) PTCT communicates with MTCA			

ASP Type Definition		
ASP Name : DL_EST_RQ (DL−ESTABLISH−REQUEST)		
PCO Type : SAP		
Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to request the establishment of multiple frame operation (L3 −−−> L2).		
Parameter Name	**Parameter Type**	**Comments**
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EST_IN (DL−ESTABLISH−INDICATION)		
PCO Type : SAP		
Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to indicate the establishment of multiple frame operation (L2 −−−> L3).		
Parameter Name	**Parameter Type**	**Comments**
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_EST_CO (DL−ESTABLISH−CONFIRM)		
PCO Type : SAP		
Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to confirm the establishment of multiple frame operation (L2 −−−> L3).		
Parameter Name	**Parameter Type**	**Comments**
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_REL_RQ (DL−RELEASE−REQUEST)		
PCO Type : SAP		
Comments : CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to request the termination of an established multiple frame operation (L3 −−−> L2).		
Parameter Name	**Parameter Type**	**Comments**
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_REL_IN (DL−RELEASE−INDICATION) **PCO Type :** SAP **Comments :** CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to confirm the termination of an established multiple frame operation or to report an unsuccessful establishment attempt (L2 −−−> L3).		
Parameter Name	**Parameter Type**	**Comments**
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_REL_CO (DL−RELEASE−CONFIRM) **PCO Type :** SAP **Comments :** CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to confirm the termination of an established multiple frame operation (L2 −−−> L3).		
Parameter Name	**Parameter Type**	**Comments**
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DAT_RQ (DL−DATA−REQUEST) **PCO Type :** SAP **Comments :** CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to request the transmission of layer 3 PDUs using acknowledged operation (L3 −−−> L2).		
Parameter Name	**Parameter Type**	**Comments**
mun (Message unit)	PDU	Network layer (peer−to−peer message) PDU.
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DAT_IN (DL−DATA−INDICATION) **PCO Type :** SAP **Comments :** CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to indicate the receipt of layer 3 PDUs using acknowledged operation (L2 −−−> L3).		
Parameter Name	**Parameter Type**	**Comments**
mun (Message unit)	PDU	Network layer (peer−to−peer message) PDU.
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DAT_IN_RESTART (DL−DATA−INDICATION) **PCO Type :** SAP **Comments :** CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to indicate the receipt of RESTART PDUs using acknowledged operation (L2 −−−> L3).		
Parameter Name	**Parameter Type**	**Comments**
mun (Message unit)	RESTART_PDU	Network layer (peer−to−peer message) PDU.
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_DAT_IN_SETUP (DL−DATA−INDICATION) **PCO Type :** SAP **Comments :** CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to indicate the receipt of SETUP PDUs using acknowledged operation (L2 −−−> L3).		
Parameter Name	**Parameter Type**	**Comments**
mun (Message unit)	SETUP_PDU	Network layer (peer−to−peer message) PDU.
Detailed Comments :		

ASP Type Definition		
ASP Name : DL_UDAT_IN_SETUP (DL−UNIT−DATA−INDICATION) **PCO Type :** SAP **Comments :** CEId: = (SAPI,CES) mapped onto DLCI: = (SAPI,TEI) This ASP is used to indicate the receipt of SETUP PDUs using unacknowledged operation (L2 −−−> L3).		
Parameter Name	**Parameter Type**	**Comments**
mun (Message unit)	SETUP_PDU	Network layer (peer−to−peer message) PDU.
Detailed Comments :		

ASP Type Definition		
ASP Name : HANG_UP **PCO Type :** PSTN_ACCESS **Comments :** This ASP is used to request the Hanging up of the handset to release a call		
Parameter Name	**Parameter Type**	**Comments**
Detailed Comments :		

ASP Type Definition		
ASP Name : OFF_HOOK **PCO Type :** PSTN_ACCESS **Comments :** This ASP is used to request the lifting of the handset to accept a call		
Parameter Name	**Parameter Type**	**Comments**
Detailed Comments :		

PDU Type Definition			
PDU Name : DISPLAY			
PCO Type : OSAP			
Encoding Rule Name :			
Encoding Variation :			
Comments : message sent to the operator			
Field Name	**Field Type**	**Field Encoding**	**Comments**
ACTION	IA5String		string display for the operator
Detailed Comments :			

PDU Type Definition			
PDU Name : ALERTING_PDU (ALERTING)			
PCO Type : SAP			
Encoding Rule Name :			
Encoding Variation :			
Comments : Significance: global Direction: both ETS 300 403−1 subclause 3.1.1			
Field Name	**Field Type**	**Field Encoding**	**Comments**
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
bcap (Bearer capability)	BCAP		Direction: both, type: O, length: 4 − 12 octets
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
chi (Channel identification)	CHI		Direction: u>n , type: O, length: 2 − 34 octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
pi (Progress indicator)	PI		Direction: both, type: O, length: 2 − 4 octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
ronn (Redirection number)	RONN		Direction: n>u , type: O, length: 2 − 24 octets
hlc (High layer compatibilty)	HLC		Direction: both, type: O, length: 2 − 4 octets
uui (User−user)	UUI		Direction: both, type: O, length: 2 − * octets
Detailed Comments :			

PDU Type Definition			
PDU Name : ANY_MSG_PDU			
PCO Type : SAP			
Encoding Rule Name :			
Encoding Variation :			
Comments : Significance: none Direction: user−to−network			
Field Name	**Field Type**	**Field Encoding**	**Comments**
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT_LIST		Direction: both, type: M, length: 1 octet
ie_list (Information elements)	IE_LIST		Direction: both, type: O, length: 1 − * octets
Detailed Comments : Dummy PDU declarations used in the PTC default trees to filter the receipt of expected and unexpected messages			

PDU Type Definition

PDU Name : CALL_PROC_PDU (CALL PROCEEDING)
PCO Type : SAP
Encoding Rule Name :
Encoding Variation :
Comments : Significance: local Direction: both
ETS 300 403−1 subclause 3.1.2

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
bcap (Bearer capability)	BCAP		Direction: both, type: O, length: 4 − 12 octets
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
chi (Channel identification)	CHI		Direction: both, type: O, length: 2 − 34 octets (1)
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
pi (Progress indicator)	PI		Direction: both, type: O, length: 2 − 4 octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
hlc (High layer compatibilty)	HLC		Direction: both, type: O, length: 2 − 4 octets

Detailed Comments : (1) Mandatory in the network−to−user direction.

PDU Type Definition

PDU Name : CONNECT_PDU (CONNECT)
PCO Type : SAP
Encoding Rule Name :
Encoding Variation :
Comments : Significance: global Direction: both
ETS 300 403−1 subclause 3.1.3

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
bcap (Bearer capability)	BCAP		Direction: both, type: O, length: 4 − 12 octets
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
chi (Channel identification)	CHI		Direction: u>n , type: O, length: 2 − 34 octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
pi (Progress indicator)	PI		Direction: both, type: O, length: 2 − 4 octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
dati (Date/time)	DATI		Direction: n>u , type: O, length: 2 − 7 octets
codn (Connected number)	CODN		Direction: both, type: O, length: 2 − 24 octets
cods (Connected subaddress)	CODS		Direction: both, type: O, length: 2 − 23 octets
ronn (Redirection number)	RONN		Direction: n>u , type: O, length: 2 − 24 octets
llc (Low layer compatibilty)	LLC		Direction: both, type: O, length: 2 − 16 octets
hlc (High layer compatibilty)	HLC		Direction: both, type: O, length: 2 − 4 octets
uui (User−user)	UUI		Direction: both, type: O, length: 2 − * octets

Detailed Comments :

PDU Type Definition

PDU Name : CONNECT_ACK_PDU (CONNECT ACKNOWLEDGE)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: global Direction: both
ETS 300 403−1 subclause 3.1.4

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets

Detailed Comments :

PDU Type Definition

PDU Name : DISCONNECT_PDU (DISCONNECT)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: global Direction: both
ETS 300 403−1 subclause 3.1.5

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
cau (Cause)	CAU		Direction: both, type: M, length: 4 − 32 octets
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
pi (Progress indicator)	PI		Direction: n>u , type: O, length: 2 − 4 octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
uui (User−user)	UUI		Direction: both, type: O, length: 2 − * octets

Detailed Comments :

PDU Type Definition

PDU Name : INFORMATION_PDU (INFORMATION)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: local Direction: both
ETS 300 403−1 subclause 3.1.6

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
sci (Sending complete)	SCI		Direction: both, type: O, length: 1 octet (1)
cau (Cause)	CAU		Direction: n>u , type: O, length: 4 − 32 octets
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
kpf (Keypad facility)	KPF		Direction: u>n , type: O, length: 2 − 34 octets
cdpn (Called party number)	CDPN		Direction: both, type: O, length: 2 − 23 octets
ronn (Redirection number)	RONN		Direction: n>u , type: O, length: 2 − 24 octets

Detailed Comments : (1) The Sending complete information element may be located at any position in the message.

PDU Type Definition

PDU Name : NOTIFY_PDU (NOTIFY)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: access Direction: both
ETS 300 403−1 subclause 3.1.7

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
noid (Notification indicator)	NOID		Direction: both, type: M, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
ronn (Redirection number)	RONN		Direction: n>u , type: O, length: 2 − 24 octets

Detailed Comments :

PDU Type Definition

PDU Name : PROGRESS_PDU (PROGRESS)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: global Direction: both
ETS 300 403−1 subclause 3.1.8

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
bcap (Bearer capability)	BCAP		Direction: n>u , type: O, length: 4 − 12 octets
cau (Cause)	CAU		Direction: both, type: O, length: 4 − 32 octets
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
pi (Progress indicator)	PI		Direction: both, type: M, length: 4 octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
ronn (Redirection number)	RONN		Direction: n>u , type: O, length: 2 − 24 octets
hlc (High layer compatibilty)	HLC		Direction: both, type: O, length: 2 − 4 octets
uui (User−user)	UUI		Direction: both, type: O, length: 2 − * octets

Detailed Comments :

PDU Type Definition			
PDU Name : GFP_MSG_PDU			
PCO Type : SAP			
Encoding Rule Name :			
Encoding Variation :			
Comments : Significance: none Direction: user−to−network ETS 300 196−1 subclause 11			
Field Name	**Field Type**	**Field Encoding**	**Comments**
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	GFP_MT_LIST		Direction: both, type: M, length: 1 octet
ie_list (Information elements)	IE_LIST		Direction: both, type: O, length: 1 − * octets
Detailed Comments :			

PDU Type Definition

PDU Name : RELEASE_PDU (RELEASE)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: local Direction: both
ETS 300 403−1 subclause 3.1.9

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
cau (Cause)	CAU		Direction: both, type: O, length: 4 − 32 octets (1)
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
uui (User−user)	UUI		Direction: both, type: O, length: 2 − * octets

Detailed Comments : (1) Mandatory in the first call clearing message, including when the RELEASE message is sent as a result of an error handling condition.

PDU Type Definition

PDU Name : RELEASE_COM_PDU (RELEASE COMPLETE)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: local Direction: both
ETS 300 403−1 subclause 3.1.10

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
cau (Cause)	CAU		Direction: both, type: O, length: 4 − 32 octets (1)
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
uui (User−user)	UUI		Direction: both, type: O, length: 2 − * octets

Detailed Comments : (1) Mandatory in the first call clearing message, including when the RELEASE message is sent as a result of an error handling condition.

PDU Type Definition

PDU Name : RESTART_PDU (RESTART)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: local Direction: both
ETS 300 403−1 subclause 3.4.1

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
chi (Channel identification)	CHI		Direction: both, type: O, length: 2 − 34 octets
chi_rs (Channel identification)	CHI_RS		Direction: both, type: O, length: 2 − 34 octets (1)
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
ri (Restart indicator)	RI		Direction: both, type: M, length: 3 octets

Detailed Comments : (1) This special Channel identification information element type is used to handle the restart procedures.

PDU Type Definition

PDU Name : RESTART_ACK_PDU (RESTART ACKNOWLEDGE)

PCO Type : SAP

Encoding Rule Name :

Encoding Variation :

Comments : Significance: local Direction: both
ETS 300 403−1 subclause 3.4.2

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
chi (Channel identification)	CHI		Direction: both, type: O, length: 2 − 34 octets
chi_rs (Channel identification)	CHI_RS		Direction: both, type: O, length: 2 − 34 octets (1)
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
ri (Restart indicator)	RI		Direction: both, type: M, length: 3 octets

Detailed Comments : (1) This special Channel identification information element type is used to handle the restart procedures.

PDU Type Definition

PDU Name : SETUP_PDU (SETUP)
PCO Type : SAP
Encoding Rule Name :
Encoding Variation :
Comments : Significance: global Direction: both
ETS 300 403−1 subclause 3.1.14

Field Name	Field Type	Field Encoding	Comments
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
sci (Sending complete)	SCI		Direction: both, type: O, length: 1 octet (1)
bcap (Bearer capability)	BCAP		Direction: both, type: M, length: 4 − 12 octets
bcap_2 (Bearer capability)	BCAP		Direction: both, type: M, length: 4 − 12 octets (2)
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
chi (Channel identification)	CHI		Direction: both, type: O, length: 2 − 34 octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
pi (Progress indicator)	PI		Direction: both, type: O, length: 2 − 4 octets
nsf (Network−specific facilities)	NSF		Direction: both, type: O, length: 2 − * octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
kpf (Keypad facility)	KPF		Direction: u>n , type: O, length: 2 − 34 octets
cgpn (Calling party number)	CGPN		Direction: both, type: O, length: 2 − 24 octets
cgps (Calling party subaddress)	CGPS		Direction: both, type: O, length: 2 − 23 octets
cdpn (Called party number)	CDPN		Direction: both, type: O, length: 2 − 23 octets
cdps (Called party subaddress)	CDPS		Direction: both, type: O, length: 2 − 23 octets
rngn (Redirecting number)	RNGN		Direction: n>u , type: O, length: 2 − 24 octets

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PDU Type Definition			
Field Name	**Field Type**	**Field Encoding**	**Comments**
tns (Transfer network selection)	TNS		Direction: u>n , type: O, length: 2 − * octets
llc (Low layer compatibilty)	LLC		Direction: both, type: O, length: 2 − 16 octets
hlc (High layer compatibilty)	HLC		Direction: both, type: O, length: 2 − 4 octets
hlc_2 (High layer compatibilty)	HLC		Direction: both, type: O, length: 2 − 4 octets (2)
uui (User−user)	UUI		Direction: both, type: O, length: 2 − * octets
Detailed Comments : (1) The Sending complete information element may be located at any position in the message. (2) Bearer capability and High layer compatibility information elements may be repeated, if fallback to an alternative service is allowed. For the repeated Bearer capability information element two different types are used for sending and receiving.			

PDU Type Definition			
PDU Name : SETUP_ACK_PDU (SETUP ACKNOWLEDGE) **PCO Type** : SAP **Encoding Rule Name :** **Encoding Variation :** **Comments** : Significance: global Direction: both ETS 300 403−1 subclause 3.1.15			
Field Name	**Field Type**	**Field Encoding**	**Comments**
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
efac (Extended facility)	EFAC		Direction: both, type: O, length: 2 − * octets
chi (Channel identification)	CHI		Direction: both, type: O, length: 2 − 34 octets
fac (Facility)	FAC		Direction: both, type: O, length: 2 − * octets
pi (Progress indicator)	PI		Direction: both, type: O, length: 2 − 4 octets
noid (Notification indicator)	NOID		Direction: both, type: O, length: 2 − * octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : STATUS_PDU (STATUS)			
PCO Type : SAP			
Encoding Rule Name :			
Encoding Variation :			
Comments : Significance: local Direction: both ETS 300 403−1 subclause 3.1.16, 3.4.3			
Field Name	**Field Type**	**Field Encoding**	**Comments**
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
cau (Cause)	CAU		Direction: both, type: M, length: 4 − 32 octets
cst (Call state)	CST		Direction: both, type: M, length: 3 octets
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
Detailed Comments :			

PDU Type Definition			
PDU Name : STATUS_ENQ_PDU (STATUS ENQUIRY)			
PCO Type : SAP			
Encoding Rule Name :			
Encoding Variation :			
Comments : Significance: local Direction: both ETS 300 403−1 subclause 3.1.17			
Field Name	**Field Type**	**Field Encoding**	**Comments**
pd (Protocol discriminator)	PD		Direction: both, type: M, length: 1 octet
cr (Call reference)	CR		Direction: both, type: M, length: 1 − 3 octets
mt (Message type)	MT		Direction: both, type: M, length: 1 octet
dsp (Display)	DSP		Direction: n>u , type: O, length: 2 − 82 octets
Detailed Comments :			

CM Type Definition		
CM Name : CP_M **Comments** : coordination message		
Parameter Name	**Parameter Type**	**Comments**
CM_content	IA5String	message content in clear text
Detailed Comments :		

CM Type Definition		
CM Name : CP_M_FBA_S **Comments** : coordination message carrying the required HLC		
Parameter Name	**Parameter Type**	**Comments**
CM_par	HLC_ID_LIST	message content is the proper high layer characteristics id.
Detailed Comments :		

CM Type Definition		
CM Name : CP_M_FBN_S **Comments** : coordination message carrying the required HLC		
Parameter Name	**Parameter Type**	**Comments**
CM_par	HLC_ID_LIST	message content is the proper high layer characteristics id.
Detailed Comments :		

CM Type Definition		
CM Name : CP_M_SC_S **Comments** : coordination message carrying the required HLC		
Parameter Name	**Parameter Type**	**Comments**
CM_par	HLC_ID_LIST	message content is the proper high layer characteristics id.
Detailed Comments :		

Alias Definitions		
Alias Name	**Expansion**	**Comments**
PDUs	DL_DAT_RQ	PDU sent, point−to−point data link
PDUr	DL_DAT_IN	PDU received
RESTARTr	DL_DAT_IN_RESTART	RESTART received
SETUPr	DL_DAT_IN_SETUP	SETUP received, point−to−point
SETUP_BROADCASTr	DL_UDAT_IN_SETUP	SETUP received, point−to−multipoint
Detailed Comments :		

III

Constraints Part

Structured Type Constraint Declaration			
Constraint Name : BCAP_R			
Structured Type : BCAP			
Derivation Path :			
Encoding Variation :			
Comments : Bearer capability Receive constraint			
Element Name	**Element Value**	**Element Encoding**	**Comments**
bcap_i	ID_BCAP		Identifier
bcap_l	?		Length present
bcap_con	?		Contents present
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BCAP_SPEECH			
Structured Type : BCAP			
Derivation Path :			
Encoding Variation :			
Comments : Bearer capability with transfer capability field set to "speech", its transfer mode set to "circuit mode", its information transfer rate set to 64 kbits/s and its user information layer one protocol field set to "G.711 A−law".			
Element Name	**Element Value**	**Element Encoding**	**Comments**
bcap_i	ID_BCAP		Identifier
bcap_l	’03’O		Length present
bcap_con	’8090A3’O		Contents present
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : BCAP_UDI			
Structured Type : BCAP			
Derivation Path :			
Encoding Variation :			
Comments : Bearer capability with transfer capability field set to "unrestricted digital information", its transfer mode set to "circuit mode", its information transfer rate set to 64 kbits/s and its user information layer one protocol field set to "H.221 and H.242".			
Element Name	**Element Value**	**Element Encoding**	**Comments**
bcap_i	ID_BCAP		Identifier
bcap_l	’03’O		Length present
bcap_con	’8890A5’O		Contents present
Detailed Comments : "Recommendation H221 and H242" values is defined only ETS 300 403−1.			

Structured Type Constraint Declaration

Constraint Name : BCAP_UDITA
Structured Type : BCAP
Derivation Path :
Encoding Variation :
Comments : Bearer capability with transfer capability field set to "unrestricted digital information with tones/announcements", its transfer mode set to "circuit mode", its information transfer rate set to 64 kbits/s and its user information layer one protocol field set to "H.221 and h.242".

Element Name	Element Value	Element Encoding	Comments
bcap_i	ID_BCAP		Identifier
bcap_l	’03’O		Length present
bcap_con	’9190A5’O		Contents present

Detailed Comments : "Unrestricted digital information with tones/announcements" and "Recommendation H221 and H242" values are defined only ETS 300 403−1.

Structured Type Constraint Declaration

Constraint Name : CAU_ANY_R
Structured Type : CAU
Derivation Path :
Encoding Variation :
Comments : Receive constraint with any cause value

Element Name	Element Value	Element Encoding	Comments
cau_i	ID_CAU		Cause identifier
cau_l	?		Length value present
cau_e3_eb	?		Extension bit present
cau_e3_cs	’000’B		CCITT standardised coding
cau_e3_loc	?		Location value present
cau_e4_rec	*		Any or no recommendation value
cau_e5_eb	’1’B		Extension bit present
cau_e5_cv	?		Parametrised cause value
cau_di	*		Any or no diagnostics

Detailed Comments :

Structured Type Constraint Declaration			
Constraint Name : CAU_R(CVAL: INTEGER)			
Structured Type : CAU			
Derivation Path :			
Encoding Variation :			
Comments : Receive CAUSE constraint with parametrized cause value			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cau_i	ID_CAU		Cause identifier
cau_l	?		Length value present
cau_e3_eb	?		Extension bit present
cau_e3_cs	’000’B		CCITT standardised coding
cau_e3_loc	?		Location value present
cau_e4_rec	*		Any or no recommendation value
cau_e5_eb	’1’B		Extension bit present
cau_e5_cv	INT_TO_BIT(CVAL, 7)		Parametrized cause value
cau_di	*		Any or no diagnostics
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CAU_S(CVAL: INTEGER)			
Structured Type : CAU			
Derivation Path :			
Encoding Variation :			
Comments : Send constraint with parametrized cause value			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cau_i	ID_CAU		Cause identifier
cau_l	’00000010’B		Length value present
cau_e3_eb	’1’B		Extension bit present
cau_e3_cs	’000’B		CCITT standardised coding
cau_e3_loc	’0000’B		Location user
cau_e4_rec	−		No recommendation value
cau_e5_eb	’1’B		Extension bit present
cau_e5_cv	INT_TO_BIT(CVAL, 7)		Parametrized cause value
cau_di	−		No diagnostics value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : CDPN_MTCA			
Structured Type : CDPN			
Derivation Path :			
Encoding Variation :			
Comments : Called party number adressing PTC0. Sent constraint; values as given in the test suite parameters			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cdpn_i	ID_CDPN		Identifier
cdpn_l	PX_MTCA_LCPN		Length present
cdpn_e3_npi	PX_MTCA_CDPN_OCTET3		Type of number and Numbering plan identification present
cdpn_e4_nd	PX_MTCA_CPN		Number digits present
Detailed Comments : PX_LCPN, PX_CDPN_OCTET3 and PX_CPN are test suite parameters			

Structured Type Constraint Declaration			
Constraint Name : CDPN_PTC1			
Structured Type : CDPN			
Derivation Path :			
Encoding Variation :			
Comments : Called party number adressing PTC1. Sent constraint; values as given in the test suite parameters			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cdpn_i	ID_CDPN		Identifier
cdpn_l	PX_PTC1_LCPN		Length present
cdpn_e3_npi	PX_PTC1_CDPN_OCTET3		Type of number and Numbering plan identification present
cdpn_e4_nd	PX_PTC1_CPN		Number digits present
Detailed Comments : PX_LCPN, PX_CDPN_OCTET3 and PX_CPN are test suite parameters			

Structured Type Constraint Declaration			
Constraint Name : CDPN_PSTN			
Structured Type : CDPN			
Derivation Path :			
Encoding Variation :			
Comments : Sent called party number for a PSTN call			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cdpn_i	ID_CDPN		Identifier
cdpn_l	PX_PSTN_LCPN		Length present
cdpn_e3_npi	PX_PSTN_CDPN_OCTET3		Type of number and Numbering plan identification present
cdpn_e4_nd	CONCAT(PX_PSTN_CPN_PART1, PX_PSTN_CPN_PART2)		Number digits present
Detailed Comments : PX_PSTN_LCPN PX_PSTN_CDPN_OCTET3 and PX_PSTN_CPN are test suite parameters			

Structured Type Constraint Declaration			
Constraint Name : CDPN_PSTN_PART1			
Structured Type : CDPN			
Derivation Path :			
Encoding Variation :			
Comments : Sent partial called party number for a PSTN call			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cdpn_i	ID_CDPN		Identifier
cdpn_l	PX_PSTN_LCPN1		Length present
cdpn_e3_npi	PX_PSTN_CDPN_OCTET3		Type of number and Numbering plan identification present
cdpn_e4_nd	PX_PSTN_CPN_PART1		Number digits present
Detailed Comments : PX_PSTN_LCPN PX_PSTN_CDPN_OCTET3 and PX_PSTN_CPN are test suite parameters			

Structured Type Constraint Declaration			
Constraint Name : CDPN_PSTN_PART2			
Structured Type : CDPN			
Derivation Path :			
Encoding Variation :			
Comments : Sent partial called party number for a PSTN call			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cdpn_i	ID_CDPN		Identifier
cdpn_l	PX_PSTN_LCPN2		Length present
cdpn_e3_npi	PX_PSTN_CDPN_OCTET3		Type of number and Numbering plan identification present
cdpn_e4_nd	PX_PSTN_CPN_PART2		Number digits present
Detailed Comments : PX_PSTN_LCPN PX_PSTN_CDPN_OCTET3 and PX_PSTN_CPN are test suite parameters			

Structured Type Constraint Declaration			
Constraint Name : CHIb_R			
Structured Type : CHI			
Derivation Path :			
Encoding Variation :			
Comments : Receive constraint for basic access with "don’t care’ values			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’000?0’B		(1)
chi_e3_cs	?		Channel selection present
chi_e4_csct	−		Not present
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
Detailed Comments : (1) Interface implicitly identified, basic interface, any value for the preferred/exclusive bit,the channel identified is not the D−channel			

Structured Type Constraint Declaration			
Constraint Name : CHIb_ANY_R			
Structured Type : CHI			
Derivation Path :			
Encoding Variation :			
Comments : Receive constraint for basic access indicating "any channel"			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’000?0’B		(1)
chi_e3_cs	’11’B		Any channel
chi_e4_csct	−		Not present
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
Detailed Comments : (1) Interface implicitly identified, basic interface, any value for the preferred/exclusive bit, the channel identified is not the D−channel			

Structured Type Constraint Declaration			
Constraint Name : CHIb_S(BCH: BITSTRING)			
Structured Type : CHI			
Derivation Path :			
Encoding Variation :			
Comments : Send constraint for basic access with parametrized channel selection			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’00010’B		(1)
chi_e3_cs	BCH		Parametrized channel selection
chi_e4_csct	−		Not present
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
Detailed Comments : (1) Interface implicitly identified, basic interface, exclusive: only the indicated channel is acceptable, the channel identified is not the D−channel			

Structured Type Constraint Declaration			
Constraint Name : CHIb_ANY_S			
Structured Type : CHI			
Derivation Path :			
Encoding Variation :			
Comments : Sent constraint for basic access indicating "any channel"			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’00000’B		(1)
chi_e3_cs	’11’B		Any channel
chi_e4_csct	−		Not present
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
Detailed Comments : (1) Interface implicitly identified, basic interface, indicated channel is preferred, the channel identified is not the D−channel			

Structured Type Constraint Declaration			
Constraint Name : CHIp_R			
Structured Type : CHI			
Derivation Path :			
Encoding Variation :			
Comments : Receive constraint for primary rate access with "don’t care’ values			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000011’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’010?0’B		(1)
chi_e3_cs	’01’B		channel as indicated
chi_e4_csct	’10000011’B		(2)
chi_e5_eb	’1’B		Extension bit present
chi_e5_cn	?		Channel number present
Detailed Comments : (1) Interface implicitly identified, other interface, any value for the preferred/exclusive bit,the channel identified is not the D−channel (2) CCITT standardized coding, channel(s) is/are indicated by the number(s) in the follwing octet(s), B−channel units			

Structured Type Constraint Declaration			
Constraint Name : CHIp_ANY_R			
Structured Type : CHI			
Derivation Path :			
Encoding Variation :			
Comments : Receive constraint for primary rate access indicating "any channel"			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’010?0’B		(1)
chi_e3_cs	’11’B		Any channel
chi_e4_csct	−		Not present
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
Detailed Comments : (1) Interface implicitly identified, other interface, any value for the preferred/exclusive bit, the channel identified is not the D−channel			

Structured Type Constraint Declaration			
Constraint Name : CHIp_S(BCH: BITSTRING)			
Structured Type : CHI			
Derivation Path :			
Encoding Variation :			
Comments : Send constraint for primary rate access with parametrized channel number			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’01010’B		(1)
chi_e3_cs	’01’B		Channel as indicated
chi_e4_csct	’10000011’B		(2)
chi_e5_eb	’1’B		Extension bit present
chi_e5_cn	BCH		Parametrized channel number
Detailed Comments : (1) Interface implicitly identified, other interface, exclusive: only the indicated channel is acceptable, the channel identified is not the D−channel (2) CCITT standardized coding, channel(s) is/are indicated by the number(s) in the follwing octet(s), B−channel units			

Structured Type Constraint Declaration			
Constraint Name : CHIp_ANY_S			
Structured Type : CHI			
Derivation Path :			
Encoding Variation :			
Comments : Send constraint for primary rate access indicating "any channel"			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’01000’B		(1)
chi_e3_cs	’11’B		Any channel
chi_e4_csct	−		Not present
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
Detailed Comments : (1) Interface implicitly identified, other interface, indicated channel is preferred, the channel identified is not the D−channel			

Structured Type Constraint Declaration			
Constraint Name : CHI_RSb_R			
Structured Type : CHI_RS			
Derivation Path :			
Encoding Variation :			
Comments : Receive constraint for basic access with "don’t care’ values			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’000?0’B		(1)
chi_e3_cs	?		Channel selection present
chi_e4_csct	−		Not present
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
chi_e6_eb	−		Not present
chi_e6_cn	−		Not present
chi_cn	−		Not present
Detailed Comments : (1) Interface implicitly identified, basic interface, any value for the preferred/exclusive bit,the channel identified is not the D−channel			

Structured Type Constraint Declaration

Constraint Name : CHI_RSp_R
Structured Type : CHI_RS
Derivation Path :
Encoding Variation :
Comments : Receive constraint for primary rate access with "don’t care’ values

Element Name	Element Value	Element Encoding	Comments
chi_i	ID_CHI		Identifier
chi_l	?		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’010?0’B		(1)
chi_e3_cs	’01’B		channel as indicated
chi_e4_csct	’10000011’B		(2)
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
chi_e6_eb	−		Not present
chi_e6_cn	−		Not present
chi_cn	?		Channel number present

Detailed Comments : (1) Interface implicitly identified, other interface, any value for the preferred/exclusive bit,the channel identified is not the D−channel
(2) CCITT standardized coding, channel(s) is/are indicated by the number(s) in the follwing octet(s), B−channel units

Structured Type Constraint Declaration			
Constraint Name : CHI_RSb_S(BCH: BITSTRING)			
Structured Type : CHI_RS			
Derivation Path :			
Encoding Variation :			
Comments : Send constraint for basic access with parametrized channel selection			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	’00000001’B		Length value present
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’00010’B		(1)
chi_e3_cs	BCH		Parametrized channel selection
chi_e4_csct	−		Not present
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
chi_e6_eb	−		Not present
chi_e6_cn	−		Not present
chi_cn	−		Not present
Detailed Comments : (1) Interface implicitly identified, basic interface, exclusive: only the indicated channel is acceptable, the channel identified is not the D−channel			

Structured Type Constraint Declaration			
Constraint Name : CHI_RSp_S(BCH: OCTETSTRING; LENGTH: BITSTRING)			
Structured Type : CHI_RS			
Derivation Path :			
Encoding Variation :			
Comments : Send constraint for primary rate access with parametrized channel number			
Element Name	**Element Value**	**Element Encoding**	**Comments**
chi_i	ID_CHI		Identifier
chi_l	LENGTH		Parametrized length value
chi_e3_eb	’1’B		Extension bit present
chi_e3_int	’01010’B		(1)
chi_e3_cs	’01’B		Channel as indicated
chi_e4_csct	’10000011’B		(2)
chi_e5_eb	−		Not present
chi_e5_cn	−		Not present
chi_e6_eb	−		Not present
chi_e6_cn	−		Not present
chi_cn	BCH		Parametrized channel number
Detailed Comments : (1) Interface implicitly identified, other interface, exclusive: only the indicated channel is acceptable, the channel identified is not the D−channel (2) CCITT standardized coding, channel(s) is/are indicated by the number(s) in the follwing octet(s), B−channel units			

Structured Type Constraint Declaration			
Constraint Name : CR1(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
Structured Type : CR			
Derivation Path :			
Encoding Variation :			
Comments : Constraint for sending and receiving			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cr_l1	’0000’B		Length value, bits 8 − 5
cr_l2	PX_CR_LENGTH		Length value, bits 4 − 1 (1)
cr_f	INT_TO_BIT(FLAG,1)		Parametrized flag
cr_r	CALL_REF		Parametrized value
Detailed Comments : (1) PX_CR_LENGTH is a test suite parameter.			

Structured Type Constraint Declaration			
Constraint Name : CR_R			
Structured Type : CR			
Derivation Path :			
Encoding Variation :			
Comments : Receive constraint for SETUP message with any call reference value			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cr_l1	’0000’B		Length value, bits 8 − 5
cr_l2	PX_CR_LENGTH		Length value, bits 4 − 1 (1)
cr_f	’0’B		Originator
cr_r	?		Call reference value present
Detailed Comments : (1) PX_CR_LENGTH is a test suite parameter.			

Structured Type Constraint Declaration			
Constraint Name : CST1(CST_VAL: INTEGER)			
Structured Type : CST			
Derivation Path :			
Encoding Variation :			
Comments : Constraint with a parametrised Call state value used for sending and receiving.			
Element Name	**Element Value**	**Element Encoding**	**Comments**
cst_i	ID_CST		Identifier
cst_l	’00000001’B		Length present
cst_cs	’00’B		CCITT standardized coding.
cst_csv	INT_TO_BIT(CST_VAL, 6)		Parametrized call state value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : HLC_TELEPHONY			
Structured Type : HLC			
Derivation Path :			
Encoding Variation :			
Comments : High layer compatibility with its high layer charcteristics identification field set to telephony.			
Element Name	**Element Value**	**Element Encoding**	**Comments**
hlc_i	ID_HLC		Identifier
hlc_l	’02’O		Length present
hlc_e3	’91’O		CCITT coding
hlc_e4_eb	’1’B		Extension bit present
hlc_e4_id	’0000001’B		High layer character. id.
hlc_e4a	−		Capability set of initial channel of H.221
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : HLC_ic (HLC_ID:HLC_ID_LIST)			
Structured Type : HLC			
Derivation Path :			
Encoding Variation :			
Comments : High layer compatibility with its high layer characteristics identification field set to videotelephony_ic, videoconferencing_ic or audiographic conferncing_ic ie. containing an extended audiovisual characteristics identification field set to "Capability set of initial channel of H.221".			
Element Name	**Element Value**	**Element Encoding**	**Comments**
hlc_i	ID_HLC		Identifier
hlc_l	’03’O		Length present
hlc_e3	’91’O		CCITT coding
hlc_e4_eb	’0’B		Extension bit present
hlc_e4_id	HLC_ID		High layer character. id.
hlc_e4a	’81’O		Capability set of initial channel of H.221
Detailed Comments : "videotelephony", ’videoconferencing’, ’audiographic conferencing’ and its’ extension code values are defined only ETS 300 403−1.			

Structured Type Constraint Declaration			
Constraint Name : HLC_nex (HLC_ID:HLC_ID_LIST)			
Structured Type : HLC			
Derivation Path :			
Encoding Variation :			
Comments : High layer compatibility with its high layer charcteristics identification field set to videotelephony_nex, videoconferencing_nex or audiographic conferncing_nex ie. not containing an extended audiovisual characteristics identification field.			
Element Name	**Element Value**	**Element Encoding**	**Comments**
hlc_i	ID_HLC		Identifier
hlc_l	’02’O		Length present
hlc_e3	’91’O		CCITT coding
hlc_e4_eb	’1’B		Extension bit present
hlc_e4_id	HLC_ID		High layer character. id.
hlc_e4a	−		Omitted
Detailed Comments : "videotelephony", ’videoconferencing’ and ’audiographic conferencing’ is defined only ETS 300 403−1.			

Structured Type Constraint Declaration			
Constraint Name : HLC_sc (HLC_ID:HLC_ID_LIST)			
Structured Type : HLC			
Derivation Path :			
Encoding Variation :			
Comments : High layer compatibility with its high layer characteristics identification field set to videotelephony_sc, videoconferencing_sc or audiographic conferncing_sc ie. containing an extended audiovisual characteristics identification field set to "Capability set of subsequent channel of H.221".			
Element Name	**Element Value**	**Element Encoding**	**Comments**
hlc_i	ID_HLC		Identifier
hlc_l	’03’O		Length present
hlc_e3	’91’O		CCITT coding
hlc_e4_eb	’0’B		Extension bit present
hlc_e4_id	HLC_ID		High layer character. id.
hlc_e4a	’82’O		Capability set of subsequent channel of H.221
Detailed Comments : "videotelephony", ’videoconferencing’, ’audiographic conferencing’ and its’ extension code values are defined only ETS 300 403−1.			

Structured Type Constraint Declaration			
Constraint Name : NOID_R			
Structured Type : NOID			
Derivation Path :			
Encoding Variation :			
Comments : Received constraint containing any notification description			
Element Name	**Element Value**	**Element Encoding**	**Comments**
noid_i	ID_NOID		Identifier
noid_l	?		Length present
noid_nd	?		Notification description present
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : PI1_R			
Structured Type : PI			
Derivation Path :			
Encoding Variation :			
Comments : Receive Progress indicator IE with progress description = no. 1			
Element Name	**Element Value**	**Element Encoding**	**Comments**
pi_i	ID_PI		Identifier
pi_l	’00000010’B		Length present
pi_e3_loc	?		Coding standard, location
pi_e4_eb	’1’B		Extension bit
pi_e4_pd	’0000001’B		(1)
Detailed Comments : (1) call is not end−to−end ISDN, further call progress information may be available in−band			

Structured Type Constraint Declaration			
Constraint Name : PI5_S			
Structured Type : PI			
Derivation Path :			
Encoding Variation :			
Comments : Send Progress indicator IE with progress description = no. 5			
Element Name	**Element Value**	**Element Encoding**	**Comments**
pi_i	ID_PI		Identifier
pi_l	’00000010’B		Length present
pi_e3_loc	’10000010’B		Coding standard, location
pi_e4_eb	’1’B		Extension bit
pi_e4_pd	’0000101’B		(1)
Detailed Comments : (1) Interworking has occured and has resulted in a telecommunications service change			

Structured Type Constraint Declaration			
Constraint Name : PI5_R			
Structured Type : PI			
Derivation Path :			
Encoding Variation :			
Comments : Receive Progress indicator IE with progress description = no. 5			
Element Name	**Element Value**	**Element Encoding**	**Comments**
pi_i	ID_PI		Identifier
pi_l	’00000010’B		Length present
pi_e3_loc	?		Coding standard, location
pi_e4_eb	’1’B		Extension bit
pi_e4_pd	’0000101’B		(1)
Detailed Comments : (1) Interworking has occured and has resulted in a telecommunications service change			

Structured Type Constraint Declaration			
Constraint Name : PI8_R			
Structured Type : PI			
Derivation Path :			
Encoding Variation :			
Comments : Receive Progress indicator IE with progress description = no. 8			
Element Name	**Element Value**	**Element Encoding**	**Comments**
pi_i	ID_PI		Identifier
pi_l	’00000010’B		Length present
pi_e3_loc	?		Coding standard, location
pi_e4_eb	’1’B		Extension bit present
pi_e4_pd	’0001000’B		(1)
Detailed Comments : (1) In−band information or appropriate pattern now available.			

Structured Type Constraint Declaration			
Constraint Name : RI_R(CLASS_VAL: INTEGER)			
Structured Type : RI			
Derivation Path :			
Encoding Variation :			
Comments : Constraint constraint containing Restart Indicator description			
Element Name	**Element Value**	**Element Encoding**	**Comments**
ri_i	ID_RI		Identifier
ri_l	’00000001’B		Length present
ri_sp	’10000’B		Spare value
ri_cl	INT_TO_BIT(CLASS_VAL,3)		Parametrized class value
Detailed Comments :			

Structured Type Constraint Declaration			
Constraint Name : RI_S(CLASS_VAL: INTEGER)			
Structured Type : RI			
Derivation Path :			
Encoding Variation :			
Comments : Constraint with parametrized class value used for sending Restart Indicator.			
Element Name	**Element Value**	**Element Encoding**	**Comments**
ri_i	ID_RI		Identifier
ri_l	’00000001’B		Length present
ri_sp	’10000’B		Spare value
ri_cl	INT_TO_BIT(CLASS_VAL,3)		Parametrized class value
Detailed Comments :			

ASP Constraint Declaration		
Constraint Name : Ms(PARAM: PDU)		
ASP Type : DL_DAT_RQ		
Derivation Path :		
Comments : ASP to request the sending of layer 3 D−channel messages.		
Parameter Name	**Parameter Value**	**Comments**
mun	PARAM	PDU to be sent
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Mr(PARAM: PDU)		
ASP Type : DL_DAT_IN		
Derivation Path :		
Comments : ASP to indicate the receipt of layer 3 messages.		
Parameter Name	**Parameter Value**	**Comments**
mun	PARAM	PDU to be received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : RSr(PARAM: RESTART_PDU)		
ASP Type : DL_DAT_IN_RESTART		
Derivation Path :		
Comments : ASP to indicate the receipt of RESTART messages.		
Parameter Name	**Parameter Value**	**Comments**
mun	PARAM	RESTART to be received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : SBr(PARAM: SETUP_PDU)		
ASP Type : DL_UDAT_IN_SETUP		
Derivation Path :		
Comments : ASP to indicate the receipt of SETUP messages via the broadcast data link.		
Parameter Name	**Parameter Value**	**Comments**
mun	PARAM	SETUP to be received
Detailed Comments :		

ASP Constraint Declaration		
Constraint Name : Sr(PARAM: SETUP_PDU)		
ASP Type : DL_DAT_IN_SETUP		
Derivation Path :		
Comments : ASP to indicate the receipt of SETUP messages.		
Parameter Name	**Parameter Value**	**Comments**
mun	PARAM	SETUP to be received
Detailed Comments :		

PDU Constraint Declaration			
Constraint Name : CHECK_IN_BAND_TA			
PDU Type : DISPLAY			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Ask to the operator to check in−band tone and announcement			
Field Name	**Field Value**	**Field Encoding**	**Comments**
ACTION	"Check in band tone and announcement"		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : ANY_MSG_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : ANY_MSG_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received ANY MESSAGE PDU			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	?		
ie_list	*		
Detailed Comments : PDU with a valid CREF. Used for test cases where PDUs sent by the IUT on the PTC side must be absorbed by the tester.			

PDU Constraint Declaration			
Constraint Name : AL_PI_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; PIV : PI)			
PDU Type : ALERTING_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : ALERTING Receive PDU with progress description = PIV			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_ALERTING		
bcap	*		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	PIV		
noid	*		
dsp	*		
ronn	*		
hlc	*		
uui	*		
Detailed Comments : PDU with "don’t care" values for other fields than pi;			

PDU Constraint Declaration			
Constraint Name : AL_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : ALERTING_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : ALERTING Receive PDU with don’t care value			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_ALERTING		
bcap	*		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	*		
noid	*		
dsp	*		
ronn	*		
hlc	*		
uui	*		
Detailed Comments : PDU with "don’t care" values;			

PDU Constraint Declaration

Constraint Name : AL_SPEECH_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)

PDU Type : ALERTING_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : ALERTING Received PDU with bearer capability = "speech" whenit is present and progress description = no. 5p

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_ALERTING		
bcap	BCAP_SPEECH		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	PI5_R		
noid	*		
dsp	*		
ronn	*		
hlc	*		
uui	*		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AL_SPEECH_OPT_HLC_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST)

PDU Type : ALERTING_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : ALERTING Received PDU with bearer capability = "speech" whenit is present and progress description = no. 5p and HLC set to HLC_nex or HLC_ic or telephony or no HLC

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_ALERTING		
bcap	BCAP_SPEECH		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	PI5_R		
noid	*		
dsp	*		
ronn	*		
hlc	HLC_TELEPHONY IF_PRESENT		
uui	*		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : AL_PI_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING)
PDU Type : ALERTING_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Sent ALERTING PDU with channel identification information element

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_ALERTING		
bcap	−		
efac	−		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
ronn	−		
hlc	−		
uui	−		

Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message unless the user accepts the B−channel indicated in the SETUP message.

PDU Constraint Declaration			
Constraint Name : AL_CH_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING)			
PDU Type : ALERTING_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent ALERTING PDU with channel identification information element			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_ALERTING		
bcap	−		
efac	−		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	−		
pi	−		
noid	−		
dsp	−		
ronn	−		
hlc	−		
uui	−		
Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message unless the user accepts the B−channel indicated in the SETUP message.			

PDU Constraint Declaration

Constraint Name : AL_BCAP_PI_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING; BCAPV : BCAP)

PDU Type : ALERTING_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Sent ALERTING PDU with channel identification information element

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_ALERTING		
bcap	BCAPV		
efac	−		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
ronn	−		
hlc	−		
uui	−		

Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message unless the user accepts the B−channel indicated in the SETUP message.

PDU Constraint Declaration			
Constraint Name : AL_SPEECH_HLC_PI_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING;HLCV : HLC)			
PDU Type : ALERTING_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent ALERTING PDU with channel identification information element			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_ALERTING		
bcap	BCAP_SPEECH		
efac	−		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
ronn	−		
hlc	HLCV		
uui	−		
Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message unless the user accepts the B−channel indicated in the SETUP message.			

PDU Constraint Declaration

Constraint Name : CA_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)
PDU Type : CONNECT_ACK_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received CONNECT ACK PDU

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT_ACK		
efac	*		
fac	*		
noid	*		
dsp	*		

Detailed Comments : PDU with "don’t care" values.

PDU Constraint Declaration

Constraint Name : CN_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)
PDU Type : CONNECT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received CONNECT PDU with don’t care values

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	*		
efac	*		
chi	–		
fac	*		
pi	*		
noid	*		
dsp	*		
dati	*		
codn	*		
cods	*		
ronn	*		
llc	*		
hlc	*		
uui	*		

Detailed Comments : PDU with "don’t care" values;

PDU Constraint Declaration

Constraint Name : CN_PI_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; PIV : PI)
PDU Type : CONNECT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received CONNECT PDU with progress description = PIV

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	*		
efac	*		
chi	–		
fac	*		
pi	PIV		
noid	*		
dsp	*		
dati	*		
codn	*		
cods	*		
ronn	*		
llc	*		
hlc	*		
uui	*		

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : CN_BCAP_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCAPV : BCAP)			
PDU Type : CONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received CONNECT PDU with a parametrized bearer capability			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	BCAPV		
efac	*		
chi	–		
fac	*		
pi	*		
noid	*		
dsp	*		
dati	*		
codn	*		
cods	*		
ronn	*		
llc	*		
hlc	*		
uui	*		
Detailed Comments : PDU with the Bearer capability information element and with "don’t care" values;			

PDU Constraint Declaration

Constraint Name : CN_BCAP_HLC_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCAPV : BCAP; HLCV : HLC)

PDU Type : CONNECT_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Received CONNECT PDU with a parametrized bearer capability and high layer compatibility

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	BCAPV		
efac	*		
chi	–		
fac	*		
pi	*		
noid	*		
dsp	*		
dati	*		
codn	*		
cods	*		
ronn	*		
llc	*		
hlc	HLCV		
uui	*		

Detailed Comments : PDU with the Bearer capability information element, high layer compatibility and with "don’t care" values;

PDU Constraint Declaration

Constraint Name : CN_BCAP_NoHLC_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCAPV : BCAP)

PDU Type : CONNECT_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Received CONNECT PDU with a parametrized bearer capability and no high layer compatibility

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	BCAPV		
efac	*		
chi	–		
fac	*		
pi	*		
noid	*		
dsp	*		
dati	*		
codn	*		
cods	*		
ronn	*		
llc	*		
hlc	–		
uui	*		

Detailed Comments : PDU with the Bearer capability information element and with "don’t care" values;

PDU Constraint Declaration			
Constraint Name : CN_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : CONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent CONNECT PDU containing no BCAP or HLC			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	−		
efac	−		
chi	−		
fac	−		
pi	−		
noid	−		
dsp	−		
dati	−		
codn	−		
cods	−		
ronn	−		
llc	−		
hlc	−		
uui	−		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration

Constraint Name : CN_BCAP_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCAPV : BCAP)
PDU Type : CONNECT_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Sent CONNECT PDU containing BCAP as parameter

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	BCAPV		
efac	–		
chi	–		
fac	–		
pi	–		
noid	–		
dsp	–		
dati	–		
codn	–		
cods	–		
ronn	–		
llc	–		
hlc	–		
uui	–		

Detailed Comments : PDU without optional information elements.

PDU Constraint Declaration			
Constraint Name : CN_HLC_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; HLCV : HLC)			
PDU Type : CONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent CONNECT PDU containing a BC=BCAPV and HLC=HLCV			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	−		
efac	−		
chi	−		
fac	−		
pi	−		
noid	−		
dsp	−		
dati	−		
codn	−		
cods	−		
ronn	−		
llc	−		
hlc	HLCV		
uui	−		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : CN_BCAP_HLC_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCAPV : BCAP; HLCV : HLC)			
PDU Type : CONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent CONNECT PDU containing a BC=BCAPV and HLC=HLCV			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CONNECT		
bcap	BCAPV		
efac	−		
chi	−		
fac	−		
pi	−		
noid	−		
dsp	−		
dati	−		
codn	−		
cods	−		
ronn	−		
llc	−		
hlc	HLCV		
uui	−		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : CP_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : CALL_PROC_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received CALL PROCEEDING PDU with "don't care" values			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CALL_PROC		
bcap	*		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	*		
noid	*		
dsp	*		
hlc	*		
Detailed Comments : PDU with "don't care" values;			

PDU Constraint Declaration			
Constraint Name : CP_PI_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; PIV : PI)			
PDU Type : CALL_PROC_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received CALL PROCEEDING PDU with progress description = PIV			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CALL_PROC		
bcap	*		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	PIV		
noid	*		
dsp	*		
hlc	*		
Detailed Comments :			

PDU Constraint Declaration

Constraint Name : CP_SPEECH_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)

PDU Type : CALL_PROC_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Received CALL PROCEEDING PDU with bearer capability ="speech" when it is present and progress description = no. 5

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CALL_PROC		
bcap	BCAP_SPEECH		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	PI5_R		
noid	*		
dsp	*		
hlc	*		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CP_SPEECH_OPT_HLC_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST)

PDU Type : CALL_PROC_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Received Call Proceeding PDU with bearer capability ="speech" when it is present and progress description = no. 5p and HLC set to HLC_nex or HLC_ic or telephony or no HLC

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CALL_PROC		
bcap	BCAP_SPEECH		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	PI5_R		
noid	*		
dsp	*		
hlc	HLC_TELEPHONY IF_PRESENT		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : CP_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING)
PDU Type : CALL_PROC_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Sent CALL PROCEEDING PDU without optional information elements

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CALL_PROC		
bcap	−		
efac	−		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	−		
pi	−		
noid	−		
dsp	−		
hlc	−		

Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message unless the user accepts the B−channel indicated in the SETUP message.

PDU Constraint Declaration			
Constraint Name : CP_PI_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING)			
PDU Type : CALL_PROC_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send CALL PROCEEDING PDU with PI=#5			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CALL_PROC		
bcap	−		
efac	−		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
hlc	−		
Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message unless the user accepts the B−channel indicated in the SETUP message.			

PDU Constraint Declaration			
Constraint Name : CP_BCAP_PI_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING; BCAPV : BCAP)			
PDU Type : CALL_PROC_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send CALL PROCEEDING PDU with PI=#5 and BCAP			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CALL_PROC		
bcap	BCAPV		
efac	−		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
hlc	−		
Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message unless the user accepts the B−channel indicated in the SETUP message.			

PDU Constraint Declaration			
Constraint Name : CP_SPEECH_HLC_PI_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING; HLCV : HLC)			
PDU Type : CALL_PROC_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send CALL PROCEEDING PDU with PI=#5, BCAP=SPEECH and HLCV			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_CALL_PROC		
bcap	BCAP_SPEECH		
efac	−		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
hlc	HLCV		
Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message unless the user accepts the B−channel indicated in the SETUP message.			

PDU Constraint Declaration			
Constraint Name : DI_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : DISCONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received DISCONNECT PDU with with "don’t care" values			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_DISCONNECT		
cau	*		
efac	*		
fac	*		
pi	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don’t care" values.			

PDU Constraint Declaration			
Constraint Name : DI_PI_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; PIV : PI)			
PDU Type : DISCONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received DISCONNECT PDU with progress description = PIV			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_DISCONNECT		
cau	?		
efac	*		
fac	*		
pi	PIV		
noid	*		
dsp	*		
uui	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : DI_CAU_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; CVAL: INTEGER)			
PDU Type : DISCONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received DISCONNECT PDU with cause value CVAL			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_DISCONNECT		
cau	CAU_R(CVAL)		
efac	*		
fac	*		
pi	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don’t care" values and parametrized cause value.			

PDU Constraint Declaration			
Constraint Name : DI_ANY_CAU_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : DISCONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received DISCONNECT PDU with any cause value			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_DISCONNECT		
cau	CAU_ANY_R		
efac	*		
fac	*		
pi	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don’t care" values.			

PDU Constraint Declaration			
Constraint Name : DI_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; CVAL: INTEGER)			
PDU Type : DISCONNECT_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent Disconnect PDU with cause value CVAL			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_DISCONNECT		
cau	CAU_S(CVAL)		
efac	−		
fac	−		
pi	−		
noid	−		
dsp	−		
uui	−		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : GFP_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : GFP_MSG_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received Generic Function Protocol PDU			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	?		
ie_list	*		
Detailed Comments : PDU with a valid CREF. Used for test cases where PDUs must be absorbed by the tester.			

PDU Constraint Declaration			
Constraint Name : IN_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : INFORMATION_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received INFORMATION PDU with "don’t care" values			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_INFORMATION		
sci	*		
cau	*		
efac	*		
fac	*		
noid	*		
dsp	*		
kpf	*		
cdpn	*		
ronn	*		
Detailed Comments : PDU with "don’t care" values;			

PDU Constraint Declaration

Constraint Name : IN_PSTN_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)

PDU Type : INFORMATION_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Sent INFORMATION PDU with the second (remaining) part of PSTN called party information

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_INFORMATION		
sci	SCI_VALUE		
cau	−		
efac	−		
fac	−		
noid	−		
dsp	−		
kpf	−		
cdpn	CDPN_PSTN_PART2		
ronn	−		

Detailed Comments : INFORMATION message with the second (remaining) part of the PSTN called party information and with the Sending complete information element.

PDU Constraint Declaration			
Constraint Name : PG_PI_S(FLAG:INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : PROGRESS_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PROGRESS PDU with progress description #5			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_PROGRESS		
bcap	−		
cau	−		
efac	−		
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
ronn	−		
hlc	−		
uui	−		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PG_BCAP_PI_S(FLAG:INTEGER; CALL_REF: CALL_REF_TYPE; BCAPV : BCAP)			
PDU Type : PROGRESS_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PROGRESS PDU with progress description #5			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_PROGRESS		
bcap	BCAPV		
cau	−		
efac	−		
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
ronn	−		
hlc	−		
uui	−		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : PG_SPEECH_HLC_PI_S(FLAG:INTEGER; CALL_REF: CALL_REF_TYPE; HLCV : HLC)			
PDU Type : PROGRESS_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send PROGRESS PDU with progress description #5			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_PROGRESS		
bcap	BCAP_SPEECH		
cau	−		
efac	−		
fac	−		
pi	PI5_S		
noid	−		
dsp	−		
ronn	−		
hlc	HLCV		
uui	−		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : NO_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : NOTIFY_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received NOTIFY PDU with "don’t care" values			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_NOTIFY		
noid	NOID_R		
dsp	*		
ronn	*		
Detailed Comments : PDU with "don’t care" values in noid.			

PDU Constraint Declaration

Constraint Name : PG_PI_R(FLAG:INTEGER; CALL_REF: CALL_REF_TYPE; PIV : PI)
PDU Type : PROGRESS_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received PROGRESS PDU with progress description = PIV

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_PROGRESS		
bcap	*		
cau	*		
efac	*		
fac	*		
pi	PIV		
noid	*		
dsp	*		
ronn	*		
hlc	*		
uui	*		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PG_SPEECH_R(FLAG:INTEGER; CALL_REF: CALL_REF_TYPE)

PDU Type : PROGRESS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Received PROGRESS PDU with bearer capability ="speech" when it is present and progress description = no. 5

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_PROGRESS		
bcap	BCAP_SPEECH		
cau	−		
efac	*		
fac	*		
pi	PI5_R		
noid	*		
dsp	*		
ronn	*		
hlc	*		
uui	*		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : PG_SPEECH_OPT_HLC_R(FLAG:INTEGER; CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST)

PDU Type : PROGRESS_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Received PROGRESS PDU with bearer capability ="speech" when it is present and progress description = no. 5 and HLC set to HLC_nex or HLC_ic or telephony or no HLC

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_PROGRESS		
bcap	BCAP_SPEECH		
cau	−		
efac	*		
fac	*		
pi	PI5_R		
noid	*		
dsp	*		
ronn	*		
hlc	HLC_TELEPHONY IF_PRESENT		
uui	*		

Detailed Comments :

PDU Constraint Declaration			
Constraint Name : RC_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : RELEASE_COM_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received RELEASE COMPLETE PDU with "don’t care" values			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RELEASE_COM		
cau	*		
efac	*		
fac	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don’t care" values.			

PDU Constraint Declaration			
Constraint Name : RC_CAU_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; CVAL: INTEGER)			
PDU Type : RELEASE_COM_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received RELEASE COMPLETE PDU with a cause value CVAL			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RELEASE_COM		
cau	CAU_R(CVAL)		
efac	*		
fac	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don’t care" values and parametrized cause value.			

PDU Constraint Declaration			
Constraint Name : RC_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : RELEASE_COM_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send RELEASE COMPLETE PDU when it is not the first RELEASE message			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RELEASE_COM		
cau	–		
efac	–		
fac	–		
noid	–		
dsp	–		
uui	–		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : RC_CAU_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; CVAL: INTEGER)			
PDU Type : RELEASE_COM_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Send RELEASE COMPLETE PDU with a cause value CVAL			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RELEASE_COM		
cau	CAU_S(CVAL)		
efac	–		
fac	–		
noid	–		
dsp	–		
uui	–		
Detailed Comments : PDU with parametrized cause value.			

PDU Constraint Declaration			
Constraint Name : RL_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : RELEASE_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received RELEASE PDU with "don’t care" values			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RELEASE		
cau	*		
efac	*		
fac	*		
noid	*		
dsp	*		
uui	*		
Detailed Comments : PDU with "don’t care" values.			

PDU Constraint Declaration			
Constraint Name : RL_S(FLAG:INTEGER; CALL_REF: CALL_REF_TYPE; CVAL: INTEGER)			
PDU Type : RELEASE_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent RELEASE PDU with optional information element cause passed as parameter			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RELEASE		
cau	CAU_S(CVAL)		
efac	–		
fac	–		
noid	–		
dsp	–		
uui	–		
Detailed Comments : PDU with optional information element cau.			

PDU Constraint Declaration			
Constraint Name : RSA_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; CLASS_VAL: INTEGER)			
PDU Type : RESTART_ACK_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent RESTART ACKNOWLEDGE PDU with parametrized class value used for sending Restart Indicator.			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RESTART_ACK		
chi	–		
chi_rs	–		
dsp	–		
ri	RI_S(CLASS_VAL)		
Detailed Comments : PDU that indicates "All interfaces" or "Single interface".			

PDU Constraint Declaration			
Constraint Name : RSA_CHN_S (FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING; BCH_RS: OCTETSTRING; LENGTH: BITSTRING; CLASS_VAL: INTEGER)			
PDU Type : RESTART_ACK_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent RESTART ACKNOWLEDGE PDU with parametrized class value used for sending Restart Indicator and channel indicator.			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RESTART_ACK		
chi	–		
chi_rs	ASSIGN_CHI_RS(CHI_RSb_S(BCH), CHI_RSp_S(BCH_RS,LENGTH), PC_BASIC)		
dsp	–		
ri	RI_S(CLASS_VAL)		
Detailed Comments : CHI mandatory if RI indicates "Indicated channels".			

PDU Constraint Declaration			
Constraint Name : RST_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; CLASS_VAL: INTEGER)			
PDU Type : RESTART_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received RESTART PDU that indicates "All interfaces" or "Single interface"			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RESTART		
chi	–		
chi_rs	–		
dsp	*		
ri	RI_R(CLASS_VAL)		
Detailed Comments : PDU without optional parameters; PDU that indicates "All interfaces" or "Single interface".			

PDU Constraint Declaration			
Constraint Name : RST_CHN_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; CLASS_VAL: INTEGER)			
PDU Type : RESTART_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received RESTART PDU that indicates "Indicated channels"			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_RESTART		
chi	–		
chi_rs	ASSIGN_CHI_RS(CHI_RSb_R, CHI_RSp_R, PC_BASIC)		
dsp	*		
ri	RI_R(CLASS_VAL)		
Detailed Comments : This PDU should only be received, if ri indicates "Indicated channels".			

PDU Constraint Declaration			
Constraint Name : SQ_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : STATUS_ENQ_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received STATUS ENQUIRY PDU			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_STATUS_ENQ		
dsp	*		
Detailed Comments : PDU with "don’t care" values.			

PDU Constraint Declaration			
Constraint Name : SQ_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : STATUS_ENQ_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent STATIS ENQUIRY PDU			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_STATUS_ENQ		
dsp	–		
Detailed Comments : PDU without optional information elements.			

PDU Constraint Declaration			
Constraint Name : ST_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; CVAL, CST_VAL: INTEGER)			
PDU Type : STATUS_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Receive STATUS PDU with a cause value passed as parameter			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_STATUS		
cau	CAU_R(CVAL)		
cst	CST1(CST_VAL)		
dsp	*		
Detailed Comments : PDU with "don’t care" values.			

PDU Constraint Declaration			
Constraint Name : SUA_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE)			
PDU Type : SETUP_ACK_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received SETUP ACKNOWLEDGE PDU with "don’t care" values			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_SETUP_ACK		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC)		
fac	*		
pi	*		
noid	*		
dsp	*		
Detailed Comments : PDU with "don’t care" values.			

PDU Constraint Declaration			
Constraint Name : SUA_PI_R(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; PIV : PI)			
PDU Type : SETUP_ACK_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Received SETUP ACKNOWLEDGE PDU with progress indicator IE with progress description = PIV			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_SETUP_ACK		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC)		
fac	*		
pi	PIV		
noid	*		
dsp	*		
Detailed Comments :			

PDU Constraint Declaration			
Constraint Name : SUA_S(FLAG: INTEGER; CALL_REF: CALL_REF_TYPE; BCH: BITSTRING)			
PDU Type : SETUP_ACK_PDU			
Derivation Path :			
Encoding Rule Name :			
Encoding Variation :			
Comments : Sent SETUP ACKNOWLEDGE PDU without optional information elements			
Field Name	**Field Value**	**Field Encoding**	**Comments**
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(FLAG,CALL_REF)		
mt	MT_SETUP_ACK		
efac	–		
chi	ASSIGN_CHI(CHIb_S(BCH),CHIp_S(BCH), PC_BASIC)		(1)
fac	–		
pi	–		
noid	–		
dsp	–		
Detailed Comments : (1) The Channel identification information element is mandatory in messages sent as a first response to a SETUP message.			

PDU Constraint Declaration

Constraint Name : SU_ANY_R
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Receive PDU

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_R		
bcap_2	*		
efac	*		
chi	ASSIGN_CHI(CHIb_R, CHIp_R, PC_BASIC) IF_PRESENT		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	–		
llc	*		
hlc	*		
hlc_2	*		
uui	*		

Detailed Comments : PDU with "don’t care" values.

PDU Constraint Declaration

Constraint Name : SU_CH_R(CHI_VAL:CHI)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Receive PDU

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_R		
bcap_2	*		
efac	*		
chi	CHI_VAL		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	–		
llc	*		
hlc	*		
hlc_2	*		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_CHs_R(CHI_b, CHI_p: CHI)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Receive PDU

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_R		
bcap_2	*		
efac	*		
chi	ASSIGN_CHI(CHI_b,CHI_p, PC_BASIC)		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	–		
llc	*		
hlc	*		
hlc_2	*		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_FBA_7kHz_R(CHI_b, CHI_p: CHI)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from network which allows fallback for a 7 kHz telephony call

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	*		
chi	ASSIGN_CHI(CHI_b,CHI_p, PC_BASIC)		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_FBA_CH_7kHz_R(CHI_VAL: CHI)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from network which allows fallback for a 7 kHz telephony call and with one channel CHI_VAL

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	*		
chi	CHI_VAL		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	*		

Detailed Comments : PDU with "don’t care" values used as base constraint for all SETUP messages to be received.

PDU Constraint Declaration

Constraint Name : SU_FBA_R(CHI_b, CHI_p: CHI; HLC_ID:HLC_ID_LIST)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from network which allows fallback for a videotelephony, audiographic conference or videoconference call

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	*		
chi	ASSIGN_CHI(CHI_b,CHI_p, PC_BASIC)		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	HLC_ic(HLC_ID)		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_FBA_CH_R(CHI_VAL: CHI; HLC_ID:HLC_ID_LIST)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from network which allows fallback for a videotelephony, audiographic conference or videoconference call and with one channel CHI_VAL

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	*		
chi	CHI_VAL		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	HLC_ic(HLC_ID)		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_FBA_7kHz_S(CALL_REF: CALL_REF_TYPE; CALLED_NUMBER : CDPN)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Send SETUP PDU, which allows fallback, from a 7kHz terminal.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	SCI_VALUE		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CALLED_NUMBER		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBA_7kHz_NoSCI_S(CALL_REF: CALL_REF_TYPE)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Send SETUP PDU, which allows fallback, from a 7kHz terminal without any called party information.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	−		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	−		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBA_7kHz_PSTN_NoSCI_S(CALL_REF: CALL_REF_TYPE)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which allows fallback, from a 7kHz terminal with a partial called party information to a PSTN destination.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	−		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CDPN_PSTN_PART1		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBA_S(CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST; CALLED_NUMBER : CDPN)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which allows fallback, from a videotelephony terminal

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	SCI_VALUE		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CALLED_NUMBER		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	HLC_ic(HLC_ID)		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBA_NoSCI_S(CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which allows fallback, from a videotelephony terminal without any called party information.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	−		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	−		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	HLC_ic(HLC_ID)		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBA_PSTN_NoSCI_S(CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which allows fallback, from a videotelephony terminal with a partial called party information to a PSTN destination.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	−		
bcap	BCAP_SPEECH		
bcap_2	BCAP_UDITA		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CDPN_PSTN_PART1		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	HLC_ic(HLC_ID)		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBN_7kHz_R(CHI_b, CHI_p: CHI)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from network which does not allow fallback for a 7 kHz telephony call

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_UDITA		
bcap_2	−		
efac	*		
chi	ASSIGN_CHI(CHI_b,CHI_p, PC_BASIC)		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_FBN_CH_7kHz_R(CHI_VAL: CHI)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from network which does not allow fallback for a 7 kHz telephony call and with one channel CHI_VAL

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_UDITA		
bcap_2	−		
efac	*		
chi	CHI_VAL		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_FBN_R(CHI_b, CHI_p: CHI; HLC_ID:HLC_ID_LIST)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from network which does not allow fallback for a videotelephony, audiographic conference or videoconference call

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_UDITA		
bcap_2	−		
efac	*		
chi	ASSIGN_CHI(CHI_b,CHI_p, PC_BASIC)		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_ic(HLC_ID)		
hlc_2	−		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_FBN_CH_R(CHI_VAL: CHI; HLC_ID:HLC_ID_LIST)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from network which does not allow fallback for a videotelephony, audiographic conference or videoconference call and with one channel CHI_VAL

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_UDITA		
bcap_2	−		
efac	*		
chi	CHI_VAL		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_ic(HLC_ID)		
hlc_2	−		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_FBN_7kHz_S(CALL_REF: CALL_REF_TYPE; CALLED_NUMBER : CDPN)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Send SETUP PDU, which does not allow fallback, from a 7kHz terminal.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	SCI_VALUE		
bcap	BCAP_UDITA		
bcap_2	−		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CALLED_NUMBER		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBN_7kHz_NoSCI_S(CALL_REF: CALL_REF_TYPE)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which does not allow fallback, from a 7kHz terminal without any called party information.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	−		
bcap	BCAP_UDITA		
bcap_2	−		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	−		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBN_7kHz_PSTN_NoSCI_S(CALL_REF: CALL_REF_TYPE)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which does not allow fallback, from a 7kHz terminal with a partial called party information to a PSTN destination.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	−		
bcap	BCAP_UDITA		
bcap_2	−		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CDPN_PSTN_PART1		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_TELEPHONY		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBN_S(CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST; CALLED_NUMBER : CDPN)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which does not allow fallback, from a videophone terminal.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	SCI_VALUE		
bcap	BCAP_UDITA		
bcap_2	−		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CALLED_NUMBER		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_ic(HLC_ID)		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBN_NoSCI_S(CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which does not allow fallback, from a videotelephony terminal without any called party information.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	−		
bcap	BCAP_UDITA		
bcap_2	−		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	−		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_ic(HLC_ID)		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_FBN_PSTN_NoSCI_S(CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Send SETUP PDU, which does not allow fallback, from a videotelephony terminal with a partial PSTN called party information to a PSTN destination.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	−		
bcap	BCAP_UDITA		
bcap_2	−		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CDPN_PSTN_PART1		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_ic(HLC_ID)		
hlc_2	−		
uui	−		

Detailed Comments :

PDU Constraint Declaration

Constraint Name : SU_SC_R(CHI_b, CHI_p: CHI; HLC_ID:HLC_ID_LIST)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from the network to set up the additionnal channel.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_UDI		
bcap_2	−		
efac	*		
chi	ASSIGN_CHI(CHI_b,CHI_p, PC_BASIC)		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_sc(H_VTL)		
hlc_2	−		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_SC_CH_R(CHI_VAL: CHI; HLC_ID:HLC_ID_LIST)
PDU Type : SETUP_PDU
Derivation Path :
Encoding Rule Name :
Encoding Variation :
Comments : Received SETUP PDU from the network to set up the additionnal channel and with one channel CHI_VAL.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR_R		
mt	MT_SETUP		
sci	*		
bcap	BCAP_UDI		
bcap_2	−		
efac	*		
chi	CHI_VAL		
fac	*		
pi	*		
nsf	*		
noid	*		
dsp	*		
kpf	*		
cgpn	*		
cgps	*		
cdpn	*		
cdps	*		
rngn	*		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_sc(HLC_ID)		
hlc_2	−		
uui	*		

Detailed Comments : PDU with "don’t care" values;
The Channel identification information element is present.

PDU Constraint Declaration

Constraint Name : SU_SC_S(CALL_REF: CALL_REF_TYPE; HLC_ID:HLC_ID_LIST; CALLED_NUMBER : CDPN)

PDU Type : SETUP_PDU

Derivation Path :

Encoding Rule Name :

Encoding Variation :

Comments : Sent SETUP PDU to set up the additionnal channel.

Field Name	Field Value	Field Encoding	Comments
pd	PROTOCOL_DISCRIMINATOR_Q931		
cr	CR1(0,CALL_REF)		
mt	MT_SETUP		
sci	SCI_VALUE		
bcap	BCAP_UDI		
bcap_2	−		
efac	−		
chi	ASSIGN_CHI(CHIb_ANY_S,CHIp_ANY_S, PC_BASIC)		
fac	−		
pi	−		
nsf	−		
noid	−		
dsp	−		
kpf	−		
cgpn	−		
cgps	−		
cdpn	CALLED_NUMBER		
cdps	−		
rngn	−		
tns	−		
llc	−		no low layer compatibility
hlc	HLC_sc(HLC_ID)		
hlc_2	−		
uui	−		

Detailed Comments :

CM Constraint Declaration		
Constraint Name : S_SETUP		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a SETUP message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"SEND_SETUP"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : R_SETUP		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the expecting of a SETUP message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"EXPECT_SETUP"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : R_SETUP_SC		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the expecting of a SETUP message for the additional channel		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"EXPECT_SETUP2"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_ALERTING		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a ALERTING message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"SEND_ALERTING"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_CONNECT		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a CONNECT message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"SEND_CONNECT"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_DISCONNECT		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a DISCONNECT message		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"SEND_DISCONNECT"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_FBA_7kHz_SETUP		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a SETUP message for a 7 kHz call which allows fallback		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"SEND_FBA_7kHz_SETUP"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_FBN_7kHz_SETUP		
CM Type : CP_M		
Derivation Path :		
Comments : To trigger the sending of a SETUP message for a 7 kHz call which does not allow fallback		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"SEND_FBN_7kHz_SETUP"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_FBA_SETUP (HLC_ID:HLC_ID_LIST)		
CM Type : CP_M_FBA_S		
Derivation Path :		
Comments : To trigger the sending of a SETUP message for a videotelephony, videoconference or audiographic conference call which allows fallback		
Parameter Name	**Parameter Value**	**Comments**
CM_par	HLC_ID	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_FBN_SETUP (HLC_ID:HLC_ID_LIST)		
CM Type : CP_M_FBN_S		
Derivation Path :		
Comments : To trigger the sending of a SETUP message for a videotelephony, videoconference or audiographic conference call which notallows fallback		
Parameter Name	**Parameter Value**	**Comments**
CM_par	HLC_ID	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : S_SC_SETUP (HLC_ID:HLC_ID_LIST)		
CM Type : CP_M_SC_S		
Derivation Path :		
Comments : To trigger the sending of a SETUP message for a videotelephony, videoconference or audiographic conference second call.		
Parameter Name	**Parameter Value**	**Comments**
CM_par	HLC_ID	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : LAYER_2_ESTABLISHED		
CM Type : CP_M		
Derivation Path :		
Comments : To indicate that layer 2 has been established at PTC1		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"LAYER_2_ESTABLISHED"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : STOP_PTC		
CM Type : CP_M		
Derivation Path :		
Comments : To stop the PTC test step		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"STOP_PTC"	
Detailed Comments :		

CM Constraint Declaration		
Constraint Name : N00_Ready		
CM Type : CP_M		
Derivation Path :		
Comments : To inform MTCA that PTC1 pramble is done		
Parameter Name	**Parameter Value**	**Comments**
CM_content	"N00_Ready"	
Detailed Comments :		

IV

Dynamic Part

Test Case Dynamic Behaviour

Test Case Name : TTC11_01

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, a HLC=telephony, and not containing a LLC, and on completion of a successful subscription check for the prime service, is capable of sending a CONNECT message and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.1 b), 6.6, EN 300 403−1 5.1.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_OUT(BCAP_UDITA))			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBA_7kHz_S(CREF,CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
8		CPA1!CP_M START TWAIT	S_CONNECT		
9		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))		
10		+MTCA_CS(10,0)			
11		?TIMEOUT TWAIT		(F)	
12		+MTCA_PO_N00(0)			
13		?TIMEOUT TAC		(F)	no response
14		+MTCA_PO_N00(0)			postamble N0
15		?TIMEOUT TWAIT		(I)	no response
16		+END_PTC1			(6)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid SETUP message with the complete called party information is sent.
(5) A CALL PROCEEDING message is received.
(6) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : TTC11_02

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message, and on failure of the subscription check for the prime service,
releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 6.5.1 b), 6.6, EN 300 403−1 5.1.5.1, 5.3.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			Preamble N00
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_7kHz_S(CREF, CDPN_PTC1))		(1)
3		L0?PDUr CANCEL TAC	Mr(RC_CAU_R(1,CREF,57))	(P)	(2)
4		+MTCA_CS(0,0)			check N0
5		?TIMEOUT TAC			
6		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) A valid fallback allowed 7 kHz SETUP message with the sending complete information element is sent. No PTC is activated.
(2) A RELEASE COMPLETE message is received with the cause value #57.

Test Case Dynamic Behaviour

Test Case Name : TTC11_03

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.1 c), 6.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_OUT(BCAP_UDITA))			(1)
2		+MTCA_PR_FBA_7kHz_N3			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_R(1,CREF,BCAP_UDITA))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC11_04

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a telephony 7 kHz fallback allowed SETUP message,
is capable of sending a CONNECT message containing a BC=UDI/TA and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.1 c), 6.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_OUT(BCAP_UDITA))			(1)
2		+MTCA_PR_FBA_7kHz_N4			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_R(1,CREF,BCAP_UDITA))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC11_05

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.1 c), 6.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_OUT(BCAP_SPEECH))			(1)
2		+MTCA_PR_FBA_7kHz_N3			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_R(1,CREF,BCAP_SPEECH))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to SPEECH is received −> PASS
(5) A CONNECT message not containing a bearer capability set to SPEECH is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC11_06

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a telephony 7 kHz fallback allowed SETUP message,
is capable of sending a CONNECT message containing a BC=speech and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.1 c), 6.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_OUT(BCAP_SPEECH))			(1)
2		+MTCA_PR_FBA_7kHz_N4			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_R(1,CREF,BCAP_SPEECH))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to SPEECH is received −> PASS
(5) A CONNECT message not containing a bearer capability set to SPEECH is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC11_07

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message,
is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5 and a BC=speech and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.1 d), 6.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBA_7kHz_S(CREF, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_SPEECH_R(1,CREF))	(P)	(5)
8		+MTCA_CS(3,0)			check N3
9		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(6)
10		CPA1!CP_M START TWAIT	S_ALERTING		(7)
11		L0?PDUr CANCEL TWAIT	Mr(AL_SPEECH_R(1,CREF))	(P)	(8)
12		+MTCA_CS(4,0)			check N4
13		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(9)
14		CPA1!CP_M START TWAIT	S_CONNECT		(10)
15		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(11)
16		+MTCA_PO_N00(0)			
17		L0?PDUr CANCEL TWAIT	Mr(PG_SPEECH_R(1,CREF))	(P)	(12)
18		+MTCA_CS(4,0)			check N4
19		?TIMEOUT TWAIT		(I)	no response
20		+MTCA_PO_N00(0)			postamble N0
21		L0?PDUr CANCEL TWAIT	Mr(PG_SPEECH_R(1,CREF))	(P)	(12)
22		+MTCA_CS(3,0)			check N3

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23		?TIMEOUT TWAIT		(I)	no respon se
24		+MTCA_PO_N00(0)			postam ble N0
25		L0?PDUr CANCEL TAC	Mr(PG_SPEECH_R(1,C REF))	(P)	(12)
26		+MTCA_PO_N00(0)			postam ble N0
27		?TIMEOUT TAC			no respon se
28		+MTCA_PO_N00(0)			postam ble N0
29		?TIMEOUT TWAIT		(I)	no respon se
30		+END_PTC1			(13)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid fallback allowed 7 kHz SETUP message with the sending complete information element is sent to the first slave remote user
(5) A CALL PROCEEDING message containing PI=#5 and eventualy BC=speech is received
(6) A CALL PROCEEDING message not containing PI=#5 is received
(7) This coordination message indicates to the slave component to send an ALERTING message.
(8) An ALERTING message containing PI=#5 and eventualy BC=speech is received
(9) An ALERTING message not containing PI=#5 is received
(10) This coordination message indicates to the slave component to send a CONNECT message.
(11) A CONNECT message is received without receiving PI=#5 before −> FAIL
(12) A PROGRESS message containing PI=#5 and eventualy BC=speech is received
(13) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : TTC11_08

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Overlap Sending call state N2, on receipt of a telephony 7 kHz fallback allowed SETUP message,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.3.4.1, 5.1.4, 5.1.5.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_7kHz_No SCI_S(CREF))		(2)
3		L0?PDUr CANCEL TAC, START T_MIN(PC_T302MIN) , START T_MAX(PC_T302MAX)	Mr(SUA_R(1,CREF))	(P)	(3)
4		?TIMEOUT T_MIN			(4)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(5)
6		+MTCA_CHECK_IN_BAND_TA(0)			(6)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(7)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	(8)
11		+MTCA_PO_N00(0)			postam ble N0
12		?TIMEOUT TAC		(I)	no respon se
13		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) A valid fallback allowed 7 kHz SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received. The IUT has entered N02.
(4) Minimum duration allowed for T302 has passed by. Wait for a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 has been received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 has been received −> FAIL
(8) Maximum duration allowed for T302 has passed by. Test failed..

Test Case Dynamic Behaviour

Test Case Name : TTC11_09

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.2.5.4, 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBA_7kHz_N3			(2)
3		START T_MIN(PC_T310MIN) , START T_MAX(PC_T310MAX)			
4		?TIMEOUT T_MIN			(3)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
6		+MTCA_CHECK_IN_BAND_TA(0)			(5)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	no respon se
11		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) Minimum duration allowed for T310 has passed by. Wait for a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC11_10

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message, not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Overlap sending call state N2.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.4, 6.6, EN 300 403−1 5.1.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_7kHz_No SCI_S(CREF))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI8_R))	(P)	(3)
4		+MTCA_CHECK_IN_BAND_TA(0)			(4)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postam ble N0
8		?TIMEOUT TAC		(I)	no respon se
9		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback allowed 7 kHz SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received with PI=#8 −> PASS
(4) Test step where an operator will check in−band tone−announcement
(5) A SETUP ACKNOWLEDGE without PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC11_11

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.4, 6.6, EN 300 403−1 5.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			(2)
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(3)
5		CPA1!CP_M	R_SETUP		(4)
6		L0!PDUs START TAC	Ms(SU_FBA_7kHz_S(CREF, CDPN_PTC1))		(5)
7		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF, PI8_R))	(P)	(6)
8		+MTCA_CHECK_IN_BAND_TA(0)			
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(7)
11		CPA1!CP_M START TWAIT	S_ALERTING		(8)
12		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI8_R))	(P)	(9)
13		+MTCA_CHECK_IN_BAND_TA(0)			
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(10)
16		CPA1!CP_M START TWAIT	S_CONNECT		(11)
17		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(12)
18		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
19		+MTCA_CHECK_IN_BAND_TA(0)			
20		+MTCA_CS(4,0)			check N4
21		?TIMEOUT TWAIT		(I)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		+MTCA_PO_N00(0)			postamble N0
23		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
24		+MTCA_CHECK_IN_BAND_TA(0)			
25		+MTCA_CS(3,0)			check N3
26		?TIMEOUT TWAIT		(I)	no response
27		+MTCA_PO_N00(0)			postamble N0
28		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
29		+MTCA_CHECK_IN_BAND_TA(0)			
30		+MTCA_PO_N00(0)			postamble N0
31		?TIMEOUT TAC		(I)	no response
32		+MTCA_PO_N00(0)			postamble N0
33		?TIMEOUT TWAIT		(I)	no response
34		+END_PTC1			(14)

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(4) This coordination message indicates to the slave component to expect a SETUP message.
(5) A valid fallback allowed 7 kHz SETUP message with the sending complete information element is sent to the slave remote user
(6) A CALL PROCEEDING message containing PI=#8 is received
(7) A CALL PROCEEDING message not containing PI=#8 is received
(8) This coordination message indicates to the slave component to send an ALERTING message.
(9) An ALERTING message containing PI=#8 is received
(10) An ALERTING message not containing PI=#8 is received
(11) This coordination message indicates to the slave component to send a CONNECT message.
(12) A CONNECT message is received without receiving PI=#8 before −> FAIL

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Test Case Dynamic Behaviour
Detailed Comments : … (13) A PROGRESS message containing PI=#8 is received (14) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : TTC11_12

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end−to−end ISDN, further call progress information may be available in−band" and enters the relevant basic call state.

Configuration : CONFIGT

Default : MTCA_DEF(0)

Comments : 6.7, EN 300 403−1 5.1.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTCT : PTCT_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		L0!PDUs (PTC_ACTIVATED:=FALSE, PTCT_ACTIVATED:=TRUE) START TAC	Ms(SU_FBA_7kHz_PSTN_NoSCI_S(CREF))		(2)
4		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI1_R))	(P)	(3)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))		
7		L0!PDUs START TWAIT	Ms(IN_PSTN_S(0,CREF))		(4)
8		L0?PDUr CANCEL TWAIT	Mr(CP_PI_R(1,CREF,PI1_R))	(P)	(5)
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
11		+MTCA_CS(2,0)			check N2
12		L0?PDUr	Mr(CP_R(1,CREF))		
13		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI1_R))	(P)	(7)
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
16		+MTCA_CS(3,0)			check N3
17		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		
18		CPAT!CP_M START TWAIT	S_CONNECT		(8)
19		L0?PDUr CANCEL TWAIT	Mr(CN_PI_R(1,CREF,PI1_R))	(P)	(9)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		+MTCA_CS(10,0)			check N10
21		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
22		+MTCA_CS(4,0)			check N4
23		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(10)
24		?TIMEOUT TWAIT		(I)	no response
25		+MTCA_PO_N00(0)			postamble N0
26		?TIMEOUT TWAIT		(I)	no response
27		+MTCA_PO_N00(0)			postamble N0
28		?TIMEOUT TWAIT		(I)	no response
29		+MTCA_PO_N00(0)			postamble N0
30		?TIMEOUT TAC		(I)	no response
31		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) A valid fallback allowed 7 kHz SETUP message without a sending complete information element is sent to a phone
(3) A SETUP ACKNOWLEDGE message containing PI=#1 is received −> PASS
(4) An IFORMATION message with sufficient called number information and with the sending complete information element is sent
(5) A CALL PROCEEDING message containing PI=#1 is received −> PASS
(6) A PROGRESS message containing PI=#1 is received −> PASS
(7) An ALERTING message containing PI=#1 is received −> PASS
(8) This coordination message indicates to the slave component to act as lift the hand−set
(9) A CONNECT message is received with PI=#1 before −> PASS
(10) No control message containing PI=#1 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC11_13

Group : NT7VAC/TL7/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end−to−end ISDN, further call progress information may be available in−band" and enters the relevant basic call state.

Configuration : CONFIGT

Default : MTCA_DEF(0)

Comments : 6.7, EN 300 403−1 5.1.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTCT : PTCT_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		L0!PDUs (PTC_ACTIVATED:=FALSE, PTCT_ACTIVATED:=TRUE) START TAC	Ms(SU_FBA_7kHz_S(CREF,CDPN_PSTN))		(2)
4		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF,PI1_R))	(P)	(3)
5		+MTCA_CS(3,0)			check N3
6		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
7		+MTCA_CS(2,0)			check N2
8		L0?PDUr CANCEL TAC, START TWAIT	Mr(CP_R(1,CREF))		
9		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI1_R))	(P)	(5)
10		+MTCA_CS(4,0)			check N4
11		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
12		+MTCA_CS(3,0)			check N3
13		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		
14		CPAT!CP_M START TWAIT	S_CONNECT		(6)
15		L0?PDUr CANCEL TWAIT	Mr(CN_PI_R(1,CREF,PI1_R))	(P)	(7)
16		+MTCA_CS(10,0)			check N10
17		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
18		+MTCA_CS(4,0)			check N4
19		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(8)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		?TIMEOUT TWAIT		(I)	no respon se
21		+MTCA_PO_N00(0)			postam ble N0
22		?TIMEOUT TWAIT		(I)	no respon se
23		+MTCA_PO_N00(0)			postam ble N0
24		?TIMEOUT TAC		(I)	no respon se
25		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) A valid fallback allowed 7 kHz SETUP message with a sending complete information element is sent to a phone
(3) A CALL PROCEEDING message containing PI=#1 is received −> PASS
(4) A PROGRESS message containing PI=#1 is received −> PASS
(5) An ALERTING message containing PI=#1 is received −> PASS
(6) This coordination message indicates to the slave component to act as lift the hand−set
(7) A CONNECT message is received with PI=#1 before −> PASS
(8) No control message containing PI=#1 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC12_01

Group : NT7VAC/TL7/ORIG/FBN/

Purpose : Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC=UDI/TA and a HLC=telephony, and not containing a LLC,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.3.4.1, 5.1.4, 5.1.5.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_7kHz_No SCI_S(CREF))		(2)
3		L0?PDUr CANCEL TAC, START T_MIN(PC_T302MIN) , START T_MAX(PC_T302MAX)	Mr(SUA_R(1,CREF))	(P)	(3)
4		?TIMEOUT T_MIN			(4)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(5)
6		+MTCA_CHECK_IN_BAND_TA(0)			(6)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(7)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	(8)
11		+MTCA_PO_N00(0)			postam ble N0
12		?TIMEOUT TAC		(I)	no respon se
13		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) A valid fallback not allowed 7 kHz SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received. The IUT has entered N02.
(4) Minimum duration allowed for T302 has passed by. Wait for a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 has been received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 has been received −> FAIL
(8) Maximum duration allowed for T302 has passed by. Test failed..

Test Case Dynamic Behaviour

Test Case Name : TTC12_02

Group : NT7VAC/TL7/ORIG/FBN/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.2.5.4, 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBN_7kHz_N3			(2)
3		START T_MIN(PC_T310MIN) , START T_MAX(PC_T310MAX)			
4		?TIMEOUT T_MIN			(3)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
6		+MTCA_CHECK_IN_BAND_TA(0)			(5)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	no respon se
11		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) Minimum duration allowed for T310 has passed by. Wait for a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC12_03

Group : NT7VAC/TL7/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, on receipt a telephony 7 kHz fallback not allowed SETUP message, not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Overlap sending call state N2.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.4, 6.6, EN 300 403−1 5.1.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_7kHz_No SCI_S(CREF))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI8_R))	(P)	(3)
4		+MTCA_CHECK_IN_BAND_TA(0)			(4)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postam ble N0
8		?TIMEOUT TAC		(I)	no respon se
9		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed 7 kHz SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received with PI=#8 −> PASS
(4) Test step where an operator will check in−band tone−announcement
(5) A SETUP ACKNOWLEDGE without PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC12_04

Group : NT7VAC/TL7/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, on receipt a telephony 7 kHz fallback not allowed SETUP message, containing a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.4, 6.6, EN 300 403−1 5.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBN_7kHz_S(CREF, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF, PI8_R))	(P)	(5)
8		+MTCA_CHECK_IN_BAND_TA(0)			
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(6)
11		CPA1!CP_M START TWAIT	S_ALERTING		(7)
12		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI8_R))	(P)	(8)
13		+MTCA_CHECK_IN_BAND_TA(0)			
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(9)
16		CPA1!CP_M START TWAIT	S_CONNECT		(10)
17		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(11)
18		+MTCA_PO_N00(0)			postamble N0
19		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(12)
20		+MTCA_CHECK_IN_BAND_TA(0)			
21		+MTCA_CS(4,0)			check N4

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		?TIMEOUT TWAIT		(I)	no respon se
23		+MTCA_PO_N00(0)			postam ble N0
24		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(12)
25		+MTCA_CHECK_IN_BAND_ TA(0)			
26		+MTCA_CS(3,0)			check N3
27		?TIMEOUT TWAIT		(I)	no respon se
28		+MTCA_PO_N00(0)			postam ble N0
29		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(12)
30		+MTCA_CHECK_IN_BAND_TA(0)			
31		+MTCA_PO_N00(0)			postam ble N0
32		?TIMEOUT TAC		(I)	no respon se
33		+MTCA_PO_N00(0)			postam ble N0
34		?TIMEOUT TWAIT		(I)	no respon se
35		+END_PTC1			(13)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid fallback not allowed 7 kHz SETUP message with the sending complete information element is sent to the slave component
(5) A CALL PROCEEDING message containing PI=#8 is received
(6) A CALL PROCEEDING message not containing PI=#8 is received
(7) This coordination message indicates to the slave component to send an ALERTING message.
(8) An ALERTING message containing PI=#8 is received
(9) An ALERTING message not containing PI=#8 is received
(10) This coordination message indicates to the slave component to send a CONNECT message.
(11) A CONNECT message is received without receiving PI=#8 before −> FAIL
(12) A PROGRESS message containing PI=#8 is received
(13) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : TTC12_05

Group : NT7VAC/TL7/ORIG/FBN/

Purpose : Verify that the IUT , in Idle call state N0, on receipt of a telephony 7 kHz fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 6.7, EN 300 403−1 5.1.1, 5.1.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_7kHz_S(CREF, CDPN_PSTN))		(2)
3		L0?PDUr CANCEL TAC	Mr(RC_CAU_R(1,CREF,65))	(P)	(3)
4		+MTCA_CS(0,0)			check N0
5		?TIMEOUT TAC		(I)	no response
6		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) A valid fallback not allowed 7 kHz SETUP message with a sending complete information element is sent to a PSTN destination
(3) A RELEASE COMPLETE message is received with the cause value #65 −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC12_06

Group : NT7VAC/TL7/ORIG/FBN/

Purpose : Verify that the IUT, in Overlap Sending call state N2, having received a telephony 7 kHz fallback not allowed SETUP message,
is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 6.7, EN 300 403−1 5.1.5.2, 5.3.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_7kHz_PSTN_NoSCI_S(CREF))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_R(0,CREF))		
4		L0!PDUs START TWAIT	Ms(IN_PSTN_S(0,CREF))		(3)
5		L0?PDUr CANCEL TWAIT	Mr(DI_CAU_R(1,CREF,65))	(P)	(4)
6		+MTCA_CS(12,0)			check N12
7		?TIMEOUT TWAIT		(I)	no response
8		+MTCA_PO_N00(0)			postamble N0
9		?TIMEOUT TAC		(I)	no response
10		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) A valid fallback not allowed 7 kHz SETUP message without a sending complete information element is sent to a PSTN destination
(3) An IFORMATION message with sufficient called number information and with the sending complete information elemet is sent
(4) A DISCONNECT message is received with the cause value #65 −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC13_01

Group : NT7VAC/TL7/ORIG/CMN/

Purpose : Verify that the IUT, at the originating interface, in Active call state N10, with a call of the telephony 7 kHz teleservice in progress in a 7 kHz mode, is capable of sending a DISCONNECT message, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBN_7kHz_N3			(2)
3		CPA1!CP_M START TWAIT	S_ALERTING		(3)
4		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(4)
5		CPA1!CP_M START TWAIT	S_CONNECT		(5)
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))		(6)
7		CPA1!CP_M START TWAIT	S_DISCONNECT		(7)
8		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(8)
9		+MTCA_CHECK_IN_BAND_T A(0)			(9)
10		+MTCA_CS(12,0)			check N12
11		L0?PDUr CANCEL TWAIT	Mr(DI_R(1,CREF))	(F)	(10)
12		+MTCA_PO_N00(0)			postam ble N0
13		?TIMEOUT TWAIT		(I)	no respon se
14		+MTCA_PO_N00(0)			postam ble N0
15		?TIMEOUT TWAIT		(I)	no respon se
16		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is not allowed.
(3) This coordination message indicates to the slave component to send an ALERTING message.
(4) An ALERTING message is received. The IUT has entered N4
(5) This coordination message indicates to the slave component to send a CONNECT message.
(6) A CONNECT message is received. The IUT has entered N10.
(7) This coordination message indicates to the slave component to send a

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Test Case Dynamic Behaviour
Detailed Comments : … DISCONNECT message. (8) A DISCONNECT message containing a PI=#8 is received −> PASS (9) Test step where an operator will check in−band tone−announcement (10) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC21_01

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, a HLC=telephony, and not containing an LLC and enters the Call present call state N6.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 a), 6.6 a)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M START TWAIT	S_FBA_7kHz_SETUP		(3)
4		[PC_POINT_TO_POINT]			(4)
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_7kHz_R(CHIb_R, CHIp_R))	(P)	(5)
6		+MTCA_CS(6,1)			check −state
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(6)
11		[NOT PC_POINT_TO_POINT]			(7)
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_FBA_7kHz_R(CHIb_R, CHIp_R))	(P)	(5)
13		+MTCA_CS(6,1)			check −state
14		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
15		+MTCA_PO_N00(1)			postamble N0
16		?TIMEOUT TWAIT		(I)	no response
17		+END_PTC1			(6)

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to PTC1 to send a fallback allowed SETUP message.

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Test Case Dynamic Behaviour
Detailed Comments : … (4) Check for point to point configuration (5) a valid fallback allowed 7 kHz SETUP message is received −> PASS (6) Test step to terminate all actions at PTC1. (7) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : TTC21_02

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 6.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N6			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_03

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 6.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N7			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_04

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 6.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N9			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_05

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 6.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N6			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_06

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N7			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_07

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 6.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N9			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_08

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 6.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N6			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with BCAP=UDI/TA is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_09

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N7			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with BCAP=UDI/TA is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_10

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 c), 6.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N9			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A CONNECT message with BCAP=UDI/TA is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : TTC21_11

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Overlap Receiving call state N25, having sent a telephony 7 kHz fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.3.4.1, 5.3.2 e)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M START TWAIT	S_FBA_7kHz_SETUP		(3)
4		+ptc0_n25			(4)
5		L0!PDUs	Ms(SUA_S(1,CREF,B_CHN))		(5)
6		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
7		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(7)
8		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
9		+MTCA_CS(12,1)			check N12
10		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(8)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
		ptc0_n25			
14		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_7kHz_R(CHIb_ANY_R,CHIp_ANY_R))	(P)	
15		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_7kHz_R(CHIp_R))	(P)	
16		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_7kHz_R(CHIb_R))	(P)	
17		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the slave component to send a videotelephony fallback allowed SETUP message.
(4) Subtree to reach state N25
(5) A SETUP ACKNOWLEDGE messge is sent. The IUT enters N25.
(6) This coordination message indicates to the slave component to send a DISCONNECT message.
(7) A DISCONNECT message containing a PI=#8 has been received −> PASS
(8) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC21_12

Group : NT7VAC/TL7/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.3.4.1, 5.3.2 e)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N9			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
6		+MTCA_CS(12,1)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(5)
8		+MTCA_PO_N00(1)			postam ble N0
9		?TIMEOUT TWAIT		(I)	no respon se
10		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 has been received −> PASS
(5) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC21_13

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N6			(2)
3		L0!PDUs START TAC	Ms(CP_PI_S(1,CREF, B_CHN))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A PROGRESS message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : TTC21_14

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" but not containing a BC or HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N6			(2)
3		L0!PDUs START TAC	Ms(AL_PI_S(1,CREF, B_CHN))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) An ALERTING message with PI=#5, no BC and no HLC is sent.

Test Case Dynamic Behaviour

Test Case Name : TTC21_15

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", but not containing a BC or HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N7			(2)
3		L0!PDUs START TAC	Ms(PG_PI_S(1,CREF))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A PROGRESS message with PI=#5, no BC and no HLC is sent.

Test Case Dynamic Behaviour

Test Case Name : TTC21_16

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N9			(2)
3		L0!PDUs START TAC	Ms(AL_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) An ALERTING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : TTC21_17

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N9			(2)
3		L0!PDUs START TAC	Ms(PG_PI_S(1,CREF))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A PROGRESS message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : TTC21_18

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", a BC=speech and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N6			(2)
3		L0!PDUs START TAC	Ms(CP_BCAP_PI_S(1, CREF,B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : TTC21_19

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", a BC=speech and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N6			(2)
3		L0!PDUs START TAC	Ms(AL_BCAP_PI_S(1, CREF, B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) An ALERTING message with PI=#5, no BC=speech and no HLC is sent.

Test Case Dynamic Behaviour

Test Case Name : TTC21_20

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", BC=speech and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N7			(2)
3		L0!PDUs START TAC	Ms(PG_BCAP_PI_S(1, CREF, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent.

Test Case Dynamic Behaviour

Test Case Name : TTC21_21

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N9			(2)
3		L0!PDUs START TAC	Ms(AL_BCAP_PI_S(1, CREF,B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : TTC21_22

Group : NT7VAC/TL7/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_7kHz_N9			(2)
3		L0!PDUs START TAC	Ms(PG_BCAP_PI_S(1, CREF, BCAP_SPEECH))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : TTC22_01

Group : NT7VAC/TL7/DEST/FBN/

Purpose : Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC=UDI/TA and a HLC=telephony, and not containing a LLC and enters the Call present call state N6.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 6.5.2 1), 6.6 first bullet item

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M START TWAIT	S_FBN_7kHz_SETUP		(3)
4		[PC_POINT_TO_POINT]			(4)
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_7kHz_R(CHIb_R, CHIp_R))	(P)	(5)
6		+MTCA_CS(6,1)			check −state
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			
11		[NOT PC_POINT_TO_POINT]			(6)
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_FBN_7kHz_R(CHIb_R, CHIp_R))	(P)	(5)
13		+MTCA_CS(6,1)			check −state
14		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
15		+MTCA_PO_N00(1)			postamble N0
16		?TIMEOUT TWAIT		(I)	no response
17		+END_PTC1			

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to PTC1 to send a SETUP message.
(4) Check for point to point configuration
(5) a valid fallback allowed 7 kHz SETUP message is received −> PASS
(6) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : TTC22_02

Group : NT7VAC/TL7/DEST/FBN/

Purpose : Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing a single BC=UDI/TA and a HLC=telephony, and not containing a LLC,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M START TWAIT	S_FBN_7kHz_SETUP		(3)
4		+ptc0_n25			(4)
5		L0!PDUs	Ms(SUA_S(1,CREF,B_CHN))		(5)
6		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
7		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(7)
8		+MTCA_CHECK_IN_BAND_TA(1)			Check−Ta
9		+MTCA_CS(12,1)			check N12
10		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(8)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
		ptc0_n25			
14		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_7kHz_R(CHIb_ANY_R,CHIp_ANY_R))	(P)	
15		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBN_CH_7kHz_R(CHIp_R))	(P)	
16		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBN_CH_7kHz_R(CHIb_R))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the slave component to send a 7 kHz fallback not allowed SETUP message.
(4) Subtree to reach state N25
(5) A SETUP ACKNOWLEDGE messge is sent. The IUT enters N25.
(6) This coordination message indicates to the slave component to send a DISCONNECT message.
(7) A DISCONNECT message containing a PI=#8 has been received −> PASS
(8) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC22_03

Group : NT7VAC/TL7/DEST/FBN/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback not allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default :

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBN_7kHz_N9			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
6		+MTCA_CS(12,1)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(5)
8		+MTCA_PO_N00(1)			postam ble N0
9		?TIMEOUT TWAIT		(I)	no respon se
10		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback not allowed 7 kHz SETUP message is received.
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 has been received −> PASS
(5) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : TTC23_01

Group : NT7VAC/TL7/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, in Active call state N10, with a call of the telephony 7 kHz teleservice in progress in a 7 kHz mode, is capable of sending a DISCONNECT message, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 6.5.3, 6.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBN_7kHz_N9			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	
5		CPA1!CP_M START TWAIT	S_DISCONNECT		(4)
6		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(5)
7		+MTCA_CHECK_IN_BAND_TA(1)			(6)
8		+MTCA_CS(12,1)			check N12
9		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(7)
10		+MTCA_PO_N00(1)			postamble N0
11		?TIMEOUT TWAIT		(I)	no response
12		+MTCA_PO_N00(1)			postamble N0
13		?TIMEOUT TAC		(F)	no response
14		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback not allowed 7 kHz SETUP message is received.
(3) The 7 KHz telephony call is accepted
(4) This coordination message indicates to the slave component to send a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 is received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_01

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=videotelephony_ic, and not containing a LLC, and on completion of a successful subscription check for the prime service,
is capable of sending a CONNECT message and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 7.6, 7.5.1 b) , EN 300 403−1 5.1.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_VTL)))			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_VTL, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
8		CPA1!CP_M START TWAIT	S_CONNECT		
9		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))		
10		+MTCA_CS(10,0)			
11		?TIMEOUT TWAIT		(F)	
12		+MTCA_PO_N00(0)			
13		?TIMEOUT TAC		(F)	no response
14		+MTCA_PO_N00(0)			postamble N0
15		?TIMEOUT TWAIT		(I)	no response
16		+END_PTC1			(6)

Detailed Comments : (1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid SETUP message with the complete called party information is sent.
(5) A CALL PROCEEDING message is received.
(6) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : VTC11_02

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message, and on failure of the subscription check for the prime service,
releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 7.5.1 b), 7.6, EN 300 403−1 5.1.5.1, 5.3.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			Preamble N00
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_S(CREF, H_VTL, CDPN_PTC1))		(1)
3		L0?PDUr CANCEL TAC	Mr(RC_CAU_R(1,CREF,57))	(P)	(2)
4		+MTCA_CS(0,0)			check N0
5		?TIMEOUT TAC			
6		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) A valid fallback allowed videotelephony SETUP message with the sending complete information element is sent. No PTC is activated.
(2) A RELEASE COMPLETE message is received with the cause value #57.

Test Case Dynamic Behaviour

Test Case Name : VTC11_03

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=videotelephony_ic and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 7.5.1 c), 7.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_VTL)))			(1)
2		+MTCA_PR_FBA_N3 (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_ic(H_VTL)))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to videotelephony_ic is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to videotelephony_ic is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_04

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=videotelephony_ic and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 7.5.1 c), 7.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_VTL)))			(1)
2		+MTCA_PR_FBA_N4 (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_ic(H_VTL)))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to videotelephony_ic is received −>PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to videotelephony_ic is received −>FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_05

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.2 c), 7.5.1 c), 7.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N3 (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_06

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.2 c), 7.5.1 c), 7.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N4 (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_07

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 7.5.1 c), 7.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_SPEECH, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N3 (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to speech and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to speech or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_08

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 7.5.1 c), 7.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT (BCAP_SPEECH, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N4 (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to speech and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to speech or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_09

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and no HLC and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 7.5.1 c), 7.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_OUT(BCAP_SPEECH))			(1)
2		+MTCA_PR_FBA_7kHz_N4			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_NoHLC_R(1,CREF, BCAP_SPEECH))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to speech and not high layer compatibility is received −> PASS
(5) A CONNECT message not containing a bearer capability set to speech or containing a high layer compatibility is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_10

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message,
is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5, and a BC=speech, and a HLC=telephony or no HLC and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 7.5.1 d), 7.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_VTL, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_SPEECH_OPT_HLC_R(1,CREF, H_VTL))	(P)	(5)
8		+MTCA_CS(3,0)			check N3
9		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(6)
10		CPA1!CP_M START TWAIT	S_ALERTING		(7)
11		L0?PDUr CANCEL TWAIT	Mr(AL_SPEECH_OPT_HLC_R(1,CREF, H_VTL))	(P)	(8)
12		+MTCA_CS(4,0)			check N4
13		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(9)
14		CPA1!CP_M START TWAIT	S_CONNECT		(10)
15		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(11)
16		+MTCA_PO_N00(0)			
17		L0?PDUr CANCEL TWAIT	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_VTL))	(P)	(12)
18		+MTCA_CS(4,0)			check N4
19		?TIMEOUT TWAIT		(I)	no response
20		+MTCA_PO_N00(0)			postamble N0

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		L0?PDUr CANCEL TWAIT	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_VTL))	(P)	(12)
22		+MTCA_CS(3,0)			check N3
23		?TIMEOUT TWAIT		(I)	no response
24		+MTCA_PO_N00(0)			postamble N0
25		L0?PDUr CANCEL TAC	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_VTL))	(P)	(12)
26		+MTCA_PO_N00(0)			postamble N0
27		?TIMEOUT TAC			no response
28		+MTCA_PO_N00(0)			postamble N0
29		?TIMEOUT TWAIT		(I)	no response
30		+END_PTC1			(13)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid fallback allowed audiographic conference SETUP message with the sending complete information element is sent to the first slave remote user
(5) A CALL PROCEEDING message containing PI=#5 and a BC=speech and optionally HLC=telephony
(6) A CALL PROCEEDING message not containing PI=#5 is received
(7) This coordination message indicates to the slave component to send an ALERTING message.
(8) An ALERTING message containing PI=#5 and a BC=speech and optionally HLC=telephony
(9) An ALERTING message not containing PI=#5 is received
(10) This coordination message indicates to the slave component to send a CONNECT message.
(11) No control message containing a PI=#5 anda BC=speech and optionally HLC=telephony have been received before the CONNECT message
(12) A PROGRESS message containing PI=#5 and a BC=speech and optionally HLC=telephony
(13) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : VTC11_11

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Overlap Sending call state N2, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4.1, 5.1.4, 5.1.5.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_NoSCI_S(CREF, H_VTL))		(2)
3		L0?PDUr CANCEL TAC, START T_MIN(PC_T302MIN) , START T_MAX(PC_T302MAX)	Mr(SUA_R(1,CREF))	(P)	(3)
4		?TIMEOUT T_MIN			(4)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI8_R))	(P)	(5)
6		+MTCA_CHECK_IN_BAND_TA(0)			(6)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(7)
9		+MTCA_PO_N00(0)			postamble N0
10		?TIMEOUT T_MAX		(F)	(8)
11		+MTCA_PO_N00(0)			postamble N0
12		?TIMEOUT TAC		(I)	no response
13		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback allowed videotelephony SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received. The IUT has entered N02.
(4) Minimum duration allowed for T302 has passed by. Wait for a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 has been received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 has been received −> FAIL
(8) Maximum duration allowed for T302 has passed by. Test failed..

Test Case Dynamic Behaviour

Test Case Name : VTC11_12

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.2.5.4, 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBA_N3 (H_VTL)			(2)
3		START T_MIN(PC_T310MIN) , START T_MAX(PC_T310MAX)			
4		?TIMEOUT T_MIN			(3)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
6		+MTCA_CHECK_IN_BAND_TA(0)			(5)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	no respon se
11		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) Minimum duration allowed for T310 has passed by. Wait for a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_13

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Overlap sending call state N2.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.4, 7.6, EN 300 403−1 5.1.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_NoSCI_S(CREF, H_VTL))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI8_R))	(P)	(3)
4		+MTCA_CHECK_IN_BAND_TA(0)			(4)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TAC		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback allowed videotelephony SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received with PI=#8 −> PASS
(4) Test step where an operator will check in−band tone−announcement
(5) A SETUP ACKNOWLEDGE without PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_14

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, of a videotelephony fallback allowed SETUP message with a sending complete indication,
is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in−band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.4, 7.6, EN 300 403−1 5.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			(2)
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(3)
5		CPA1!CP_M	R_SETUP		(4)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_VTL, CDPN_PTC1))		(5)
7		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF, PI8_R))	(P)	(6)
8		+MTCA_CHECK_IN_BAND_TA(0)			
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(7)
11		CPA1!CP_M START TWAIT	S_ALERTING		(8)
12		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI8_R))	(P)	(9)
13		+MTCA_CHECK_IN_BAND_TA(0)			
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(10)
16		CPA1!CP_M START TWAIT	S_CONNECT		(11)
17		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(12)
18		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
19		+MTCA_CHECK_IN_BAND_TA(0)			
20		+MTCA_CS(4,0)			check N4
21		?TIMEOUT TWAIT		(I)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		+MTCA_PO_N00(0)			postamble N0
23		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
24		+MTCA_CHECK_IN_BAND_TA(0)			
25		+MTCA_CS(3,0)			check N3
26		?TIMEOUT TWAIT		(I)	no response
27		+MTCA_PO_N00(0)			postamble N0
28		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
29		+MTCA_CHECK_IN_BAND_TA(0)			
30		+MTCA_PO_N00(0)			postamble N0
31		?TIMEOUT TAC		(I)	no response
32		+MTCA_PO_N00(0)			postamble N0
33		?TIMEOUT TWAIT		(I)	no response
34		+END_PTC1			(14)

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(4) This coordination message indicates to the slave component to expect a SETUP message.
(5) A valid fallback allowed videotelephony SETUP message with the sending complete information element is sent to the slave remote user
(6) A CALL PROCEEDING message containing PI=#8 is received
(7) A CALL PROCEEDING message not containing PI=#8 is received
(8) This coordination message indicates to the slave component to send an ALERTING message.
(9) An ALERTING message containing PI=#8 is received
(10) An ALERTING message not containing PI=#8 is received
(11) This coordination message indicates to the slave component to send a CONNECT message.
(12) A CONNECT message is received without receiving PI=#8 before −> FAIL

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Test Case Dynamic Behaviour
Detailed Comments : … (13) A PROGRESS message containing PI=#8 is received (14) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : VTC11_15

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end−to−end ISDN, further call progress information may be available in−band" and enters the relevant basic call state.

Configuration : CONFIGT

Default : MTCA_DEF(0)

Comments : 7.7, EN 300 403−1 5.1.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTCT : PTCT_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		L0!PDUs (PTC_ACTIVATED:=FALSE, PTCT_ACTIVATED:=TRUE) START TAC	Ms(SU_FBA_PSTN_NoSCI_S(CREF, H_VTL))		(2)
4		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI1_R))	(P)	(3)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))		
7		L0!PDUs START TWAIT	Ms(IN_PSTN_S(0,CREF))		(4)
8		L0?PDUr CANCEL TWAIT	Mr(CP_PI_R(1,CREF,PI1_R))	(P)	(5)
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
11		+MTCA_CS(2,0)			check N2
12		L0?PDUr	Mr(CP_R(1,CREF))		
13		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI1_R))	(P)	(7)
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
16		+MTCA_CS(3,0)			check N3
17		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		
18		CPAT!CP_M START TWAIT	S_CONNECT		(8)
19		L0?PDUr CANCEL TWAIT	Mr(CN_PI_R(1,CREF,PI1_R))	(P)	(9)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		+MTCA_CS(10,0)			check N10
21		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
22		+MTCA_CS(4,0)			check N4
23		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(10)
24		?TIMEOUT TWAIT		(I)	no response
25		+MTCA_PO_N00(0)			postamble N0
26		?TIMEOUT TWAIT		(I)	no response
27		+MTCA_PO_N00(0)			postamble N0
28		?TIMEOUT TWAIT		(I)	no response
29		+MTCA_PO_N00(0)			postamble N0
30		?TIMEOUT TAC		(I)	no response
31		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) A valid fallback allowed videotelephony SETUP message without a sending complete information element is sent to a phone
(3) A SETUP ACKNOWLEDGE message containing PI=#1 is received −> PASS
(4) An IFORMATION message with sufficient called number information and with the sending complete information element is sent
(5) A CALL PROCEEDING message containing PI=#1 is received −> PASS
(6) A PROGRESS message containing PI=#1 is received −> PASS
(7) An ALERTING message containing PI=#1 is received −> PASS
(8) This coordination message indicates to the slave component to act as lift the hand−set
(9) A CONNECT message is received with PI=#1 before −> PASS
(10) No control message containing PI=#1 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC11_16

Group : NT7VAC/VTL/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end−to−end ISDN, further call progress information may be available in−band" and enters the relevant basic call state.

Configuration : CONFIGT

Default : MTCA_DEF(0)

Comments : 7.7, EN 300 403−1 5.1.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTCT : PTCT_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		L0!PDUs (PTC_ACTIVATED:=FALSE, PTCT_ACTIVATED:=TRUE) START TAC	Ms(SU_FBA_S(CREF, H_VTL, CDPN_PSTN))		(2)
4		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF,PI1_R))	(P)	(3)
5		+MTCA_CS(3,0)			check N3
6		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
7		+MTCA_CS(2,0)			check N2
8		L0?PDUr CANCEL TAC, START TWAIT	Mr(CP_R(1,CREF))		
9		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI1_R))	(P)	(5)
10		+MTCA_CS(4,0)			check N4
11		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
12		+MTCA_CS(3,0)			check N3
13		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		
14		CPAT!CP_M START TWAIT	S_CONNECT		(6)
15		L0?PDUr CANCEL TWAIT	Mr(CN_PI_R(1,CREF,PI1_R))	(P)	(7)
16		+MTCA_CS(10,0)			check N10
17		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
18		+MTCA_CS(4,0)			check N4
19		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(8)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		?TIMEOUT TWAIT		(I)	no respon se
21		+MTCA_PO_N00(0)			postam ble N0
22		?TIMEOUT TWAIT		(I)	no respon se
23		+MTCA_PO_N00(0)			postam ble N0
24		?TIMEOUT TAC		(I)	no respon se
25		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) A valid fallback allowed videotelephony SETUP message with a sending complete information element is sent to a phone
(3) A CALL PROCEEDING message containing PI=#1 is received −> PASS
(4) A PROGRESS message containing PI=#1 is received −> PASS
(5) An ALERTING message containing PI=#1 is received −> PASS
(6) This coordination message indicates to the slave component to act as lift the hand−set
(7) A CONNECT message is received with PI=#1 before −> PASS
(8) No control message containing PI=#1 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC12_01

Group : NT7VAC/VTL/ORIG/FBN/

Purpose : Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic, and not containing a LLC,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4.1, 5.1.4, 5.1.5.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_NoSCI_S(CREF, H_VTL))		(2)
3		L0?PDUr CANCEL TAC, START T_MIN(PC_T302MIN) , START T_MAX(PC_T302MAX)	Mr(SUA_R(1,CREF))	(P)	(3)
4		?TIMEOUT T_MIN			(4)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI8_R))	(P)	(5)
6		+MTCA_CHECK_IN_BAND_TA(0)			(6)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(7)
9		+MTCA_PO_N00(0)			postamble N0
10		?TIMEOUT T_MAX		(F)	(8)
11		+MTCA_PO_N00(0)			postamble N0
12		?TIMEOUT TAC		(I)	no response
13		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) A valid fallback not allowed videotelephony SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received. The IUT has entered N02.
(4) Minimum duration allowed for T302 has passed by. Wait for a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 has been received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 has been received −> FAIL
(8) Maximum duration allowed for T302 has passed by. −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC12_02

Group : NT7VAC/VTL/ORIG/FBN/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.2.5.4, 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBN_N3 (H_VTL)			(2)
3		START T_MIN(PC_T310MIN) , START T_MAX(PC_T310MAX)			
4		?TIMEOUT T_MIN			(3)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
6		+MTCA_CHECK_IN_BAND_TA(0)			(5)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	(7)
11		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) Minimum duration allowed for T310 has passed by. Wait for a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL
(7) Maximum duration allowed for T302 has passed by. −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC12_03

Group : NT7VAC/VTL/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, on receipt a videotelephony fallback not allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Overlap sending call state N2.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.4, 7.6, EN 300 403−1 5.1.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_NoSCI_S(CREF, H_VTL))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI8_R))	(P)	(3)
4		+MTCA_CHECK_IN_BAND_TA(0)			(4)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TAC		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) A valid fallback not allowed videotelephony SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received with PI=#8 −> PASS
(4) Test step where an operator will check in−band tone−announcement
(5) A SETUP ACKNOWLEDGE without PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC12_04

Group : NT7VAC/VTL/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, having received a videotelephony fallback not allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in−band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.4, 7.6, EN 300 403−1 5.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBN_S(CREF, H_VTL, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF, PI8_R))	(P)	(5)
8		+MTCA_CHECK_IN_BAND_TA(0)			
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(6)
11		CPA1!CP_M START TWAIT	S_ALERTING		(7)
12		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI8_R))	(P)	(9)
13		+MTCA_CHECK_IN_BAND_TA(0)			
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(10)
16		CPA1!CP_M START TWAIT	S_CONNECT		(11)
17		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(12)
18		+MTCA_PO_N00(0)			postamble N0
19		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
20		+MTCA_CHECK_IN_BAND_TA(0)			
21		+MTCA_CS(4,0)			check N4

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		?TIMEOUT TWAIT		(I)	no respon se
23		+MTCA_PO_N00(0)			postam ble N0
24		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
25		+MTCA_CHECK_IN_BAND_ TA(0)			
26		+MTCA_CS(3,0)			check N3
27		?TIMEOUT TWAIT		(I)	no respon se
28		+MTCA_PO_N00(0)			postam ble N0
29		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
30		+MTCA_CHECK_IN_BAND_TA(0)			
31		+MTCA_PO_N00(0)			postam ble N0
32		?TIMEOUT TAC		(I)	no respon se
33		+MTCA_PO_N00(0)			postam ble N0
34		?TIMEOUT TWAIT		(I)	no respon se
35		+END_PTC1			(14)

Detailed Comments : (1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid fallback not allowed videotelephony SETUP message with the sending complete information element is sent to the slave component
(5) Subtree to receive PI=#8 in one of following call control messages
(6) A CALL PROCEEDING message containing PI=#8 is received
(7) A CALL PROCEEDING message not containing PI=#8 is received
(8) This coordination message indicates to the slave component to send an ALERTING message.
(9) An ALERTING message containing PI=#8 is received
(10) An ALERTING message not containing PI=#8 is received
(11) This coordination message indicates to the slave component to send a CONNECT message.
(12) A CONNECT message is received without receiving PI=#8 before −> FAIL
(13) A PROGRESS message containing PI=#8 is received
(14) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : VTC12_05

Group : NT7VAC/VTL/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 7.7, EN 300 403−1 5.1.1, 5.1.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_S(CREF, H_VTL, CDPN_PSTN))		(2)
3		L0?PDUr CANCEL TAC	Mr(RC_CAU_R(1,CREF ,65))	(P)	(3)
4		+MTCA_CS(0,0)			check N0
5		?TIMEOUT TAC		(I)	no respon se
6		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed videotelephony SETUP message with a sending complete information element is sent to a PSTN destination
(3) A RELEASE COMPLETE message is received with the cause value #65 −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC12_06

Group : NT7VAC/VTL/ORIG/FBN/

Purpose : Verify that the IUT, in Overlap Sending call state N2, having received a videotelephony fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 7.7, EN 300 403−1 5.1.5.2, 5.3.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_PSTN_NoSCI_S(CREF, H_VTL))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))		
4		L0!PDUs START TWAIT	Ms(IN_PSTN_S(0,CREF))		(3)
5		L0?PDUr CANCEL TWAIT	Mr(DI_CAU_R(1,CREF, 65))	(P)	(4)
6		+MTCA_CS(12,0)			check N12
7		?TIMEOUT TWAIT		(I)	no response
8		+MTCA_PO_N00(0)			postamble N0
9		?TIMEOUT TAC		(I)	no response
10		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) A valid fallback not allowed videotelephony SETUP message without a sending complete information element is sent to a PSTN destination
(3) An IFORMATION message with sufficient called number information and with the sending complete information elemet is sent
(4) A DISCONNECT message is received with the cause value #65 −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC13_01

Group : NT7VAC/VTL/ORIG/CMN/

Purpose : Verify that the IUT, at the originating interface, in Active call state N10, with a call of the videotelephony teleservice in progress in a 1B−channel mode, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_IC_N10O (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(0)			(5)
6		+MTCA_CS(12,0)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(1,CREF))	(F)	(6)
8		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Active call state N10 on the initial channel
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC13_02

Group : NT7VAC/VTL/ORIG/CMN/

Purpose : Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, with a call of the videotelephony teleservice in progress in a 2B−channel mode,
is capable of sending a DISCONNECT message, on CR1, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF_2B(0)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_2B_OUT)			(1)
2		+ MTCA_PR_2B_N10O (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(0)			(5)
6		+MTCA_CS_2B(12,10,0)			check N12
7		+MTCA_PO_2B_N00(0)			postam ble N0
8		L0?PDUr CANCEL TWAIT	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_2B_N00(0)			postam ble N0
10		?TIMEOUT TWAIT		(I)	
11		+MTCA_PO_2B_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Active call state N10 on the initial and the second channel
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC21_01

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=videotelephony_ic, and not containing a LLC and enters the Call present call state N6.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 a), 7.6 a)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP(H_VTL)		(3)
4		[PC_POINT_TO_POINT]			(4)
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_R, CHIp_R,H_VTL))	(P)	(5)
6		+MTCA_CS(6,1)			check −state
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(6)
11		[NOT PC_POINT_TO_POINT]			(7)
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_FBA_R(CHIb_R, CHIp_R,H_VTL))	(P)	(5)
13		+MTCA_CS(6,1)			check −state
14		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
15		+MTCA_PO_N00(1)			postamble N0
16		?TIMEOUT TWAIT		(I)	no response
17		+END_PTC1			(6)

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to PTC1 to send a SETUP message.
(4) Check for point to point configuration

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Test Case Dynamic Behaviour
Detailed Comments : … (5) a valid fallback allowed videotelephony_ic SETUP message is received −> PASS (6) Test step to terminate all actions at PTC1. (7) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : VTC21_02

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither a BC nor a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_03

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_04

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_05

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_06

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_07

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_08

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videotelephony_ic ,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_VTL)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=videotelephony_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_09

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videotelephony_ic ,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_VTL)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=videotelephony_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_10

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videotelephony_ic , assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_VTL)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=videotelephony_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_11

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=telephony,
assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_12

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_13

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech and a HLC=telephony,
assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_14

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech and a HLC=telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c), 7.6 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_15

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Overlap Receiving call state N25, having sent a videotelephony fallback allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP (H_VTL)		(3)
4		+mtca_n25			(4)
5		L0!PDUs	Ms(SUA_S(1,CREF,B_CHN))		(5)
6		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
7		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(7)
8		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
9		+MTCA_CS(12,1)			check N12
10		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(8)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
		mtca_n25			
14		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_ANY_R,CHIp_ANY_R, H_VTL))	(P)	
15		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIp_R, H_VTL))	(P)	
16		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIb_R, H_VTL))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the slave component to send a 7 kHz fallback allowed SETUP message.
(4) Subtree to reach state N25
(5) A SETUP ACKNOWLEDGE messge is sent. The IUT enters N25.
(6) This coordination message indicates to the slave component to send a DISCONNECT message.
(7) A DISCONNECT message containing a PI=#8 has been received −> PASS
(8) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC21_16

Group : NT7VAC/VTL/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
6		+MTCA_CS(12,1)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(5)
8		+MTCA_PO_N00(1)			postam ble N0
9		?TIMEOUT TWAIT		(I)	no respon se
10		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 has been received −> PASS
(5) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC21_17

Group : NT7VAC/VTL/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC=videotelephony_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF, HLC_ic(H_VTL)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_18

Group : NT7VAC/VTL/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC=videotelephony_nex, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF, HLC_nex(H_VTL)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with no BC and a HLC=videotelephony_nex is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_19

Group : NT7VAC/VTL/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC,
assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_20

Group : NT7VAC/VTL/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC,
assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC= is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_21

Group : NT7VAC/VTL/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c),

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_22

Group : NT7VAC/VTL/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_23

Group : NT7VAC/VTL/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_24

Group : NT7VAC/VTL/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC21_25

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CP_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_26

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 but not containing either a BC or a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(AL_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) An ALERTING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_27

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing either a BC or a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(PG_PI_S(1,CREF))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
((3) A PROGRESS message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_28

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs	Ms(AL_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) An ALERTING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_29

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d),

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(PG_PI_S(1,CREF))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A PROGRESS message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_30

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CP_BCAP_PI_S(1, CREF,B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, no BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_31

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(AL_BCAP_PI_S(1, CREF,B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_32

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(PG_BCAP_PI_S(1, CREF, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_33

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(AL_BCAP_PI_S(1, CREF, B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_34

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(PG_BCAP_PI_S(1, CREF, BCAP_SPEECH))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_35

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CP_SPEECH_HLC _PI_S(1,CREF,B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_36

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and HLC=telephony,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(AL_SPEECH_HLC_PI_S(1,CREF,B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_37

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and HLC=telephony,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(PG_SPEECH_HLC_PI_S(1,CREF, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_38

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(AL_SPEECH_HLC_PI_S(1,CREF, B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_39

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(PG_SPEECH_HLC_PI_S(1,CREF, HLC_TELEPHONY))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : VTC21_40

Group : NT7VAC/VTL/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.6 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videotelephony SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : VTC22_01

Group : NT7VAC/VTL/DEST/FBN/

Purpose : Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic, and not containing a LLC and enters the Call present call state N6.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 7.5.2.1 1), 7.6 first bullet item

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBN_S START TWAIT	S_FBN_SETUP (H_VTL)		(3)
4		[PC_POINT_TO_POINT]			(4)
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_R(CHIb_R, CHIp_R, H_VTL))	(P)	(5)
6		+MTCA_CS(6,1)			check −state
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			
11		[NOT PC_POINT_TO_POINT]			(6)
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_FBN_R(CHIb_R, CHIp_R, H_VTL))	(P)	(5)
13		+MTCA_CS(6,1)			check −state
14		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
15		+MTCA_PO_N00(1)			postamble N0
16		?TIMEOUT TWAIT		(I)	no response
17		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to PTC1 to send a SETUP message.
(4) Check for point to point configuration

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Test Case Dynamic Behaviour
Detailed Comments : … (5) a valid fallback not allowed videotelephony SETUP message is received −> PASS (6) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : VTC22_02

Group : NT7VAC/VTL/DEST/FBN/

Purpose : Verify that the IUT, in Overlap Receiving call state N25, having sent a videotelephony fallback not allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBN_S START TWAIT	S_FBN_SETUP(H_VTL)		(3)
4		+mtca_n25			(4)
5		L0!PDUs	Ms(SUA_S(1,CREF,B_CHN))		(5)
6		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
7		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(7)
8		+MTCA_CHECK_IN_BAND_TA(1)			Check−Ta
9		+MTCA_CS(12,1)			check N12
10		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(8)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
		mtca_n25			
14		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_R(CHIb_ANY_R,CHIp_ANY_R, H_VTL))	(P)	
15		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIp_R, H_VTL))	(P)	
16		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIb_R, H_VTL))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the slave component to send a videotelephony fallback not allowed SETUP message.
(4) Subtree to reach state N25
(5) A SETUP ACKNOWLEDGE messge is sent. The IUT enters N25.
(6) This coordination message indicates to the slave component to send a DISCONNECT message.
(7) A DISCONNECT message containing a PI=#8 has been received −> PASS
(8) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC22_03

Group : NT7VAC/VTL/DEST/FBN/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback not allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBN_N9 (H_VTL)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
6		+MTCA_CS(12,1)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(5)
8		+MTCA_PO_N00(1)			postam ble N0
9		?TIMEOUT TWAIT		(I)	no respon se
10		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback not allowed videotelephony SETUP message is received.
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 has been received −> PASS
(5) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC23_01

Group : NT7VAC/VTL/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, in Active call state N10 for CR1 and in the Null call state N0 for CR2, in order to establish CR2 in a videotelephony call requiring two connections,
is capable of sending a SETUP message containing a single BC=UDI and a single HLC=videotelephony_sc and enters the Call present call state N6.

Configuration : CONFIG1

Default :

Comments : 7.5.2.2, 7.6 (last paragraph)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1 : PTC1_2B_IN)			(1)
2		ACTIVATE(MTCA_DEF(1))			(2)
3		+MTCA_PR_IC_N10I (H_VTL)			(3)
4		CPA1!CP_M_SC_S START TWAIT	S_SC_SETUP(H_VTL)		(4)
5		+rcv_setup_sc			
6		ACTIVATE(MTCA_DEF_2B(1))			(5)
7		+MTCA_PO_2B_N00(1)			postamble N0
		rcv_setup_sc			
8		[PC_POINT_TO_POINT]			(6)
9		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_SC_R(CHIb_R, CHIp_R, H_VTL))	(P)	(7)
10		+MTCA_CS_2B(10,6,1)			check N6
11		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
14		[NOT PC_POINT_TO_POINT]			(8)
15		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_SC_CH_R(CHIb_R, H_VTL))	(P)	(7)
16		+MTCA_CS_2B(10,6,1)			check N6
17		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
18		?TIMEOUT TWAIT		(I)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) Test step PTC1 for Incoming call
(2) Activation of the default tree for one call.
(3) Preamble to the Active call state N10 for the first call.
(4) This coordination message indicates to PTC1 to send a fallback not allowed SETUP message.
(5) Activation of the default tree for a 2B call
(6) Check for point to point configuration
(7) a valid fallback not allowed videotelephony SETUP message is received −> PASS
(8) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : VTC23_02

Group : NT7VAC/VTL/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, in Active call state N10, with a call of the videotelephony teleservice in progress in a 1B−channel mode, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBN_N9 (H_VTL)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	
5		CPA1!CP_M START TWAIT	S_DISCONNECT		(4)
6		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(5)
7		+MTCA_CHECK_IN_BAND_TA(1)			(6)
8		+MTCA_CS(12,1)			check N12
9		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(7)
10		+MTCA_PO_N00(1)			postamble N0
11		?TIMEOUT TWAIT		(I)	no response
12		+MTCA_PO_N00(1)			postamble N0
13		?TIMEOUT TAC		(F)	no response
14		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback not allowed videotelephony_ic SETUP message is received.
(3) The videotelephony_ic telephony call is accepted
(4) This coordination message indicates to the slave component to send a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 is received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : VTC23_03

Group : NT7VAC/VTL/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, with a call of the videotelephony teleservice in progress in a 2B−channel mode,
is capable of sending a DISCONNECT message, on CR1, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default :

Comments : 5.5.2, 5.6.2, 7.5.3, 7.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1 : PTC1_2B_IN)			(1)
2		ACTIVATE(MTCA_DEF(1))			(2)
3		+MTCA_PR_IC_N10I (H_VTL)			(3)
4		CPA1!CP_M_SC_S START TWAIT	S_SC_SETUP(H_VTL)		(4)
5		+rcv_setup_sc			
6		ACTIVATE(MTCA_DEF_2B(1))			(5)
7		+send_cn_sc			
8		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
9		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(7)
10		+MTCA_CHECK_IN_BAND_T A(1)			(8)
11		+MTCA_CS_2B(12,10,1)			check N12
12		+MTCA_PO_2B_N00(1)			postam ble N0
13		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(9)
14		+MTCA_PO_2B_N00(1)			postam ble N0
15		?TIMEOUT TWAIT		(I)	no respon se
16		+MTCA_PO_2B_N00(1)			postam ble N0
		rcv_setup_sc			
17		[PC_POINT_TO_POINT]			(10)
18		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_SC_R(CHIb_R, CHIp_R, H_VTL))	(P)	(11)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		L0?SETUPr [NOT PC_BASIC] (CREF2 := SETUPr.mun.cr.cr_r, B_CHN2 := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_SC_CH_R(CHIp_R, H_VTL))	(P)	(11)
20		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN2 := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_SC_CH_R(CHIb_R, H_VTL))	(P)	(11)
21		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
22		+MTCA_PO_2B_N00(1)			postamble N0
23		?TIMEOUT TWAIT		(I)	no response
24		+MTCA_PO_N00(1)			postamble N0
25		[NOT PC_POINT_TO_POINT]			(12)
26		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_SC_CH_R(CHIb_R, H_VTL))	(P)	(11)
27		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
28		+MTCA_PO_2B_N00(1)			postamble N0
29		?TIMEOUT TWAIT		(I)	no response
30		+MTCA_PO_N00(1)			postamble N0
		send_cn_sc			
31		L1!PDUs	Ms(CP_S(1,CREF2,B_CHN2))		
32		L0!PDUs START TAC	Ms(CN_S(1,CREF2))		(13)
33		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF2))	(P)	
34		?TIMEOUT TAC		(F)	no response
35		+MTCA_PO_2B_N00(1)			postamble N0

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Test Case Dynamic Behaviour	
Detailed Comments :	(1) Test step PTC1 for Incoming two b−channel call (2) Activation of the default tree (3) Preamble to reach call state N10 on the initial channel in a videotelephony call (4) This coordination message indicates to PTC1 to send a SETUP message for the additional channel. (5) Activation of the default tree for a 2B call (6) This coordination message indicates to the slave component to send a DISCONNECT message. (7) A DISCONNECT message containing a PI=#8 is received −> PASS (8) Test step where an operator will check in−band tone−announcement (9) A DISCONNECT message not containing a PI=#8 is received −> FAIL (10) Check for point to point configuration (11) A videotelephony SETUP message for a second call is expected (12) Check for point to multipoint configuration (13) The videotelephony SECOND call is accepted

Test Case Dynamic Behaviour

Test Case Name : ATC11_01

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=audiographic_ic , and not containing an LLC, and on completion of a successful subscription check for the prime service,
is capable of sending a CONNECT message and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 8.6, 8.5.1.1 b) , EN 300 403−1 5.1.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_AGC)))			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_AGC, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
8		CPA1!CP_M START TWAIT	S_CONNECT		
9		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))		
10		+MTCA_CS(10,0)			
11		?TIMEOUT TWAIT		(F)	
12		+MTCA_PO_N00(0)			
13		?TIMEOUT TAC		(F)	no response
14		+MTCA_PO_N00(0)			postamble N0
15		?TIMEOUT TWAIT		(I)	no response
16		+END_PTC1			(6)

Detailed Comments : (1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid SETUP message with the complete called party information is sent.
(5) A CALL PROCEEDING message is received.
(6) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : ATC11_02

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message, and on failure of the subscription check for the prime service,
releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 8.5.1.1 b), 8.6, EN 300 403−1 5.1.5.1, 5.3.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			Preamble N00
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_S(CREF, H_AGC, CDPN_PTC1))		(1)
3		L0?PDUr CANCEL TAC	Mr(RC_CAU_R(1,CREF,57))	(P)	(2)
4		+MTCA_CS(0,0)			check N0
5		?TIMEOUT TAC			
6		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) A valid fallback allowed audiographic conference SETUP message with the sending complete information element is sent. No PTC is activated.
(2) A RELEASE COMPLETE message is received with the cause value #57.

Test Case Dynamic Behaviour

Test Case Name : ATC11_03

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=audiographic_ic and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 8.5.1.1 c), 8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_AGC)))			(1)
2		+MTCA_PR_FBA_N3 (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_ic(H_AGC)))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to audiographic_ic is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to audiographic_ic is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_04

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=audiographic_ic and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 8.5.1.1 c), 8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_AGC)))			(1)
2		+MTCA_PR_FBA_N4 (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_ic(H_AGC)))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to audiographic_ic is received −>PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to audiographic_ic is received −>FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_05

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 8.5.1.1 c), 8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N3 (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_06

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 8.5.1.1 c), 8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N4 (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_07

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 8.5.1.1 c), 8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_SPEECH, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N3 (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to speech and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to speech or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_08

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 8.5.1.1 c), 8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT (BCAP_SPEECH, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N4 (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to speech and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to speech or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_09

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message,
is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5, and a BC=speech, and a HLC=telephony or no HLC and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 8.5.1.1 d), 8.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_AGC, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_SPEECH_OPT_HLC_R(1,CREF, H_AGC))	(P)	(5)
8		+MTCA_CS(3,0)			check N3
9		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(6)
10		CPA1!CP_M START TWAIT	S_ALERTING		(7)
11		L0?PDUr CANCEL TWAIT	Mr(AL_SPEECH_OPT_HLC_R(1,CREF, H_AGC))	(P)	(8)
12		+MTCA_CS(4,0)			check N4
13		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(9)
14		CPA1!CP_M START TWAIT	S_CONNECT		(10)
15		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(11)
16		+MTCA_PO_N00(0)			
17		L0?PDUr CANCEL TWAIT	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_AGC))	(P)	(12)
18		+MTCA_CS(4,0)			check N4
19		?TIMEOUT TWAIT		(I)	no response
20		+MTCA_PO_N00(0)			postamble N0

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		L0?PDUr CANCEL TWAIT	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_AGC))	(P)	(12)
22		+MTCA_CS(3,0)			check N3
23		?TIMEOUT TWAIT		(I)	no response
24		+MTCA_PO_N00(0)			postamble N0
25		L0?PDUr CANCEL TAC	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_AGC))	(P)	(12)
26		+MTCA_PO_N00(0)			postamble N0
27		?TIMEOUT TAC			no response
28		+MTCA_PO_N00(0)			postamble N0
29		?TIMEOUT TWAIT		(I)	no response
30		+END_PTC1			(13)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid fallback allowed audiographic conference SETUP message with the sending complete information element is sent to the first slave remote user
(5) A CALL PROCEEDING message containing PI=#5 and a BC=speech and optionally HLC=telephony
(6) A CALL PROCEEDING message not containing PI=#5 is received
(7) This coordination message indicates to the slave component to send an ALERTING message.
(8) An ALERTING message containing PI=#5 and a BC=speech and optionally HLC=telephony
(9) An ALERTING message not containing PI=#5 is received
(10) This coordination message indicates to the slave component to send a CONNECT message.
(11) No control message containing a PI=#5 anda BC=speech and optionally HLC=telephony have been received before the CONNECT message
(12) A PROGRESS message containing PI=#5 and a BC=speech and optionally HLC=telephony
(13) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : ATC11_10

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Overlap Sending call state N2, on receipt of an audiographic conference fallback allowed SETUP message,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.3.4.1, 5.1.4, 5.1.5.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_NoSCI_S(CREF, H_AGC))		(2)
3		L0?PDUr CANCEL TAC, START T_MIN(PC_T302MIN) , START T_MAX(PC_T302MAX)	Mr(SUA_R(1,CREF))	(P)	(3)
4		?TIMEOUT T_MIN			(4)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI8_R))	(P)	(5)
6		+MTCA_CHECK_IN_BAND_TA(0)			(6)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(7)
9		+MTCA_PO_N00(0)			postamble N0
10		?TIMEOUT T_MAX		(F)	(8)
11		+MTCA_PO_N00(0)			postamble N0
12		?TIMEOUT TAC		(I)	no response
13		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback allowed audiographic conference SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received. The IUT has entered N02.
(4) Minimum duration allowed for T302 has passed by. Wait for a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 has been received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 has been received −> FAIL
(8) Maximum duration allowed for T302 has passed by. Test failed..

Test Case Dynamic Behaviour

Test Case Name : ATC11_11

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.2.5.4, 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBA_N3 (H_AGC)			(2)
3		START T_MIN(PC_T310MIN) , START T_MAX(PC_T310MAX)			
4		?TIMEOUT T_MIN			(3)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
6		+MTCA_CHECK_IN_BAND_TA(0)			(5)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	no respon se
11		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) Minimum duration allowed for T310 has passed by. Wait for a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_12

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Overlap sending call state N2.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.4, 8.6, EN 300 403−1 5.1.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_NoSCI_S(CREF, H_AGC))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI8_R))	(P)	(3)
4		+MTCA_CHECK_IN_BAND_TA(0)			(4)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TAC		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback allowed audiographic conference SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received with PI=#8 −> PASS
(4) Test step where an operator will check in−band tone−announcement
(5) A SETUP ACKNOWLEDGE without PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_13

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, of an audiographic conference fallback allowed SETUP message with a sending complete indication,
is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in−band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.4, 8.6, EN 300 403−1 5.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			(2)
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(3)
5		CPA1!CP_M	R_SETUP		(4)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_AGC, CDPN_PTC1))		(5)
7		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF, PI8_R))	(P)	(6)
8		+MTCA_CHECK_IN_BAND_TA(0)			
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(7)
11		CPA1!CP_M START TWAIT	S_ALERTING		(8)
12		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI8_R))	(P)	(9)
13		+MTCA_CHECK_IN_BAND_TA(0)			
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(10)
16		CPA1!CP_M START TWAIT	S_CONNECT		(11)
17		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(12)
18		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
19		+MTCA_CHECK_IN_BAND_TA(0)			
20		+MTCA_CS(4,0)			check N4
21		?TIMEOUT TWAIT		(I)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		+MTCA_PO_N00(0)			postamble N0
23		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
24		+MTCA_CHECK_IN_BAND_TA(0)			
25		+MTCA_CS(3,0)			check N3
26		?TIMEOUT TWAIT		(I)	no response
27		+MTCA_PO_N00(0)			postamble N0
28		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
29		+MTCA_CHECK_IN_BAND_TA(0)			
30		+MTCA_PO_N00(0)			postamble N0
31		?TIMEOUT TAC		(I)	no response
32		+MTCA_PO_N00(0)			postamble N0
33		?TIMEOUT TWAIT		(I)	no response
34		+END_PTC1			(14)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(4) This coordination message indicates to the slave component to expect a SETUP message.
(5) A valid fallback allowed audiographic conference SETUP message with the sending complete information element is sent to the slave remote user
(6) A CALL PROCEEDING message containing PI=#8 is received
(7) A CALL PROCEEDING message not containing PI=#8 is received
(8) This coordination message indicates to the slave component to send an ALERTING message.
(9) An ALERTING message containing PI=#8 is received
(10) An ALERTING message not containing PI=#8 is received
(11) This coordination message indicates to the slave component to send a CONNECT message.
(12) A CONNECT message is received without receiving PI=#8 before −> FAIL

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Test Case Dynamic Behaviour
Detailed Comments : … (13) A PROGRESS message containing PI=#8 is received (14) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : ATC11_14

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end−to−end ISDN, further call progress information may be available in−band" and enters the relevant basic call state.

Configuration : CONFIGT

Default : MTCA_DEF(0)

Comments : 8.7, EN 300 403−1 5.1.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTCT : PTCT_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		L0!PDUs (PTC_ACTIVATED:=FALSE, PTCT_ACTIVATED:=TRUE) START TAC	Ms(SU_FBA_PSTN_NoSCI_S(CREF, H_AGC))		(2)
4		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI1_R))	(P)	(3)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))		
7		L0!PDUs START TWAIT	Ms(IN_PSTN_S(0,CREF))		(4)
8		L0?PDUr CANCEL TWAIT	Mr(CP_PI_R(1,CREF,PI1_R))	(P)	(5)
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
11		+MTCA_CS(2,0)			check N2
12		L0?PDUr	Mr(CP_R(1,CREF))		
13		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI1_R))	(P)	(7)
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
16		+MTCA_CS(3,0)			check N3
17		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		
18		CPAT!CP_M START TWAIT	S_CONNECT		(8)
19		L0?PDUr CANCEL TWAIT	Mr(CN_PI_R(1,CREF,PI1_R))	(P)	(9)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		+MTCA_CS(10,0)			check N10
21		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
22		+MTCA_CS(4,0)			check N4
23		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(10)
24		?TIMEOUT TWAIT		(I)	no response
25		+MTCA_PO_N00(0)			postamble N0
26		?TIMEOUT TWAIT		(I)	no response
27		+MTCA_PO_N00(0)			postamble N0
28		?TIMEOUT TWAIT		(I)	no response
29		+MTCA_PO_N00(0)			postamble N0
30		?TIMEOUT TAC		(I)	no response
31		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) A valid fallback allowed audiographic conference SETUP message without a sending complete information element is sent to a phone
(3) A SETUP ACKNOWLEDGE message containing PI=#1 is received −> PASS
(4) An IFORMATION message with sufficient called number information and with the sending complete information element is sent
(5) A CALL PROCEEDING message containing PI=#1 is received −> PASS
(6) A PROGRESS message containing PI=#1 is received −> PASS
(7) An ALERTING message containing PI=#1 is received −> PASS
(8) This coordination message indicates to the slave component to act as lift the hand−set
(9) A CONNECT message is received with PI=#1 before −> PASS
(10) No control message containing PI=#1 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC11_15

Group : NT7VAC/AGC/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end−to−end ISDN, further call progress information may be available in−band" and enters the relevant basic call state.

Configuration : CONFIGT

Default : MTCA_DEF(0)

Comments : 8.7, EN 300 403−1 5.1.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTCT : PTCT_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		L0!PDUs (PTC_ACTIVATED:=FALSE, PTCT_ACTIVATED:=TRUE) START TAC	Ms(SU_FBA_S(CREF, H_AGC, CDPN_PSTN))		(2)
4		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF,PI1_R))	(P)	(3)
5		+MTCA_CS(3,0)			check N3
6		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
7		+MTCA_CS(2,0)			check N2
8		L0?PDUr CANCEL TAC, START TWAIT	Mr(CP_R(1,CREF))		
9		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI1_R))	(P)	(5)
10		+MTCA_CS(4,0)			check N4
11		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
12		+MTCA_CS(3,0)			check N3
13		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		
14		CPAT!CP_M START TWAIT	S_CONNECT		(6)
15		L0?PDUr CANCEL TWAIT	Mr(CN_PI_R(1,CREF,PI1_R))	(P)	(7)
16		+MTCA_CS(10,0)			check N10
17		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
18		+MTCA_CS(4,0)			check N4
19		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(8)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		?TIMEOUT TWAIT		(I)	no respon se
21		+MTCA_PO_N00(0)			postam ble N0
22		?TIMEOUT TWAIT		(I)	no respon se
23		+MTCA_PO_N00(0)			postam ble N0
24		?TIMEOUT TAC		(I)	no respon se
25		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) A valid fallback allowed audiographic conference SETUP message with a sending complete information element is sent to a phone
(3) A CALL PROCEEDING message containing PI=#1 is received −> PASS
(4) A PROGRESS message containing PI=#1 is received −> PASS
(5) An ALERTING message containing PI=#1 is received −> PASS
(6) This coordination message indicates to the slave component to act as lift the hand−set
(7) A CONNECT message is received with PI=#1 before −> PASS
(8) No control message containing PI=#1 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC12_01

Group : NT7VAC/AGC/ORIG/FBN/

Purpose : Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC=UDI/TA and a single HLC=audiographic_ic , and not containing an LLC,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.3.4.1, 5.1.4, 5.1.5.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_NoSCI_S(CREF, H_AGC))		(2)
3		L0?PDUr CANCEL TAC, START T_MIN(PC_T302MIN) , START T_MAX(PC_T302MAX)	Mr(SUA_R(1,CREF))	(P)	(3)
4		?TIMEOUT T_MIN			(4)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI8_R))	(P)	(5)
6		+MTCA_CHECK_IN_BAND_TA(0)			(6)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(7)
9		+MTCA_PO_N00(0)			postamble N0
10		?TIMEOUT T_MAX		(F)	(8)
11		+MTCA_PO_N00(0)			postamble N0
12		?TIMEOUT TAC		(I)	no response
13		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed audiographic conference SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received. The IUT has entered N02.
(4) Minimum duration allowed for T302 has passed by. Wait for a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 has been received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 has been received −> FAIL
(8) Maximum duration allowed for T302 has passed by. −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC12_02

Group : NT7VAC/AGC/ORIG/FBN/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.2.5.4, 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBN_N3 (H_AGC)			(2)
3		START T_MIN(PC_T310MIN) , START T_MAX(PC_T310MAX)			
4		?TIMEOUT T_MIN			(3)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
6		+MTCA_CHECK_IN_BAND_TA(0)			(5)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	(7)
11		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) Minimum duration allowed for T310 has passed by. Wait for a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL
(7) Maximum duration allowed for T302 has passed by. −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC12_03

Group : NT7VAC/AGC/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, on receipt an audiographic conference fallback not allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Overlap sending call state N2.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.4, 8.6, EN 300 403−1 5.1.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_NoSCI_S(CREF, H_AGC))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI8_R))	(P)	(3)
4		+MTCA_CHECK_IN_BAND_TA(0)			(4)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TAC		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed audiographic conference SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received with PI=#8 −> PASS
(4) Test step where an operator will check in−band tone−announcement
(5) A SETUP ACKNOWLEDGE without PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC12_04

Group : NT7VAC/AGC/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, having an audiographic conference fallback not allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in−band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.4, 8.6, EN 300 403−1 5.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBN_S(CREF, H_AGC, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF, PI8_R))	(P)	(5)
8		+MTCA_CHECK_IN_BAND_TA(0)			
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(6)
11		CPA1!CP_M START TWAIT	S_ALERTING		(7)
12		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI8_R))	(P)	(9)
13		+MTCA_CHECK_IN_BAND_TA(0)			
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(10)
16		CPA1!CP_M START TWAIT	S_CONNECT		(11)
17		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(12)
18		+MTCA_PO_N00(0)			postamble N0
19		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
20		+MTCA_CHECK_IN_BAND_TA(0)			
21		+MTCA_CS(4,0)			check N4

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		?TIMEOUT TWAIT		(I)	no respon se
23		+MTCA_PO_N00(0)			postam ble N0
24		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
25		+MTCA_CHECK_IN_BAND_ TA(0)			
26		+MTCA_CS(3,0)			check N3
27		?TIMEOUT TWAIT		(I)	no respon se
28		+MTCA_PO_N00(0)			postam ble N0
29		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
30		+MTCA_CHECK_IN_BAND_TA(0)			
31		+MTCA_PO_N00(0)			postam ble N0
32		?TIMEOUT TAC		(I)	no respon se
33		+MTCA_PO_N00(0)			postam ble N0
34		?TIMEOUT TWAIT		(I)	no respon se
35		+END_PTC1			(14)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid fallback not allowed audiographic conference SETUP message with the sending complete information element is sent to the slave component
(5) Subtree to receive PI=#8 in one of following call control messages
(6) A CALL PROCEEDING message containing PI=#8 is received
(7) A CALL PROCEEDING message not containing PI=#8 is received
(8) This coordination message indicates to the slave component to send an ALERTING message.
(9) An ALERTING message containing PI=#8 is received
(10) An ALERTING message not containing PI=#8 is received
(11) This coordination message indicates to the slave component to send a CONNECT message.
(12) A CONNECT message is received without receiving PI=#8 before −> FAIL
(13) A PROGRESS message containing PI=#8 is received
(14) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : ATC12_05

Group : NT7VAC/AGC/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 8.7, EN 300 403−1 5.1.1, 5.1.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_S(CREF, H_AGC, CDPN_PSTN))		(2)
3		L0?PDUr CANCEL TAC	Mr(RC_CAU_R(1,CREF ,65))	(P)	(3)
4		+MTCA_CS(0,0)			check N0
5		?TIMEOUT TAC		(I)	no respon se
6		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed audiographic conference SETUP message with a sending complete information element is sent to a PSTN destination
(3) A RELEASE COMPLETE message is received with the cause value #65 −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC12_06

Group : NT7VAC/AGC/ORIG/FBN/

Purpose : Verify that the IUT, in Overlap Sending call state N2, having received an audiographic conference fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 8.7, EN 300 403−1 5.1.5.2, 5.3.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_PSTN_NoSCI_S(CREF, H_AGC))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))		
4		L0!PDUs START TWAIT	Ms(IN_PSTN_S(0,CREF))		(3)
5		L0?PDUr CANCEL TWAIT	Mr(DI_CAU_R(1,CREF, 65))	(P)	(4)
6		+MTCA_CS(12,0)			check N12
7		?TIMEOUT TWAIT		(I)	no response
8		+MTCA_PO_N00(0)			postamble N0
9		?TIMEOUT TAC		(I)	no response
10		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) A valid fallback not allowed audiographic conference SETUP message without a sending complete information element is sent to a PSTN destination
(3) An IFORMATION message with sufficient called number information and with the sending complete information elemet is sent
(4) A DISCONNECT message is received with the cause value #65 −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC13_01

Group : NT7VAC/AGC/ORIG/CMN/

Purpose : Verify that the IUT, at the originating interface, in Active call state N10, with a call of the audiographic conference teleservice in progress in a 1B−channel mode, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_IC_N10O (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(0)			(5)
6		+MTCA_CS(12,0)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(1,CREF))	(F)	(6)
8		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Active call state N10 on the initial channel
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC13_02

Group : NT7VAC/AGC/ORIG/CMN/

Purpose : Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, with a call of the audiographic conference teleservice in progress in a 2B−channel mode,
is capable of sending a DISCONNECT message, on CR1, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF_2B(0)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_2B_OUT)			(1)
2		+ MTCA_PR_2B_N10O (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(0)			(5)
6		+MTCA_CS_2B(12,10,0)			check N12
7		+MTCA_PO_2B_N00(0)			postam ble N0
8		L0?PDUr CANCEL TWAIT	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_2B_N00(0)			postam ble N0
10		?TIMEOUT TWAIT		(I)	
11		+MTCA_PO_2B_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Active call state N10 on the initial and the second channel
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC21_01

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=audiographic_ic , and not containing an LLC and enters the Call present call state N6.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 a), 8.6.1 a)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP(H_AGC)		(3)
4		[PC_POINT_TO_POINT]			(4)
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_R, CHIp_R,H_AGC))	(P)	(5)
6		+MTCA_CS(6,1)			check −state
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(6)
11		[NOT PC_POINT_TO_POINT]			(7)
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_FBA_R(CHIb_R, CHIp_R,H_AGC))	(P)	(5)
13		+MTCA_CS(6,1)			check −state
14		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
15		+MTCA_PO_N00(1)			postamble N0
16		?TIMEOUT TWAIT		(I)	no response
17		+END_PTC1			(6)

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to PTC1 to send a SETUP message.

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Test Case Dynamic Behaviour
Detailed Comments : … (4) Check for point to point configuration (5) a valid fallback allowed audiographic_ic SETUP message is received −> PASS (6) Test step to terminate all actions at PTC1. (7) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : ATC21_02

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither a BC nor a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_03

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_04

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_05

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_06

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_07

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_08

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=audiographic_ic ,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_AGC)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=audiographic_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_09

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=audiographic_ic ,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_AGC)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=audiographic_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_10

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=audiographic_ic , assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_AGC)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=audiographic_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_11

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=telephony,
assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_12

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_13

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech and a HLC=telephony,
assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_14

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech and a HLC=telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c), 8.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_15

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Overlap Receiving call state N25, having sent an audiographic conference fallback allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6.1, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP (H_AGC)		(3)
4		+mtca_n25			(4)
5		L0!PDUs	Ms(SUA_S(1,CREF,B_CHN))		(5)
6		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
7		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(7)
8		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
9		+MTCA_CS(12,1)			check N12
10		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(8)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
		mtca_n25			
14		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_ANY_R,CHIp_ANY_R, H_AGC))	(P)	
15		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIp_R, H_AGC))	(P)	
16		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIb_R, H_AGC))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the slave component to send a 7 kHz fallback allowed SETUP message.
(4) Subtree to reach state N25
(5) A SETUP ACKNOWLEDGE messge is sent. The IUT enters N25.
(6) This coordination message indicates to the slave component to send a DISCONNECT message.
(7) A DISCONNECT message containing a PI=#8 has been received −> PASS
(8) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC21_16

Group : NT7VAC/AGC/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6.1, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
6		+MTCA_CS(12,1)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(5)
8		+MTCA_PO_N00(1)			postam ble N0
9		?TIMEOUT TWAIT		(I)	no respon se
10		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 has been received −> PASS
(5) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC21_17

Group : NT7VAC/AGC/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC=audiographic_ic , assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF, HLC_ic(H_AGC)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_18

Group : NT7VAC/AGC/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC=audiographic conference_nex,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF, HLC_nex(H_AGC)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=audiographic_nex is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_19

Group : NT7VAC/AGC/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_20

Group : NT7VAC/AGC/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC,
assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC= is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_21

Group : NT7VAC/AGC/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c),

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_22

Group : NT7VAC/AGC/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_23

Group : NT7VAC/AGC/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_24

Group : NT7VAC/AGC/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC21_25

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CP_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_26

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 but not containing either a BC or a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(AL_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) An ALERTING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_27

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(PG_PI_S(1,CREF))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
((3) A PROGRESS message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_28

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs	Ms(AL_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) An ALERTING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_29

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d),

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(PG_PI_S(1,CREF))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A PROGRESS message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_30

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CP_BCAP_PI_S(1, CREF,B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, no BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_31

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(AL_BCAP_PI_S(1, CREF,B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_32

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(PG_BCAP_PI_S(1, CREF, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_33

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(AL_BCAP_PI_S(1, CREF, B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_34

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(PG_BCAP_PI_S(1, CREF, BCAP_SPEECH))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_35

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CP_SPEECH_HLC _PI_S(1,CREF,B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_36

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(AL_SPEECH_HLC_PI_S(1,CREF,B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_37

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(PG_SPEECH_HLC_PI_S(1,CREF, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_38

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(AL_SPEECH_HLC_PI_S(1,CREF, B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_39

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(PG_SPEECH_HLC_PI_S(1,CREF, HLC_TELEPHONY))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : ATC21_40

Group : NT7VAC/AGC/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed audiographic conference SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : ATC22_01

Group : NT7VAC/AGC/DEST/FBN/

Purpose : Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC=UDI/TA and a single HLC=audiographic_ic , and not containing an LLC and enters the Call present call state N6.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 8.5.2 1), 8.6.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBN_S START TWAIT	S_FBN_SETUP (H_AGC)		(3)
4		[PC_POINT_TO_POINT]			(4)
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_R(CHIb_R, CHIp_R, H_AGC))	(P)	(5)
6		+MTCA_CS(6,1)			check −state
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			
11		[NOT PC_POINT_TO_POINT]			(6)
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_FBN_R(CHIb_R, CHIp_R, H_AGC))	(P)	(5)
13		+MTCA_CS(6,1)			check −state
14		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
15		+MTCA_PO_N00(1)			postamble N0
16		?TIMEOUT TWAIT		(I)	no response
17		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to PTC1 to send a SETUP message.
(4) Check for point to point configuration

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Test Case Dynamic Behaviour
Detailed Comments : … (5) a valid fallback not allowed audiographic conference SETUP message is received −> PASS (6) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : ATC22_02

Group : NT7VAC/AGC/DEST/FBN/

Purpose : Verify that the IUT, in Overlap Receiving call state N25, having sent an audiographic conference fallback not allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBN_S START TWAIT	S_FBN_SETUP(H_AGC)		(3)
4		+mtca_n25			(4)
5		L0!PDUs	Ms(SUA_S(1,CREF,B_CHN))		(5)
6		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
7		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(7)
8		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
9		+MTCA_CS(12,1)			check N12
10		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(8)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
		mtca_n25			
14		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_R(CHIb_ANY_R,CHIp_ANY_R, H_AGC))	(P)	
15		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIp_R, H_AGC))	(P)	
16		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIb_R, H_AGC))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the slave component to send a audiographic conference fallback not allowed SETUP message.
(4) Subtree to reach state N25
(5) A SETUP ACKNOWLEDGE messge is sent. The IUT enters N25.
(6) This coordination message indicates to the slave component to send a DISCONNECT message.
(7) A DISCONNECT message containing a PI=#8 has been received −> PASS
(8) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC22_03

Group : NT7VAC/AGC/DEST/FBN/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback not allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBN_N9 (H_AGC)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
6		+MTCA_CS(12,1)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(5)
8		+MTCA_PO_N00(1)			postam ble N0
9		?TIMEOUT TWAIT		(I)	no respon se
10		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback not allowed audiographic conference SETUP message is received.
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 has been received −> PASS
(5) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC23_01

Group : NT7VAC/AGC/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, in Active call state N10 for CR1 and in the Null call state N0 for CR2, in order to establish CR2 in an audiographic conference call requiring two connections,
is capable of sending a SETUP message containing a single BC=UDI and a single HLC=audiographic_sc and enters the Call present call state N6.

Configuration : CONFIG1

Default :

Comments : 8.5.2.2, 8.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1 : PTC1_2B_IN)			(1)
2		ACTIVATE(MTCA_DEF(1))			(2)
3		+MTCA_PR_IC_N10I (H_AGC)			(3)
4		CPA1!CP_M_SC_S START TWAIT	S_SC_SETUP(H_AGC)		(4)
5		+rcv_setup_sc			
6		ACTIVATE(MTCA_DEF_2B(1))			(5)
7		+MTCA_PO_2B_N00(1)			postamble N0
		rcv_setup_sc			
8		[PC_POINT_TO_POINT]			(6)
9		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_SC_R(CHIb_R, CHIp_R, H_AGC))	(P)	(7)
10		+MTCA_CS_2B(10,6,1)			check N6
11		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
14		[NOT PC_POINT_TO_POINT]			(8)
15		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_SC_CH_R(CHIb_R, H_AGC))	(P)	(7)
16		+MTCA_CS_2B(10,6,1)			check N6
17		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
18		?TIMEOUT TWAIT		(I)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) Test step PTC1 for Incoming call
(2) Activation of the default tree for one call.
(3) Preamble to the Active call state N10 for the first call.
(4) This coordination message indicates to PTC1 to send a fallback not allowed SETUP message.
(5) Activation of the default tree for a 2B call
(6) Check for point to point configuration
(7) a valid fallback not allowed audiographic conference SETUP message is received −> PASS
(8) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : ATC23_02

Group : NT7VAC/AGC/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, in Active call state N10, with a call of the Audiographic conference teleservice in progress in a 1B−channel mode, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBN_N9 (H_AGC)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	
5		CPA1!CP_M START TWAIT	S_DISCONNECT		(4)
6		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(5)
7		+MTCA_CHECK_IN_BAND_TA(1)			(6)
8		+MTCA_CS(12,1)			check N12
9		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(7)
10		+MTCA_PO_N00(1)			postamble N0
11		?TIMEOUT TWAIT		(I)	no response
12		+MTCA_PO_N00(1)			postamble N0
13		?TIMEOUT TAC		(F)	no response
14		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback not allowed audiographic_ic SETUP message is received.
(3) The audiographic_ic telephony call is accepted
(4) This coordination message indicates to the slave component to send a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 is received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : ATC23_03

Group : NT7VAC/AGC/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, with a call of the audiographic conference teleservice in progress in a 2B−channel mode,
is capable of sending a DISCONNECT message, on CR1, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default :

Comments : 5.5.2, 5.6.2, 8.5.3, 8.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1 : PTC1_2B_IN)			(1)
2		ACTIVATE(MTCA_DEF(1))			(2)
3		+MTCA_PR_IC_N10I (H_AGC)			(3)
4		CPA1!CP_M_SC_S START TWAIT	S_SC_SETUP(H_AGC)		(4)
5		+rcv_setup_sc			
6		ACTIVATE(MTCA_DEF_2B(1))			(5)
7		+send_cn_sc			
8		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
9		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(7)
10		+MTCA_CHECK_IN_BAND_T A(1)			(8)
11		+MTCA_CS_2B(12,10,1)			check N12
12		+MTCA_PO_2B_N00(1)			postam ble N0
13		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(9)
14		+MTCA_PO_2B_N00(1)			postam ble N0
15		?TIMEOUT TWAIT		(I)	no respon se
16		+MTCA_PO_2B_N00(1)			postam ble N0
		rcv_setup_sc			
17		[PC_POINT_TO_POINT]			(10)
18		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_SC_R(CHIb_R, CHIp_R, H_AGC))	(P)	(11)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		L0?SETUPr [NOT PC_BASIC] (CREF2 := SETUPr.mun.cr.cr_r, B_CHN2 := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_SC_CH_R(CHIp_R, H_AGC))	(P)	(11)
20		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN2 := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_SC_CH_R(CHIb_R, H_AGC))	(P)	(11)
21		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
22		+MTCA_PO_2B_N00(1)			postamble N0
23		?TIMEOUT TWAIT		(I)	no response
24		+MTCA_PO_N00(1)			postamble N0
25		[NOT PC_POINT_TO_POINT]			(12)
26		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_SC_CH_R(CHIb_R, H_AGC))	(P)	(11)
27		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
28		+MTCA_PO_2B_N00(1)			postamble N0
29		?TIMEOUT TWAIT		(I)	no response
30		+MTCA_PO_N00(1)			postamble N0
		send_cn_sc			
31		L1!PDUs	Ms(CP_S(1,CREF2,B_CHN2))		
32		L0!PDUs START TAC	Ms(CN_S(1,CREF2))		(13)
33		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF2))	(P)	
34		?TIMEOUT TAC		(F)	no response
35		+MTCA_PO_2B_N00(1)			postamble N0

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Test Case Dynamic Behaviour	
Detailed Comments :	(1) Test step PTC1 for Incoming two b−channel call (2) Activation of the default tree (3) Preamble to reach call state N10 on the initial channel in a audiographic conference call (4) This coordination message indicates to PTC1 to send a SETUP message for the additional channel. (5) Activation of the default tree for a 2B call (6) This coordination message indicates to the slave component to send a DISCONNECT message. (7) A DISCONNECT message containing a PI=#8 is received −> PASS (8) Test step where an operator will check in−band tone−announcement (9) A DISCONNECT message not containing a PI=#8 is received −> FAIL (10) Check for point to point configuration (11) A audiographic conference SETUP message for a second call is expected (12) Check for point to multipoint configuration (13) The audiographic conference SECOND call is accepted

Test Case Dynamic Behaviour

Test Case Name : CTC11_01

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=videoconference_ic, and not containing a LLC, and on completion of a successful subscription check for the prime service,
is capable of sending a CONNECT message and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 9.6, 9.5.1.1 b) , EN 300 403−1 5.1.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_VCF)))			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_VCF, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
8		CPA1!CP_M START TWAIT	S_CONNECT		
9		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))		
10		+MTCA_CS(10,0)			
11		?TIMEOUT TWAIT		(F)	
12		+MTCA_PO_N00(0)			
13		?TIMEOUT TAC		(F)	no response
14		+MTCA_PO_N00(0)			postamble N0
15		?TIMEOUT TWAIT		(I)	no response
16		+END_PTC1			(6)

Detailed Comments : (1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid SETUP message with the complete called party information is sent.
(5) A CALL PROCEEDING message is received.
(6) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : CTC11_02

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message, and on failure of the subscription check for the prime service,
releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 9.5.1.1 b), 9.6, EN 300 403−1 5.1.5.1, 5.3.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			Preamble N00
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_S(CREF, H_VCF, CDPN_PTC1))		(1)
3		L0?PDUr CANCEL TAC	Mr(RC_CAU_R(1,CREF,57))	(P)	(2)
4		+MTCA_CS(0,0)			check N0
5		?TIMEOUT TAC			
6		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) A valid fallback allowed videoconference SETUP message with the sending complete information element is sent. No PTC is activated.
(2) A RELEASE COMPLETE message is received with the cause value #57.

Test Case Dynamic Behaviour

Test Case Name : CTC11_03

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=videoconference_ic and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 9.5.1.1 c), 9.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_VCF)))			(1)
2		+MTCA_PR_FBA_N3 (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_ic(H_VCF)))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to videoconference_ic is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to videoconference_ic is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_04

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=videoconference_ic and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 59.5.1.1 c), 9.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_ic(H_VCF)))			(1)
2		+MTCA_PR_FBA_N4 (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_ic(H_VCF)))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to videoconference_ic is received −>PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to videoconference_ic is received −>FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_05

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.2.1 c), 9.5.1.1 c), 9.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N3 (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_06

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 6.5.2.1 c), 9.5.1.1 c), 9.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_UDITA, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N4 (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF,BCAP_UDITA, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to UDI/TA and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to UDI/TA or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_07

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 9.5.1.1 c), 9.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT(BCAP_SPEECH, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N3 (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to speech and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to speech or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_08

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Call Delivered call state N4, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and a HLC=telephony and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 9.5.1.1 c), 9.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_BCAP_HLC_OUT (BCAP_SPEECH, HLC_TELEPHONY))			(1)
2		+MTCA_PR_FBA_N4 (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_CONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(CN_BCAP_HLC_R(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))	(P)	(4)
5		+MTCA_CS(10,0)			check N10
6		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TWAIT		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Call Delivered call state N4 in which fallback is allowed.
(3) This coordination message indicates to the slave component to send a CONNECT message.
(4) A CONNECT message containing a bearer capability set to speech and a high layer compatibility set to telephony is received −> PASS
(5) A CONNECT message not containing a bearer capability set to speech or a high layer compatibility set to telephony is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_09

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message,
is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5, and a BC=speech, and a HLC=telephony or no HLC and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 9.5.1.1 d), 9.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_VCF, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_SPEECH_OPT_HLC_R(1,CREF, H_VCF))	(P)	(5)
8		+MTCA_CS(3,0)			check N3
9		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(6)
10		CPA1!CP_M START TWAIT	S_ALERTING		(7)
11		L0?PDUr CANCEL TWAIT	Mr(AL_SPEECH_OPT_HLC_R(1,CREF, H_VCF))	(P)	(8)
12		+MTCA_CS(4,0)			check N4
13		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(9)
14		CPA1!CP_M START TWAIT	S_CONNECT		(10)
15		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(11)
16		+MTCA_PO_N00(0)			
17		L0?PDUr CANCEL TWAIT	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_VCF))	(P)	(12)
18		+MTCA_CS(4,0)			check N4
19		?TIMEOUT TWAIT		(I)	no response
20		+MTCA_PO_N00(0)			postamble N0

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
21		L0?PDUr CANCEL TWAIT	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_VCF))	(P)	(12)
22		+MTCA_CS(3,0)			check N3
23		?TIMEOUT TWAIT		(I)	no response
24		+MTCA_PO_N00(0)			postamble N0
25		L0?PDUr CANCEL TAC	Mr(PG_SPEECH_OPT_HLC_R(1,CREF, H_VCF))	(P)	(12)
26		+MTCA_PO_N00(0)			postamble N0
27		?TIMEOUT TAC			no response
28		+MTCA_PO_N00(0)			postamble N0
29		?TIMEOUT TWAIT		(I)	no response
30		+END_PTC1			(13)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid fallback allowed videoconference SETUP message with the sending complete information element is sent to the first slave remote user
(5) A CALL PROCEEDING message containing PI=#5 and a BC=speech and optionally HLC=telephony
(6) A CALL PROCEEDING message not containing PI=#5 is received
(7) This coordination message indicates to the slave component to send an ALERTING message.
(8) An ALERTING message containing PI=#5 and a BC=speech and optionally HLC=telephony
(9) An ALERTING message not containing PI=#5 is received
(10) This coordination message indicates to the slave component to send a CONNECT message.
(11) No control message containing a PI=#5 anda BC=speech and optionally HLC=telephony have been received before the CONNECT message
(12) A PROGRESS message containing PI=#5 and a BC=speech and optionally HLC=telephony
(13) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : CTC11_10

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Overlap Sending call state N2, on receipt of a videoconference fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4.1, 5.1.4, 5.1.5.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_NoSCI_S(CREF, H_VCF))		(2)
3		L0?PDUr CANCEL TAC, START T_MIN(PC_T302MIN) , START T_MAX(PC_T302MAX)	Mr(SUA_R(1,CREF))	(P)	(3)
4		?TIMEOUT T_MIN			(4)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI8_R))	(P)	(5)
6		+MTCA_CHECK_IN_BAND_TA(0)			(6)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(7)
9		+MTCA_PO_N00(0)			postamble N0
10		?TIMEOUT T_MAX		(F)	(8)
11		+MTCA_PO_N00(0)			postamble N0
12		?TIMEOUT TAC		(I)	no response
13		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback allowed videoconference SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received. The IUT has entered N02.
(4) Minimum duration allowed for T302 has passed by. Wait for a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 has been received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 has been received −> FAIL
(8) Maximum duration allowed for T302 has passed by. Test failed..

Test Case Dynamic Behaviour

Test Case Name : CTC11_11

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.2.5.4, 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBA_N3 (H_VCF)			(2)
3		START T_MIN(PC_T310MIN) , START T_MAX(PC_T310MAX)			
4		?TIMEOUT T_MIN			(3)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
6		+MTCA_CHECK_IN_BAND_TA(0)			(5)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	no respon se
11		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) Minimum duration allowed for T310 has passed by. Wait for a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_12

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Overlap sending call state N2.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.4, 9.6, EN 300 403−1 5.1.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBA_NoSCI_S(CREF, H_VCF))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI8_R))	(P)	(3)
4		+MTCA_CHECK_IN_BAND_TA(0)			(4)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TAC		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback allowed videoconference SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received with PI=#8 −> PASS
(4) Test step where an operator will check in−band tone−announcement
(5) A SETUP ACKNOWLEDGE without PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_13

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, of a videoconference fallback allowed SETUP message with a sending complete indication,
is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in−band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.4, 9.6, EN 300 403−1 5.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			(2)
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(3)
5		CPA1!CP_M	R_SETUP		(4)
6		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, H_VCF, CDPN_PTC1))		(5)
7		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF, PI8_R))	(P)	(6)
8		+MTCA_CHECK_IN_BAND_TA(0)			
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(7)
11		CPA1!CP_M START TWAIT	S_ALERTING		(8)
12		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI8_R))	(P)	(9)
13		+MTCA_CHECK_IN_BAND_TA(0)			
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(10)
16		CPA1!CP_M START TWAIT	S_CONNECT		(11)
17		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(12)
18		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
19		+MTCA_CHECK_IN_BAND_TA(0)			
20		+MTCA_CS(4,0)			check N4
21		?TIMEOUT TWAIT		(I)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		+MTCA_PO_N00(0)			postamble N0
23		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
24		+MTCA_CHECK_IN_BAND_TA(0)			
25		+MTCA_CS(3,0)			check N3
26		?TIMEOUT TWAIT		(I)	no response
27		+MTCA_PO_N00(0)			postamble N0
28		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
29		+MTCA_CHECK_IN_BAND_TA(0)			
30		+MTCA_PO_N00(0)			postamble N0
31		?TIMEOUT TAC		(I)	no response
32		+MTCA_PO_N00(0)			postamble N0
33		?TIMEOUT TWAIT		(I)	no response
34		+END_PTC1			(14)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(4) This coordination message indicates to the slave component to expect a SETUP message.
(5) A valid fallback allowed videoconference SETUP message with the sending complete information element is sent to the slave remote user
(6) A CALL PROCEEDING message containing PI=#8 is received
(7) A CALL PROCEEDING message not containing PI=#8 is received
(8) This coordination message indicates to the slave component to send an ALERTING message.
(9) An ALERTING message containing PI=#8 is received
(10) An ALERTING message not containing PI=#8 is received
(11) This coordination message indicates to the slave component to send a CONNECT message.
(12) A CONNECT message is received without receiving PI=#8 before −> FAIL

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Test Case Dynamic Behaviour
Detailed Comments : … (13) A PROGRESS message containing PI=#8 is received (14) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : CTC11_14

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end−to−end ISDN, further call progress information may be available in−band" and enters the relevant basic call state.

Configuration : CONFIGT

Default : MTCA_DEF(0)

Comments : 9.7, EN 300 403−1 5.1.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTCT : PTCT_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		L0!PDUs (PTC_ACTIVATED:=FALSE, PTCT_ACTIVATED:=TRUE) START TAC	Ms(SU_FBA_PSTN_NoSCI_S(CREF, H_VCF))		(2)
4		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI1_R))	(P)	(3)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))		
7		L0!PDUs START TWAIT	Ms(IN_PSTN_S(0,CREF))		(4)
8		L0?PDUr CANCEL TWAIT	Mr(CP_PI_R(1,CREF,PI1_R))	(P)	(5)
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
11		+MTCA_CS(2,0)			check N2
12		L0?PDUr	Mr(CP_R(1,CREF))		
13		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI1_R))	(P)	(7)
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
16		+MTCA_CS(3,0)			check N3
17		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		
18		CPAT!CP_M START TWAIT	S_CONNECT		(8)
19		L0?PDUr CANCEL TWAIT	Mr(CN_PI_R(1,CREF,PI1_R))	(P)	(9)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		+MTCA_CS(10,0)			check N10
21		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(6)
22		+MTCA_CS(4,0)			check N4
23		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(10)
24		?TIMEOUT TWAIT		(I)	no response
25		+MTCA_PO_N00(0)			postamble N0
26		?TIMEOUT TWAIT		(I)	no response
27		+MTCA_PO_N00(0)			postamble N0
28		?TIMEOUT TWAIT		(I)	no response
29		+MTCA_PO_N00(0)			postamble N0
30		?TIMEOUT TAC		(I)	no response
31		+MTCA_PO_N00(0)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) A valid fallback allowed videoconference SETUP message without a sending complete information element is sent to a phone
(3) A SETUP ACKNOWLEDGE message containing PI=#1 is received −> PASS
(4) An IFORMATION message with sufficient called number information and with the sending complete information element is sent
(5) A CALL PROCEEDING message containing PI=#1 is received −> PASS
(6) A PROGRESS message containing PI=#1 is received −> PASS
(7) An ALERTING message containing PI=#1 is received −> PASS
(8) This coordination message indicates to the slave component to act as lift the hand−set
(9) A CONNECT message is received with PI=#1 before −> PASS
(10) No control message containing PI=#1 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC11_15

Group : NT7VAC/VCF/ORIG/FBA/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end−to−end ISDN, further call progress information may be available in−band" and enters the relevant basic call state.

Configuration : CONFIGT

Default : MTCA_DEF(0)

Comments : 9.7, EN 300 403−1 5.1.6

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTCT : PTCT_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		L0!PDUs (PTC_ACTIVATED:=FALSE, PTCT_ACTIVATED:=TRUE) START TAC	Ms(SU_FBA_S(CREF, H_VCF, CDPN_PSTN))		(2)
4		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF,PI1_R))	(P)	(3)
5		+MTCA_CS(3,0)			check N3
6		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
7		+MTCA_CS(2,0)			check N2
8		L0?PDUr CANCEL TAC, START TWAIT	Mr(CP_R(1,CREF))		
9		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI1_R))	(P)	(5)
10		+MTCA_CS(4,0)			check N4
11		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
12		+MTCA_CS(3,0)			check N3
13		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		
14		CPAT!CP_M START TWAIT	S_CONNECT		(6)
15		L0?PDUr CANCEL TWAIT	Mr(CN_PI_R(1,CREF,PI1_R))	(P)	(7)
16		+MTCA_CS(10,0)			check N10
17		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF,PI1_R))	(P)	(4)
18		+MTCA_CS(4,0)			check N4
19		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(8)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		?TIMEOUT TWAIT		(I)	no respon se
21		+MTCA_PO_N00(0)			postam ble N0
22		?TIMEOUT TWAIT		(I)	no respon se
23		+MTCA_PO_N00(0)			postam ble N0
24		?TIMEOUT TAC		(I)	no respon se
25		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) A valid fallback allowed videoconference SETUP message with a sending complete information element is sent to a phone
(3) A CALL PROCEEDING message containing PI=#1 is received −> PASS
(4) A PROGRESS message containing PI=#1 is received −> PASS
(5) An ALERTING message containing PI=#1 is received −> PASS
(6) This coordination message indicates to the slave component to act as lift the hand−set
(7) A CONNECT message is received with PI=#1 before −> PASS
(8) No control message containing PI=#1 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC12_01

Group : NT7VAC/VCF/ORIG/FBN/

Purpose : Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC=UDI/TA and a single HLC=videoconference_ic, and not containing a LLC,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4.1, 5.1.4, 5.1.5.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_NoSCI_S(CREF, H_VCF))		(2)
3		L0?PDUr CANCEL TAC, START T_MIN(PC_T302MIN) , START T_MAX(PC_T302MAX)	Mr(SUA_R(1,CREF))	(P)	(3)
4		?TIMEOUT T_MIN			(4)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI8_R))	(P)	(5)
6		+MTCA_CHECK_IN_BAND_TA(0)			(6)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(7)
9		+MTCA_PO_N00(0)			postamble N0
10		?TIMEOUT T_MAX		(F)	(8)
11		+MTCA_PO_N00(0)			postamble N0
12		?TIMEOUT TAC		(I)	no response
13		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed videoconference SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received. The IUT has entered N02.
(4) Minimum duration allowed for T302 has passed by. Wait for a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 has been received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 has been received −> FAIL
(8) Maximum duration allowed for T302 has passed by. −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC12_02

Group : NT7VAC/VCF/ORIG/FBN/

Purpose : Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.2.5.4, 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_FBN_N3 (H_VCF)			(2)
3		START T_MIN(PC_T310MIN) , START T_MAX(PC_T310MAX)			
4		?TIMEOUT T_MIN			(3)
5		L0?PDUr CANCEL T_MAX	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
6		+MTCA_CHECK_IN_BAND_TA(0)			(5)
7		+MTCA_CS(12,0)			check N12
8		L0?PDUr CANCEL T_MAX	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_N00(0)			postam ble N0
10		?TIMEOUT T_MAX		(F)	(7)
11		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Outgoing Call Proceeding call state N3 in which fallback is allowed.
(3) Minimum duration allowed for T310 has passed by. Wait for a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL
(7) Maximum duration allowed for T302 has passed by. −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC12_03

Group : NT7VAC/VCF/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, on receipt a videoconference fallback not allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Overlap sending call state N2.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.4, 9.6, EN 300 403−1 5.1.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_NoSCI_S(CREF, H_VCF))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_PI_R(1,CREF, PI8_R))	(P)	(3)
4		+MTCA_CHECK_IN_BAND_TA(0)			(4)
5		+MTCA_CS(2,0)			check N2
6		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))	(F)	(5)
7		+MTCA_PO_N00(0)			postamble N0
8		?TIMEOUT TAC		(I)	no response
9		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed videoconference SETUP message using the overlap sending mode is transmitted.
(3) A SETUP ACKNOWLEDGE is received with PI=#8 −> PASS
(4) Test step where an operator will check in−band tone−announcement
(5) A SETUP ACKNOWLEDGE without PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC12_04

Group : NT7VAC/VCF/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, having a videoconference fallback not allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in−band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the relevant basic call state.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.4, 9.6, EN 300 403−1 5.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_N00			preamble N00
3		START TWAIT			
4		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
5		CPA1!CP_M	R_SETUP		(3)
6		L0!PDUs START TAC	Ms(SU_FBN_S(CREF, H_VCF, CDPN_PTC1))		(4)
7		L0?PDUr CANCEL TAC	Mr(CP_PI_R(1,CREF, PI8_R))	(P)	(5)
8		+MTCA_CHECK_IN_BAND_TA(0)			
9		+MTCA_CS(3,0)			check N3
10		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(6)
11		CPA1!CP_M START TWAIT	S_ALERTING		(7)
12		L0?PDUr CANCEL TWAIT	Mr(AL_PI_R(1,CREF, PI8_R))	(P)	(9)
13		+MTCA_CHECK_IN_BAND_TA(0)			
14		+MTCA_CS(4,0)			check N4
15		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(10)
16		CPA1!CP_M START TWAIT	S_CONNECT		(11)
17		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(F)	(12)
18		+MTCA_PO_N00(0)			postamble N0
19		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
20		+MTCA_CHECK_IN_BAND_TA(0)			
21		+MTCA_CS(4,0)			check N4

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
22		?TIMEOUT TWAIT		(I)	no respon se
23		+MTCA_PO_N00(0)			postam ble N0
24		L0?PDUr CANCEL TWAIT	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
25		+MTCA_CHECK_IN_BAND_ TA(0)			
26		+MTCA_CS(3,0)			check N3
27		?TIMEOUT TWAIT		(I)	no respon se
28		+MTCA_PO_N00(0)			postam ble N0
29		L0?PDUr CANCEL TAC	Mr(PG_PI_R(1,CREF, PI8_R))	(P)	(13)
30		+MTCA_CHECK_IN_BAND_TA(0)			
31		+MTCA_PO_N00(0)			postam ble N0
32		?TIMEOUT TAC		(I)	no respon se
33		+MTCA_PO_N00(0)			postam ble N0
34		?TIMEOUT TWAIT		(I)	no respon se
35		+END_PTC1			(14)

Detailed Comments :
(1) The slave component PTC1 is started.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to PTC1 to expect a SETUP message.
(4) A valid fallback not allowed videoconference SETUP message with the sending complete information element is sent to the slave component
(5) Subtree to receive PI=#8 in one of following call control messages
(6) A CALL PROCEEDING message containing PI=#8 is received
(7) A CALL PROCEEDING message not containing PI=#8 is received
(8) This coordination message indicates to the slave component to send an ALERTING message.
(9) An ALERTING message containing PI=#8 is received
(10) An ALERTING message not containing PI=#8 is received
(11) This coordination message indicates to the slave component to send a CONNECT message.
(12) A CONNECT message is received without receiving PI=#8 before −> FAIL
(13) A PROGRESS message containing PI=#8 is received
(14) Test step to terminate all actions at PTC1.

Test Case Dynamic Behaviour

Test Case Name : CTC12_05

Group : NT7VAC/VCF/ORIG/FBN/

Purpose : Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 9.7, EN 300 403−1 5.1.1, 5.1.5.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_S(CREF, H_VCF, CDPN_PSTN))		(2)
3		L0?PDUr CANCEL TAC	Mr(RC_CAU_R(1,CREF ,65))	(P)	(3)
4		+MTCA_CS(0,0)			check N0
5		?TIMEOUT TAC		(I)	no respon se
6		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed videoconference SETUP message with a sending complete information element is sent to a PSTN destination
(3) A RELEASE COMPLETE message is received with the cause value #65 −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC12_06

Group : NT7VAC/VCF/ORIG/FBN/

Purpose : Verify that the IUT, in Overlap Sending call state N2, having received a videoconference fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.

Configuration : CONFIG0

Default : MTCA_DEF(0)

Comments : 9.7, EN 300 403−1 5.1.5.2, 5.3.3

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		L0!PDUs (PTC_ACTIVATED:=FALSE) START TAC	Ms(SU_FBN_PSTN_NoSCI_S(CREF, H_VCF))		(2)
3		L0?PDUr CANCEL TAC	Mr(SUA_R(1,CREF))		
4		L0!PDUs START TWAIT	Ms(IN_PSTN_S(0,CREF))		(3)
5		L0?PDUr CANCEL TWAIT	Mr(DI_CAU_R(1,CREF, 65))	(P)	(4)
6		+MTCA_CS(12,0)			check N12
7		?TIMEOUT TWAIT		(I)	no response
8		+MTCA_PO_N00(0)			postamble N0
9		?TIMEOUT TAC		(I)	no response
10		+MTCA_PO_N00(0)			postamble N0

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) A valid fallback not allowed videoconference SETUP message without a sending complete information element is sent to a PSTN destination
(3) An IFORMATION message with sufficient called number information and with the sending complete information elemet is sent
(4) A DISCONNECT message is received with the cause value #65 −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC13_01

Group : NT7VAC/VCF/ORIG/CMN/

Purpose : Verify that the IUT, at the originating interface, in Active call state N10, with a call of the videoconference teleservice in progress in a 1B−channel mode, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_OUT)			(1)
2		+MTCA_PR_IC_N10O (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(0)			(5)
6		+MTCA_CS(12,0)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(1,CREF))	(F)	(6)
8		+MTCA_PO_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Active call state N10 on the initial channel
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC13_02

Group : NT7VAC/VCF/ORIG/CMN/

Purpose : Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, with a call of the videoconference teleservice in progress in a 2B−channel mode,
is capable of sending a DISCONNECT message, on CR1, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF_2B(0)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_2B_OUT)			(1)
2		+ MTCA_PR_2B_N10O (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(1,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(0)			(5)
6		+MTCA_CS_2B(12,10,0)			check N12
7		+MTCA_PO_2B_N00(0)			postam ble N0
8		L0?PDUr CANCEL TWAIT	Mr(DI_R(1,CREF))	(F)	(6)
9		+MTCA_PO_2B_N00(0)			postam ble N0
10		?TIMEOUT TWAIT		(I)	
11		+MTCA_PO_2B_N00(0)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Active call state N10 on the initial and the second channel
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 is received −> PASS
(5) Test step where an operator will check in−band tone−announcement
(6) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC21_01

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=videoconference_ic, and not containing a LLC and enters the Call present call state N6.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 a), 9.6.1 a)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP(H_VCF)		(3)
4		[PC_POINT_TO_POINT]			(4)
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_R, CHIp_R,H_VCF))	(P)	(5)
6		+MTCA_CS(6,1)			check −state
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(6)
11		[NOT PC_POINT_TO_POINT]			(7)
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_FBA_R(CHIb_R, CHIp_R,H_VCF))	(P)	(5)
13		+MTCA_CS(6,1)			check −state
14		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
15		+MTCA_PO_N00(1)			postamble N0
16		?TIMEOUT TWAIT		(I)	no response
17		+END_PTC1			(6)

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to PTC1 to send a SETUP message.

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Test Case Dynamic Behaviour
Detailed Comments : ... (4) Check for point to point configuration (5) a valid fallback allowed videoconference_ic SETUP message is received −> PASS (6) Test step to terminate all actions at PTC1. (7) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : CTC21_02

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither a BC nor a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_03

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_04

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with no BCAP is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_05

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_06

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_07

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_SPEECH))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BCAP=speech is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_08

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videoconference_ic ,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_VCF)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=videoconference_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_09

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videoconference_ic ,
assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_VCF)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=videoconference_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_10

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videoconference_ic , assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_ic(H_VCF)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=videoconference_ic is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_11

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=telephony,
assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_12

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_UDITA, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_13

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech and a HLC=telephony,
assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_14

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech and a HLC=telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c), 9.6.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF,BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_15

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in Overlap Receiving call state N25, having sent a videoconference fallback allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP (H_VCF)		(3)
4		+mtca_n25			(4)
5		L0!PDUs	Ms(SUA_S(1,CREF,B_CHN))		(5)
6		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
7		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(7)
8		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
9		+MTCA_CS(12,1)			check N12
10		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(8)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
		mtca_n25			
14		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_ANY_R,CHIp_ANY_R, H_VCF))	(P)	
15		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIp_R, H_VCF))	(P)	
16		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIb_R, H_VCF))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the slave component to send a 7 kHz fallback allowed SETUP message.
(4) Subtree to reach state N25
(5) A SETUP ACKNOWLEDGE messge is sent. The IUT enters N25.
(6) This coordination message indicates to the slave component to send a DISCONNECT message.
(7) A DISCONNECT message containing a PI=#8 has been received −> PASS
(8) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC21_16

Group : NT7VAC/VCF/DEST/FBA/ST_T/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
6		+MTCA_CS(12,1)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(5)
8		+MTCA_PO_N00(1)			postam ble N0
9		?TIMEOUT TWAIT		(I)	no respon se
10		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 has been received −> PASS
(5) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC21_17

Group : NT7VAC/VCF/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC=videoconference_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF, HLC_ic(H_VCF)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_18

Group : NT7VAC/VCF/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC=videoconference_nex, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF, HLC_nex(H_VCF)))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=videoconference_nex is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_19

Group : NT7VAC/VCF/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC,
assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_20

Group : NT7VAC/VCF/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC,
assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC= is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_21

Group : NT7VAC/VCF/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c),

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_S(1,CREF,BCAP_UDITA))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=UDI/TA and no HLC is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_22

Group : NT7VAC/VCF/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_23

Group : NT7VAC/VCF/DEST/FBA/ST/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no response
7		+MTCA_PO_N00(1)			postamble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_24

Group : NT7VAC/VCF/DEST/FBA/ST/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 c)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_HLC_S(1,CREF,HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with no BC and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC21_25

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CP_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_26

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 but not containing either a BC or a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(AL_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) An ALERTING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_27

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing either a BC or a HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(PG_PI_S(1,CREF))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
((3) A PROGRESS message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_28

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs	Ms(AL_PI_S(1,CREF,B_CHN))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) An ALERTING message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_29

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d),

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(PG_PI_S(1,CREF))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A PROGRESS message with PI=#5, no BC and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_30

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CP_BCAP_PI_S(1, CREF,B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, no BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_31

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(AL_BCAP_PI_S(1, CREF,B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_32

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and no HLC,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(PG_BCAP_PI_S(1, CREF, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_33

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(AL_BCAP_PI_S(1, CREF, B_CHN, BCAP_SPEECH))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_34

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(PG_BCAP_PI_S(1, CREF, BCAP_SPEECH))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and no HLC is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_35

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CP_SPEECH_HLC _PI_S(1,CREF,B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CALL PROCEEDING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_36

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and HLC=telephony,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N6 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(AL_SPEECH_HLC_PI_S(1,CREF,B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_37

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and HLC=telephony,
assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N7 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(PG_SPEECH_HLC_PI_S(1,CREF, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N7 during which a valid fallback allowed videoconference SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_38

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(AL_SPEECH_HLC_PI_S(1,CREF, B_CHN, HLC_TELEPHONY))		(3)
4		+MTCA_CS(7,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) An ALERTING message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_39

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(PG_SPEECH_HLC_PI_S(1,CREF, HLC_TELEPHONY))		(3)
4		+MTCA_CS(9,1)			check −state

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N6 during which a valid fallback allowed videoconference SETUP message is received.
(3) A PROGRESS message with PI=#5, BC=speech and HLC=telephony is sent

Test Case Dynamic Behaviour

Test Case Name : CTC21_40

Group : NT7VAC/VCF/DEST/FBA/PT/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.6.1 d)

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBA_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF, BCAP_SPEECH, HLC_TELEPHONY))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(4)
5		+MTCA_CS(10,1)			check −state
6		?TIMEOUT TAC		(F)	no respon se
7		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback allowed videoconference SETUP message is received.
(3) A CONNECT message with BC=speech and a HLC=telephony is sent
(4) A CONNECT ACKNOWLEGE message is received −> PASS

Test Case Dynamic Behaviour

Test Case Name : CTC22_01

Group : NT7VAC/VCF/DEST/FBN/

Purpose : Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC=UDI/TA and a single HLC=videoconference_ic, and not containing a LLC and enters the Call present call state N6.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 9.5.2.1 i), 9.6.1 first paragraph

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBN_S START TWAIT	S_FBN_SETUP (H_VCF)		(3)
4		[PC_POINT_TO_POINT]			(4)
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_R(CHIb_R, CHIp_R, H_VCF))	(P)	(5)
6		+MTCA_CS(6,1)			check −state
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			
11		[NOT PC_POINT_TO_POINT]			(6)
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_FBN_R(CHIb_R, CHIp_R, H_VCF))	(P)	(5)
13		+MTCA_CS(6,1)			check −state
14		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
15		+MTCA_PO_N00(1)			postamble N0
16		?TIMEOUT TWAIT		(I)	no response
17		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to PTC1 to send a SETUP message.
(4) Check for point to point configuration

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Test Case Dynamic Behaviour
Detailed Comments : … (5) a valid fallback not allowed videoconference SETUP message is received −> PASS (6) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : CTC22_02

Group : NT7VAC/VCF/DEST/FBN/

Purpose : Verify that the IUT, in Overlap Receiving call state N25, having sent a videoconference fallback not allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_N00			(2)
3		CPA1!CP_M_FBN_S START TWAIT	S_FBN_SETUP(H_VCF)		(3)
4		+mtca_n25			(4)
5		L0!PDUs	Ms(SUA_S(1,CREF,B_CHN))		(5)
6		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
7		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI8_R))	(P)	(7)
8		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
9		+MTCA_CS(12,1)			check N12
10		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(8)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
		mtca_n25			
14		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_R(CHIb_ANY_R,CHIp_ANY_R, H_VCF))	(P)	
15		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIp_R, H_VCF))	(P)	
16		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIb_R, H_VCF))	(P)	

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to the Null call state N00.
(3) This coordination message indicates to the slave component to send a videoconference fallback not allowed SETUP message.
(4) Subtree to reach state N25
(5) A SETUP ACKNOWLEDGE messge is sent. The IUT enters N25.
(6) This coordination message indicates to the slave component to send a DISCONNECT message.
(7) A DISCONNECT message containing a PI=#8 has been received −> PASS
(8) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC22_03

Group : NT7VAC/VCF/DEST/FBN/

Purpose : Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback not allowed SETUP message, delivered on a point to point data link,
is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(1)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4.1

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBN_N9 (H_VCF)			(2)
3		CPA1!CP_M START TWAIT	S_DISCONNECT		(3)
4		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(4)
5		+MTCA_CHECK_IN_BAND_TA(1)			Check −Ta
6		+MTCA_CS(12,1)			check N12
7		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(5)
8		+MTCA_PO_N00(1)			postam ble N0
9		?TIMEOUT TWAIT		(I)	no respon se
10		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments : (1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback not allowed videoconference SETUP message is received.
(3) This coordination message indicates to the slave component to send a DISCONNECT message.
(4) A DISCONNECT message containing a PI=#8 has been received −> PASS
(5) A DISCONNECT message not containing a PI=#8 has been received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC23_01

Group : NT7VAC/VCF/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, in Active call state N10 for CR1 and in the Null call state N0 for CR2, in order to establish CR2 in a videoconference call requiring two connections,
is capable of sending a SETUP message containing a single BC=UDI and a single HLC=videotelephony_sc and enters the Call present call state N6.

Configuration : CONFIG1

Default :

Comments : 9.5.2.2, 9.6.2

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1 : PTC1_2B_IN)			(1)
2		ACTIVATE(MTCA_DEF(1))			(2)
3		+MTCA_PR_IC_N10I (H_VCF)			(3)
4		CPA1!CP_M_SC_S START TWAIT	S_SC_SETUP(H_VCF)		(4)
5		+rcv_setup_sc			
6		ACTIVATE(MTCA_DEF_2B(1))			(5)
7		+MTCA_PO_2B_N00(1)			postamble N0
		rcv_setup_sc			
8		[PC_POINT_TO_POINT]			(6)
9		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_SC_R(CHIb_R, CHIp_R, H_VCF))	(P)	(7)
10		+MTCA_CS_2B(10,6,1)			check N6
11		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
12		?TIMEOUT TWAIT		(I)	no response
13		+MTCA_PO_N00(1)			postamble N0
14		[NOT PC_POINT_TO_POINT]			(8)
15		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_SC_CH_R(CHIb_R, H_VCF))	(P)	(7)
16		+MTCA_CS_2B(10,6,1)			check N6
17		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
18		?TIMEOUT TWAIT		(I)	no response

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) Test step PTC1 for Incoming call
(2) Activation of the default tree for one call.
(3) Preamble to the Active call state N10 for the first call.
(4) This coordination message indicates to PTC1 to send a fallback not allowed SETUP message.
(5) Activation of the default tree for a 2B call
(6) Check for point to point configuration
(7) a valid fallback not allowed videoconference SETUP message is received −> PASS
(8) Check for point to multipoint configuration

Test Case Dynamic Behaviour

Test Case Name : CTC23_02

Group : NT7VAC/VCF/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, in Active call state N10, with a call of the videoconference teleservice in progress in a 1B−channel mode, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in−band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default : MTCA_DEF(0)

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1: PTC1_IN)			(1)
2		+MTCA_PR_FBN_N9 (H_VCF)			(2)
3		L0!PDUs START TAC	Ms(CN_S(1,CREF))		(3)
4		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	
5		CPA1!CP_M START TWAIT	S_DISCONNECT		(4)
6		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(5)
7		+MTCA_CHECK_IN_BAND_TA(1)			(6)
8		+MTCA_CS(12,1)			check N12
9		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(7)
10		+MTCA_PO_N00(1)			postam ble N0
11		?TIMEOUT TWAIT		(I)	no respon se
12		+MTCA_PO_N00(1)			postam ble N0
13		?TIMEOUT TAC		(F)	no respon se
14		+MTCA_PO_N00(1)			postam ble N0

Detailed Comments :
(1) The slave component PTC1 is started.
(2) Preamble to Call Present call state N9 during which a valid fallback not allowed videoconference_ic SETUP message is received.
(3) The videoconference_ic telephony call is accepted
(4) This coordination message indicates to the slave component to send a DISCONNECT message.
(5) A DISCONNECT message containing a PI=#8 is received −> PASS
(6) Test step where an operator will check in−band tone−announcement
(7) A DISCONNECT message not containing a PI=#8 is received −> FAIL

Test Case Dynamic Behaviour

Test Case Name : CTC23_03

Group : NT7VAC/VCF/DEST/CMN/

Purpose : Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, with a call of the videoconference teleservice in progress in a 2B−channel mode,
is capable of sending a DISCONNECT message, on CR1, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to CCITT Recommendation G.711 [6] A−law and enters the Disconnect indication call state N12.

Configuration : CONFIG1

Default :

Comments : 5.5.2, 5.6.2, 9.5.3, 9.6, EN 300 403−1 5.3.4

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CREATE(PTC1 : PTC1_2B_IN)			(1)
2		ACTIVATE(MTCA_DEF(1))			(2)
3		+MTCA_PR_IC_N10I (H_VCF)			(3)
4		CPA1!CP_M_SC_S START TWAIT	S_SC_SETUP(H_VCF)		(4)
5		+rcv_setup_sc			
6		ACTIVATE(MTCA_DEF_2B(1))			(5)
7		+send_cn_sc			
8		CPA1!CP_M START TWAIT	S_DISCONNECT		(6)
9		L0?PDUr CANCEL TWAIT	Mr(DI_PI_R(0,CREF,PI 8_R))	(P)	(7)
10		+MTCA_CHECK_IN_BAND_T A(1)			(8)
11		+MTCA_CS_2B(12,10,1)			check N12
12		+MTCA_PO_2B_N00(1)			postam ble N0
13		L0?PDUr CANCEL TWAIT	Mr(DI_R(0,CREF))	(F)	(9)
14		+MTCA_PO_2B_N00(1)			postam ble N0
15		?TIMEOUT TWAIT		(I)	no respon se
16		+MTCA_PO_2B_N00(1)			postam ble N0
		rcv_setup_sc			
17		[PC_POINT_TO_POINT]			(10)
18		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_SC_R(CHIb_R, CHIp_R, H_VCF))	(P)	(11)

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Test Case Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		L0?SETUPr [NOT PC_BASIC] (CREF2 := SETUPr.mun.cr.cr_r, B_CHN2 := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_SC_CH_R(CHIp_R, H_VCF))	(P)	(11)
20		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN2 := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_SC_CH_R(CHIb_R, H_VCF))	(P)	(11)
21		L0?SETUPr (CREF2 := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(F)	
22		+MTCA_PO_2B_N00(1)			postamble N0
23		?TIMEOUT TWAIT		(I)	no response
24		+MTCA_PO_N00(1)			postamble N0
25		[NOT PC_POINT_TO_POINT]			(12)
26		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_SC_CH_R(CHIb_R, H_VCF))	(P)	(11)
27		L0?SETUP_BROADCASTr (CREF2 := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(F)	
28		+MTCA_PO_2B_N00(1)			postamble N0
29		?TIMEOUT TWAIT		(I)	no response
30		+MTCA_PO_N00(1)			postamble N0
		send_cn_sc			
31		L1!PDUs	Ms(CP_S(1,CREF2,B_CHN2))		
32		L0!PDUs START TAC	Ms(CN_S(1,CREF2))		(13)
33		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF2))	(P)	
34		?TIMEOUT TAC		(F)	no response
35		+MTCA_PO_2B_N00(1)			postamble N0

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Test Case Dynamic Behaviour	
Detailed Comments :	(1) Test step PTC1 for Incoming two b−channel call (2) Activation of the default tree (3) Preamble to reach call state N10 on the initial channel in a videoconference call (4) This coordination message indicates to PTC1 to send a SETUP message for the additional channel. (5) Activation of the default tree for a 2B call (6) This coordination message indicates to the slave component to send a DISCONNECT message. (7) A DISCONNECT message containing a PI=#8 is received −> PASS (8) Test step where an operator will check in−band tone−announcement (9) A DISCONNECT message not containing a PI=#8 is received −> FAIL (10) Check for point to point configuration (11) A videoconference SETUP message for a second call is expected (12) Check for point to multipoint configuration (13) The videoconference SECOND call is accepted

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_N00
Group : MTCA/
Objective : Preamble to the Null call state N00.
Default : MTCA_DEF(0)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+init_variables			(1)
2		L0!DL_REL_RQ START TAC			(2)
3		L0?DL_REL_CO CANCEL TAC		(P)	(3)
4		L0!DL_EST_RQ START TAC			(4)
5	L1	L0?DL_EST_CO CANCEL TAC		(P)	(5)
6		+wait_restart			(6)
7		L0?DL_REL_IN START TNOAC			(7)
8		L0?DL_EST_IN CANCEL TAC , CANCEL TNOAC		(P)	(8)
9		+wait_restart			(6)
10		?TIMEOUT TNOAC			
11		L0!DL_EST_RQ			(4)
12		GOTO L1			
13		L0?OTHERWISE		I	
14		L0?DL_EST_IN CANCEL TAC , START TNOAC			(8)
15		L0?DL_EST_CO CANCEL TNOAC		(P)	(9)
16		+wait_restart			
17		?TIMEOUT TNOAC		I	no response
18		L0?OTHERWISE		I	(10)
19		?TIMEOUT TAC		I	no response
20		L0?OTHERWISE		I	(10)
21		?TIMEOUT TAC		I	no response
22		L0?OTHERWISE		I	(10)
		init_variables			
23		[PC_BASIC]			
24		(CREF:='0000001'B, CREF2:='0000010'B, GLOB_CREF:='0000000'B, B_CHN:=INT_TO_BIT(PX_CH_NUM,2), B_CHN2:=INT_TO_BIT(PX_CH_NUM2,2))			Basic access
25		[NOT PC_BASIC]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
26		(CREF:='000000000000001'B, CREF2:='000000000000010'B, GLOB_CREF:='000000000000000'B, B_CHN:=INT_TO_BIT(PX_CH_NUM,7), B_CHN2:=INT_TO_BIT(PX_CH_NUM2,7))			Primary rate access
		wait_restart			
27		[PX_WAIT_RESTART]			
28		START T_RESTART			
29	LR	L0?RESTARTr CANCEL T_RESTART	RSr(RST_R(0,GLOB_CREF,6))		Single interface
30		L0!PDUs	Ms(RSA_S(1,GLOB_CREF,6))		
31		GOTO LR			
32		L0?RESTARTr CANCEL T_RESTART	RSr(RST_R(0,GLOB_CREF,7))		All interfaces
33		L0!PDUs	Ms(RSA_S(1,GLOB_CREF,7))		
34		GOTO LR			
35		L0?RESTARTr [NOT PC_BASIC] (B_CHN_RS:=RESTARTr.mun.chi_rs.chi_cn, CHI_LENGTH := RESTARTr.mun.chi.chi_l) CANCEL T_RESTART	RSr(RST_CHN_R(0,GLOB_CREF,0))		Indicated channels
36		L0!PDUs	Ms(RSA_CHN_S(1,GLOB_CREF,B_CHN,B_CHN_RS,CHI_LENGTH,0))		
37		GOTO LR			
38		L0?RESTARTr [PC_BASIC] (B_CHN:= RESTARTr.mun.chi.chi_e3_cs) CANCEL T_RESTART	RSr(RST_CHN_R(0,GLOB_CREF,0))		Indicated channels
39		L0!PDUs	Ms(RSA_CHN_S(1,GLOB_CREF,B_CHN,B_CHN_RS,CHI_LENGTH,0))		
40		GOTO LR			
41		?TIMEOUT T_RESTART			
42		START TWAIT			
43		CPA1? CP_M CANCEL TWAIT	N00_Ready		
44		?TIMEOUT TWAIT			
45		[NOT PX_WAIT_RESTART]			
Detailed Comments : The layer 2 of the IUT at the access related to MTC must have a TEI assigned value before the execution of this preamble. The procedure to assign the TEI					

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Test Step Dynamic Behaviour
Detailed Comments : … value to the IUT is a matter for the test laboratory. (1) The local subtree INIT_VARIABLES is used to assign initial values to test case variables taking into account the used interface configuration. (2) Termination of the multiple frame operation is requested (A DISC frame is sent). (3) Termination of the multiple frame operation is confirmed (A UA or a DM frame is received). (4) Establishment of the multiple frame operation is requested (A SABME frame is sent). (5) Establishment of the multiple frame operation is confirmed (A UA frame is received). (6) The local subtree WAIT_RESTART is used to deal with the receipt of RESTART messages that may be sent by the IUT after the re−establishment of the multiple frame operation. (7) An unsucessful establishment attempt is reported (A DM frame is received). (8) Establishment of the multiple frame operation is indicated (A SABME frame is received and a UA frame is sent). (9) Establishment of the multiple frame operation (requested in line 4) is confirmed (A UA frame is received). (10) Any other event occurred.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_7kHz_N3

Group : MTCA/

Objective : Preamble to the Outgoing Call Proceeding call state N3 during which a valid fallback allowed 7 kHz SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(0)

Comments : This test step is used with PTC1_BCAP_OUT or PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		START TWAIT			
3		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
4		CPA1!CP_M	R_SETUP		(3)
5		L0!PDUs START TAC	Ms(SU_FBA_7kHz_S(CREF, CDPN_PTC1))		(4)
6		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
7		?TIMEOUT TAC		(I)	no response
8		+MTCA_PO_N00(0)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(6)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to the slave component to expect a SETUP message.
(4) A valid fallback allowed 7 kHz SETUP message with the sending complete information element is sent to the slave remote user
(5) A CALL PROCEEDING message is received. The IUT has entered N3.
(6) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_7kHz_N4

Group : MTCA/

Objective : Preamble to the Call Delivered call state N4 during which a valid fallback allowed 7 kHz SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(0)

Comments : This test step is used with PTC1_BCAP_OUT or PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		START TWAIT			
3		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
4		CPA1!CP_M	R_SETUP		(3)
5		L0!PDUs START TAC	Ms(SU_FBA_7kHz_S(CREF, CDPN_PTC1))		(4)
6		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
7		CPA1!CP_M START TWAIT	S_ALERTING		(6)
8		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(7)
9		?TIMEOUT TWAIT		(I)	no response
10		+MTCA_PO_N00(0)			postamble N0
11		?TIMEOUT TAC		(I)	no response
12		+MTCA_PO_N00(0)			postamble N0
13		?TIMEOUT TWAIT		(I)	no response
14		+END_PTC1			(8)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to the slave component to expect a SETUP message.
(4) A valid fallback allowed 7 kHz SETUP message with the sending complete information element is sent to the slave remote user
(5) A CALL PROCEEDING message is received. The IUT has entered N3.
(6) This coordination message indicates to the slave component to send an ALERTING message.
(7) An ALERTING message is received. The IUT has entered N4.
(8) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_7kHz_N6

Group : MTCA/

Objective : Preamble to Call Present call state N6 during which a valid fallback allowed 7 kHz SETUP message is received.

Default : MTCA_DEF(1)

Comments : This test step is used with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M START TWAIT	S_FBA_7kHz_SETUP		(2)
3		[PC_POINT_TO_POINT]			
4		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_7kHz_R(CHIb_ANY_R,CHIp_ANY_R))	(P)	(3)
5		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_7kHz_R(CHIp_R))	(P)	(3)
6		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_7kHz_R(CHIb_R))	(P)	(3)
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(4)
11		[NOT PC_POINT_TO_POINT]			
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBA_CH_7kHz_R(CHIb_R))	(P)	(3)
13		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	
14		?TIMEOUT TWAIT		(I)	no response
15		+END_PTC1			(4)

Detailed Comments : (1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a teleservice 7 kHz fallback allowed SETUP message.
(3) A valid fallback allowed 7 kHz SETUP message is expected. The IUT has

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Test Step Dynamic Behaviour
Detailed Comments : … entered N06. (CREF an B_CHN variables are updated) (4) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_7kHz_N7

Group : MTCA/

Objective : Preamble to Call Received call state N7 during which a valid fallback allowed 7 kHz SETUP message is received.

Default : MTCA_DEF(1)

Comments : This test step is used with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M START TWAIT	S_FBA_7kHz_SETUP		(2)
3		[PC_POINT_TO_POINT]			
4		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_7kHz_R(CHIb_ANY_R,CHIp_ANY_R))	(P)	(3)
5		L0!PDUs	Ms(AL_CH_S(1,CREF, B_CHN))		(4)
6		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_7kHz_R(CHIp_R))	(P)	(3)
7		L0!PDUs	Ms(AL_CH_S(1,CREF, B_CHN))		(4)
8		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_7kHz_R(CHIb_R))	(P)	(3)
9		L0!PDUs	Ms(AL_CH_S(1,CREF, B_CHN))		(4)
10		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+END_PTC1			(5)
14		[NOT PC_POINT_TO_POINT]			
15		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBA_CH_7kHz_R(CHIb_R))	(P)	(3)
16		L0!PDUs	Ms(AL_CH_S(1,CREF, B_CHN))		(4)
17		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		?TIMEOUT TWAIT		(I)	no respon se
19		+END_PTC1			(5)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a teleservice 7 kHz fallback allowed SETUP message.
(3) A valid fallback allowed 7 kHz SETUP message is received. The IUT has entered N06. (CREF and B_CHN variables are updated.)
(4) An ALERTING message is sent. The IUT enters N07.
(5) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_7kHz_N9

Group : MTCA/

Objective : Preamble to incoming Call Proceeding call state N9 during which a valid fallback allowed 7 kHz SETUP message is received.

Default : MTCA_DEF(1)

Comments : This test step is used with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M START TWAIT	S_FBA_7kHz_SETUP		(2)
3		[PC_POINT_TO_POINT]			
4		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_7kHz_R(CHIb_ANY_R,CHIp_ANY_R))	(P)	(3)
5		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
6		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_7kHz_R(CHIp_R))	(P)	(3)
7		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
8		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_7kHz_R(CHIb_R))	(P)	(3)
9		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
10		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+END_PTC1			(5)
14		[NOT PC_POINT_TO_POINT]			
15		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBA_CH_7kHz_R(CHIb_R))	(P)	(3)
16		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
17		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			(5)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a teleservice 7 kHz fallback allowed SETUP message.
(3) A valid fallback allowed 7 kHz SETUP message is received. The IUT has entered N06. (CREF and B_CHN variables are updated.)
(4) A CALL POCEEDING message is sent. The IUT enters N09.
(5) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBN_7kHz_N3

Group : MTCA/

Objective : Preamble to the Outgoing Call Proceeding call state N3 during which a valid fallback not allowed 7 kHz SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(0)

Comments : This test step is used with PTC1_BCAP_OUT, PTC1_BCAP_HLC_OUT or PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		START TWAIT			
3		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
4		CPA1!CP_M	R_SETUP		(3)
5		L0!PDUs START TAC	Ms(SU_FBN_7kHz_S(CREF, CDPN_PTC1))		(4)
6		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
7		?TIMEOUT TAC		(I)	no response
8		+MTCA_PO_N00(0)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(6)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to the slave component to expect a SETUP message.
(4) A valid fallback not allowed 7 kHz SETUP message with the sending complete information element is sent to the slave remote user
(5) A CALL PROCEEDING message is received. The IUT has entered N3.
(6) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBN_7kHz_N9

Group : MTCA/

Objective : Preamble to incoming Call Proceeding call state N9 during which a valid fallback not allowed 7 kHz SETUP message is received.

Default : MTCA_DEF(1)

Comments : This test step is used with PTC1_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M START TWAIT	S_FBN_7kHz_SETUP		(2)
3		[PC_POINT_TO_POINT]			
4		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_7kHz_R(CHIb_ANY_R,CHIp_ANY_R))	(P)	(3)
5		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
6		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBN_CH_7kHz_R(CHIp_R))	(P)	(3)
7		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
8		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBN_CH_7kHz_R(CHIb_R))	(P)	(3)
9		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
10		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+END_PTC1			(5)
14		[NOT PC_POINT_TO_POINT]			
15		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBN_CH_7kHz_R(CHIb_R))	(P)	(3)
16		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
17		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			(5)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a 7 kHz fallback not allowed SETUP message.
(3) A valid fallback not allowed 7 kHz SETUP message is received. The IUT has entered N06. (CREF and B_CHN variables are updated.)
(4) A CALL POCEEDING message is sent. The IUT enters N09.
(5) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_N3 (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Outgoing Call Proceeding call state N3 during which a valid fallback allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(0)

Comments : This test step can be used with PTC1_BCAP_HLC_OUT or PTC1_BCAP_OUT or PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		START TWAIT			
3		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
4		CPA1!CP_M	R_SETUP		(2)
5		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, HLC_ID, CDPN_PTC1))		(3)
6		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(4)
7		?TIMEOUT TAC		(I)	no response
8		+MTCA_PO_N00(0)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(6)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to the slave component to expect a SETUP message.
(4) A valid fallback allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent to the slave remote user
(5) A CALL PROCEEDING message is received. The IUT has entered N3.
(6) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_N4 (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Call Delivered call state N4 during which a valid fallback allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(0)

Comments : This test step can be used with PTC1_BCAP_HLC_OUT or PTC1_BCAP_OUT or PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		START TWAIT			
3		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
4		CPA1!CP_M	R_SETUP		(3)
5		L0!PDUs START TAC	Ms(SU_FBA_S(CREF, HLC_ID, CDPN_PTC1))		(4)
6		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
7		CPA1!CP_M START TWAIT	S_ALERTING		(6)
8		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(7)
9		?TIMEOUT TWAIT		(I)	no response
10		+MTCA_PO_N00(0)			postamble N0
11		?TIMEOUT TAC		(I)	no response
12		+MTCA_PO_N00(0)			postamble N0
13		?TIMEOUT TWAIT		(I)	no response
14		+END_PTC1			(8)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to the slave component to expect a SETUP message.
(4) A valid fallback allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent to the slave remote user
(5) A CALL PROCEEDING message is received. The IUT has entered N3.
(6) This coordination message indicates to the slave component to send an ALERTING message.
(7) An ALERTING message is received. The IUT has entered N4.
(8) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_N6 (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Call Present call state N6 during which a valid fallback allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(1)

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP (HLC_ID)		(2)
3		[PC_POINT_TO_POINT]			
4		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_ANY_R,CHIp_ANY_R, HLC_ID))	(P)	(3)
5		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIp_R, HLC_ID))	(P)	(3)
6		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIb_R, HLC_ID))	(P)	(3)
7		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
8		+MTCA_PO_N00(1)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(4)
11		[NOT PC_POINT_TO_POINT]			
12		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBA_CH_R(CHIb_R, HLC_ID))	(P)	(3)
13		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	
14		?TIMEOUT TWAIT		(I)	no response
15		+END_PTC1			(4)

Detailed Comments : (1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a

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Test Step Dynamic Behaviour
Detailed Comments : … videotelephony, videoconference or audiographic conference teleservice fallback allowed SETUP message. (3) A valid fallback allowed SETUP message is expected. The IUT has entered N06. (CREF an B_CHN variables are updated) (4) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_N7 (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Call Received call state N7 during which a valid fallback allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(1)

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP (HLC_ID)		(2)
3		[PC_POINT_TO_POINT]			
4		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_ANY_R,CHIp_ANY_R, HLC_ID))	(P)	(3)
5		L0!PDUs	Ms(AL_CH_S(1,CREF, B_CHN))		(4)
6		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIp_R, HLC_ID))	(P)	(3)
7		L0!PDUs	Ms(AL_CH_S(1,CREF, B_CHN))		(4)
8		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIb_R, HLC_ID))	(P)	(3)
9		L0!PDUs	Ms(AL_CH_S(1,CREF, B_CHN))		(4)
10		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+END_PTC1			(5)
14		[NOT PC_POINT_TO_POINT]			
15		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBA_CH_R(CHIb_R, HLC_ID))	(P)	(3)
16		L0!PDUs	Ms(AL_CH_S(1,CREF, B_CHN))		(4)

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	
18		+MTCA_PO_N00(1)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+END_PTC1			(5)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a videotelephony, videoconference or audiographic conference teleservice fallback allowed SETUP message.
(3) A valid fallback allowed SETUP message is received. The IUT has entered N06. (CREF and B_CHN variables are updated.)
(4) An ALERTING message is sent. The IUT enters N07.
(5) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBA_N9 (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Call Received call state N9 during which a valid fallback allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(1)

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M_FBA_S START TWAIT	S_FBA_SETUP (HLC_ID)		(2)
3		[PC_POINT_TO_POINT]			
4		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBA_R(CHIb_ANY_R,CHIp_ANY_R, HLC_ID))	(P)	(3)
5		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
6		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIp_R, HLC_ID))	(P)	(3)
7		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
8		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBA_CH_R(CHIb_R, HLC_ID))	(P)	(3)
9		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
10		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+END_PTC1			(5)
14		[NOT PC_POINT_TO_POINT]			
15		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBA_CH_R(CHIb_R, HLC_ID))	(P)	(3)
16		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
17		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	
18		?TIMEOUT TWAIT		(I)	no respon se
19		+END_PTC1			(5)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a videotelephony, videoconference or audiographic conference teleservice fallback allowed SETUP message.
(3) A valid fallback allowed SETUP message is received. The IUT has entered N06. (CREF and B_CHN variables are updated.)
(4) A CALL POCEEDING message is sent. The IUT enters N09.
(5) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBN_N3 (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Outgoing Call Proceeding call state N3 during which a valid fallback not allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(0)

Comments : This test step is used with PTC1_BCAP_OUT or PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		START TWAIT			
3		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
4		CPA1!CP_M	R_SETUP		(2)
5		L0!PDUs START TAC	Ms(SU_FBN_S(CREF, HLC_ID, CDPN_PTC1))		(3)
6		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(4)
7		?TIMEOUT TAC		(I)	no response
8		+MTCA_PO_N00(0)			postamble N0
9		?TIMEOUT TWAIT		(I)	no response
10		+END_PTC1			(6)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to the slave component to expect a SETUP message.
(4) A valid fallback not allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent to the slave remote user
(5) A CALL PROCEEDING message is received. The IUT has entered N3.
(6) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_FBN_N9 (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Call Received call state N9 during which a valid fallback allowed videotelephony, videoconference or audiographic conference SETUP message with the sending complete information element is sent.

Default : MTCA_DEF(1)

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M_FBN_S START TWAIT	S_FBN_SETUP (HLC_ID)		(2)
3		+rcv_setup			
		rcv_setup			
4		[PC_POINT_TO_POINT]			
5		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_R(CHIb_ANY_R,CHIp_ANY_R, HLC_ID))	(P)	(3)
6		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
7		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIp_R, HLC_ID))	(P)	(3)
8		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
9		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIb_R, HLC_ID))	(P)	(3)
10		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)
11		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	
12		+MTCA_PO_N00(1)			postamble N0
13		?TIMEOUT TWAIT		(I)	no response
14		+END_PTC1			(5)
15		[NOT PC_POINT_TO_POINT]			
16		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBN_CH_R(CHIb_R, HLC_ID))	(P)	(3)
17		L0!PDUs	Ms(CP_S(1,CREF,B_CHN))		(4)

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
18		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	
19		+MTCA_PO_N00(1)			postamble N0
20		?TIMEOUT TWAIT		(I)	no response
21		+END_PTC1			(5)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a videotelephony, videoconference or audiographic conference teleservice fallback not allowed SETUP message.
(3) A valid fallback not allowed SETUP message is received. The IUT has entered N06. (CREF and B_CHN variables are updated.)
(4) A CALL POCEEDING message is sent. The IUT enters N09.
(5) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_IC_N10I (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Active call state N10 on the initial channel in a videotelephony call (Incoming call)

Default : MTCA_DEF(1)

Comments : This test step is used with PTC1_2B_IN

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		CPA1!CP_M_FBN_S START TWAIT	S_FBN_SETUP (HLC_ID)		(2)
3		[PC_POINT_TO_POINT]			(3)
4		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_FBN_R(CHIb_ANY_R,CHIp_ANY_R, HLC_ID))	(P)	(4)
5		+subtree_pr_N10			(5)
6		L0?SETUPr [NOT PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e5_cn) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIp_R, HLC_ID))	(P)	(4)
7		+subtree_pr_N10			(5)
8		L0?SETUPr [PC_BASIC] (CREF := SETUPr.mun.cr.cr_r, B_CHN := SETUPr.mun.chi.chi_e3_cs) CANCEL TWAIT	Sr(SU_FBN_CH_R(CHIb_R, HLC_ID))	(P)	(4)
9		+subtree_pr_N10			(5)
10		L0?SETUPr (CREF := SETUPr.mun.cr.cr_r) CANCEL TWAIT	Sr(SU_ANY_R)	(I)	(6)
11		+MTCA_PO_N00(1)			postamble N0
12		?TIMEOUT TWAIT		(I)	no response
13		+END_PTC1			(7)
14		[NOT PC_POINT_TO_POINT]			(8)
15		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r, B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs) CANCEL TWAIT	SBr(SU_FBN_CH_R(CHIb_R, HLC_ID))	(P)	(4)
16		+subtree_pr_N10			(5)
17		L0?SETUP_BROADCASTr (CREF := SETUP_BROADCASTr.mun.cr.cr_r) CANCEL TWAIT	SBr(SU_ANY_R)	(I)	(6)
18		?TIMEOUT TWAIT		(I)	no response

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		+END_PTC1 subtree_pr_N10			(7)
20		L0!PDUs START TAC	Ms(CN_BCAP_HLC_S(1,CREF, BCAP_UDITA, HLC_ic(HLC_ID)))		(9)
21		L0?PDUr CANCEL TAC	Mr(CA_R(0,CREF))	(P)	(10)
22		?TIMEOUT TAC		(F)	no response
23		+MTCA_PO_N00(1)			postamble N0

Detailed Comments : (1) Preamble to the Null call state N00.
(2) This coordination message indicates to the slave component to send a a fallback not allowed videotelephony, audiographic conference or videoconference SETUP message.
(3) The access associated with the MTC is configured in a point−to−point configuration.
(4) A valid SETUP is received. The IUT has entered N06.
(5) Subtree to bring the IUT from N06 to N10.
(6) A SETUP with an invalid Channel identification information element is received. The preamble fails.
(7) Test step to finish all PTC1 actions.
(6) The access associated with the MTC is configured in a point−to−multipoint configuration.
(7) A CONNECT message is sent. The IUT enters N08.
(8) A CONNECT ACKNOWLEDGE message is received. The IUT has entered N10.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_IC_N10O (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Active call state N10 on the initial channel in a videotelephony call (Outgoing call)

Default : MTCA_DEF(0)

Comments : This test step is used with PTC1_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		START TWAIT			
3		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
4		CPA1!CP_M	R_SETUP		(3)
5		L0!PDUs START TAC	Ms(SU_FBN_S(CREF, HLC_ID, CDPN_PTC1))		(4)
6		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))	(P)	(5)
7		CPA1!CP_M START TWAIT	S_ALERTING		(6)
8		L0?PDUr CANCEL TWAIT	Mr(AL_R(1,CREF))		(7)
9		CPA1!CP_M START TWAIT	S_CONNECT		(8)
10		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))	(P)	(9)
11		?TIMEOUT TWAIT		(I)	no response
12		+MTCA_PO_N00(0)			postamble N0
13		?TIMEOUT TWAIT		(I)	no response
14		+MTCA_PO_N00(0)			postamble N0
15		?TIMEOUT TAC		(I)	no response
16		+MTCA_PO_N00(0)			postamble N0
17		?TIMEOUT TWAIT		(I)	no response
18		+END_PTC1			(10)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to the slave component to expect a SETUP message.
(4) A valid fallback not allowed videotelephony SETUP message with the sending complete information element is sent to the slave remote user
(5) A CALL PROCEEDING message is received. The IUT has entered N3.
(6) This coordination message indicates to the slave component to send an

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Test Step Dynamic Behaviour
Detailed Comments : … ALERTING message. (7) An ALERTING message is received. The IUT has entered N4 (8) This coordination message indicates to the slave component to send a CONNECT message. (9) A CONNECT message is received (10) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PR_2B_N10O (HLC_ID:HLC_ID_LIST)

Group : MTCA/

Objective : Preamble to the Active call state N10 on the initial channel in a videotelephony call (Outgoing call)

Default : MTCA_DEF_2B(0)

Comments : This test step is used with PTC1_2B_OUT

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+MTCA_PR_N00			(1)
2		START TWAIT			
3		CPA1?CP_M CANCEL TWAIT	LAYER_2_ESTABLISHED		(2)
4		CPA1!CP_M START TWAIT	R_SETUP		(3)
5		L0!PDUs START TAC	Ms(SU_FBN_S(CREF, HLC_ID, CDPN_PTC1))		(4)
6		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF))		(5)
7		L0?PDUr	Mr(AL_R(1,CREF))		(6)
8		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF))		(7)
9		CPA1!CP_M START TWAIT	R_SETUP_SC		(8)
10		L0!PDUs START TAC	Ms(SU_SC_S(CREF2, HLC_ID, CDPN_PTC1))		(9)
11		L0?PDUr CANCEL TAC	Mr(CP_R(1,CREF2))		(5)
12		L0?PDUr CANCEL TWAIT	Mr(CN_R(1,CREF2))	(P)	(7)
13		?TIMEOUT TWAIT		(I)	no response
14		+MTCA_PO_2B_N00(0)			postamble N0
15		?TIMEOUT TAC CANCEL TWAIT		(I)	no response
16		+MTCA_PO_2B_N00(0)			postamble N0
17		?TIMEOUT TWAIT		(I)	no response
18		+MTCA_PO_N00(0)			postamble N0
19		?TIMEOUT TWAIT		(I)	no response
20		+MTCA_PO_N00(0)			postamble N0
21		?TIMEOUT TAC CANCEL TWAIT		(I)	no response
22		+MTCA_PO_N00(0)			postamble N0

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
23		?TIMEOUT TWAIT		(I)	no respon se
24		+END_PTC1			(10)

Detailed Comments :
(1) Preamble to the Null call state N00.
(2) This coordination message indicates to the MTC that layer 2 has been established at PTC1.
(3) This coordination message indicates to the slave component to expect a SETUP message.
(4) A valid fallback not allowed videotelephony SETUP message for the initial connection is sent to the slave remote user
(5) A CALL PROCEEDING message is received. The IUT has entered N3.
(6) An ALERTING message is received. The IUT has entered N4
(7) A CONNECT message is received. The IUT has entered N10.
(8) This coordination message indicates to the slave component to expect a SETUP message for the second connection.
(9) A valid fallback not allowed videotelephony SETUP message for the second connection is sent to the slave remote user
(10) Test step to terminate all actions at PTC1.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PO_N00(FL: INTEGER)
Group : MTCA/
Objective : To bring the IUT back to the Null call state N00 and to terminate all active PTCs.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0!PDUs START TAC	Ms(RL_S(FL,CREF,16))		(1)
2		L0?PDUr CANCEL TAC	Mr(RC_R((FL+1)MOD 2,CREF))		(2)
3		+subtree_po			(3)
4		?TIMEOUT TAC		(I)	
5		+subtree_po			(3)
6		L0?OTHERWISE		(I)	(4)
7		+subtree_po			(3)
		subtree_po			
8		[PTC_ACTIVATED]			(5)
9		+END_PTC1			(6)
10		[NOT PTC_ACTIVATED]			(7)
11		[PTCT_ACTIVATED]			(8)
12		+END_PTCT			(9)
13		[NOT PTCT_ACTIVATED]			(10)

Detailed Comments : (1) A valid RELEASE message indicating the cause value 16 "Normal call clearing"
is sent.
(2) A RELEASE COMPLETE message is received from the IUT.
(3) Test step to terminate all actions at PTC1 and PTCT, if activated.
(4) An invalid event occurred.
(5) PTC1 had been activated in the test case (default value).
(6) Test step to terminate all actions at PTC1. The test step assigns the final verdict "R".
(7) PTC1 had not been activated in the test case.
(5) PTCT had been activated in the test case.
(6) Test step to terminate all actions at PTCT. The test step assigns the final verdict "R".
(10) No PTC had been activated in the test case. No further action is required.

Test Step Dynamic Behaviour

Test Step Name : MTCA_PO_2B_N00(FL: INTEGER)
Group : MTCA/
Objective : To bring the IUT back to the Null call state N00 and to terminate all active PTCs.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0!PDUs START TAC	Ms(RL_S(FL,CREF,16))		(1)
2		L0!PDUs	Ms(RL_S(FL,CREF2,16))		(1)
3		L0?PDUr	Mr(RC_R((FL+1)MOD 2,CREF))		(2)
4		L0?PDUr CANCEL TAC	Mr(RC_R((FL+1)MOD 2,CREF2))		(2)
5		+END_PTC1			(3)
6		?TIMEOUT TAC		(I)	no response
7		+END_PTC1			(3)
8		L0?OTHERWISE		(I)	(4)
9		+END_PTC1			(3)
10		L0?PDUr	Mr(RC_R((FL+1)MOD 2,CREF2))		(2)
11		L0?PDUr CANCEL TAC	Mr(RC_R((FL+1)MOD 2,CREF))		(2)
12		+END_PTC1			(3)
13		?TIMEOUT TAC		(I)	no response
14		+END_PTC1			(3)
15		L0?OTHERWISE		(I)	(4)
16		+END_PTC1			(3)
17		?TIMEOUT TAC		(I)	no response
18		+END_PTC1			(3)
19		L0?OTHERWISE		(I)	(4)
20		+END_PTC1			(3)

Detailed Comments : (1) A valid RELEASE message indicating the cause value 16 "Normal call clearing"
is sent.
(2) A RELEASE COMPLETE message is received from the IUT.
(3) Test step to terminate all actions at PTC1.The test step assigns the final verdict.
(4) An invalid event occurred.

Test Step Dynamic Behaviour

Test Step Name : MTCA_CHECK_IN_BAND_TA(FL: INTEGER)

Group : MTCA/

Objective : Test step to check in−band tones and announcement in a 3,1 kHz mode, encoded according to G.711 [77] A−law by an operator

Default : MTCA_DEF(FL)

Comments : Received PDUs at L0 are ignored during this test step.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[PX_CHECK_IN_BAND_TA]			
2		O!DISPLAY START TCTA	CHECK_IN_BAND_TA		(1)
3	L0	?TIMEOUT TCTA		(P)	
4		L0?PDUr	Mr(ANY_MSG_R((FL+1) MOD 2,CREF))		(2)
5		GOTO L0			
6		[NOT PX_CHECK_IN_BAND_TA]			

Detailed Comments : (1) Request to the operator to check in−band tone−announcement
(2) The received messages, when the operator is checking tone and announcement, are ignored

Test Step Dynamic Behaviour

Test Step Name : MTCA_CS(ES, FL: INTEGER)
Group : MTCA/
Objective : To check the call state of the IUT.
Default : MTCA_DEF(FL)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0!PDUs (CSTV := ES, END_FLAG := FALSE) START TAC	Ms(SQ_S(FL,CREF))		(1)
2		REPEAT subtree_cs(FL) UNTIL [END_FLAG]			(2)
3		[CSTV <> 19]			
4		[CSTV <> 0]			
5		+MTCA_PO_N00(FL)			postamble N0
6		[CSTV = 0]			
7		[PTC_ACTIVATED]			
8		+END_PTC1			(3)
9		[NOT PTC_ACTIVATED]			
10		[CSTV = 19]			
11		L0!PDUs	Ms(RC_S(FL,CREF))		(4)
12		[PTC_ACTIVATED]			
13		+END_PTC1			(3)
14		[NOT PTC_ACTIVATED]			
		subtree_cs(FL: INTEGER)			
15		L0?DL_REL_IN [((CSTV=0) AND PX_L2_RELEASE_N00) OR (CSTV = 22)] CANCEL TAC		(P)	(5)
16		(END_FLAG := TRUE)			
17		L0?SETUPr [(CSTV=6) AND PC_POINT_TO_POINT]	Sr(SU_ANY_R)		(6)
18		L0?SETUP_BROADCASTr [(CSTV=6) AND (NOT PC_POINT_TO_POINT)]	SBr(SU_ANY_R)		(6)
19		L0?PDUr [CSTV=2]	Mr(CP_R(1,CREF))		(7)
20		(CSTV := 3)			
21		L0?PDUr CANCEL TAC	Mr(ST_R((FL+1) MOD 2,CREF,30,CSTV))	(P)	(8)
22		(END_FLAG := TRUE)			
23		L0?PDUr CANCEL TAC	Mr(ST_R((FL+1) MOD 2,CREF,97,CSTV))	(P)	(8)
24		(END_FLAG := TRUE)			
25		L0?PDUr CANCEL TAC	Mr(ST_R((FL+1) MOD 2,CREF,98,CSTV))	(P)	(8)
26		(END_FLAG := TRUE)			
27		?TIMEOUT TAC		(F)	no response

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
28		(END_FLAG := TRUE)			

Detailed Comments :
(1) A STATUS ENQUIRY message is sent.
(2) The subtree SUBTREE_CS is repeated until a STATUS message indicating the current call state and a valid cause value is received.
(3) Test step to terminate all actions at PTC1. The test step assigns the final verdict "R".
(4) A RELEASE COMPLETE message is sent in call state N19 to bring the IUT to call state N00.
(5) A DL−RELEASE−INDICATION is received. The IUT has released the multiple frame established operation after entering N00 or N22.
(6) A SETUP message is received in N06 caused by the first timeout of T303.
(7) A CALL PROCEEDING message is received in call state N02. The expected call state value is set to 3.
(8) A STATUS message is received indicating the expected call state value and an appropriate cause value (30, 97 or 98).

Test Step Dynamic Behaviour

Test Step Name : MTCA_CS_2B(ES1, ES2, FL: INTEGER)
Group : MTCA/
Objective : To check the call states of the IUT (Two calls in progress).
Default : MTCA_DEF_2B(FL)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0!PDUs (CSTV := ES1, CSTV2 := ES2, END_FLAG := FALSE) START TAC	Ms(SQ_S(FL,CREF))		(1)
2		L0!PDUs	Ms(SQ_S(FL,CREF2))		(1)
3		REPEAT subtree_cs_2cr(FL) UNTIL [END_FLAG AND OTHER_FLAG]			(2)
4		CANCEL TAC			
5		[CSTV2 = 19]			
6		L0!PDUs	Ms(RC_S(FL,CREF2))		(3)
		subtree_cs_2cr(FL1: INTEGER)			
7		L0?SETUPr [(CSTV2=6) AND PC_POINT_TO_POINT]	Sr(SU_ANY_R)		(4)
8		L0?SETUP_BROADCASTr [(CSTV2=6) AND (NOT PC_POINT_TO_POINT)]	SBr(SU_ANY_R)		(4)
9		L0?PDUr [CSTV=2]	Mr(CP_R(1,CREF))		(5)
10		(CSTV := 3)			
11		L0?PDUr [CSTV2=2]	Mr(CP_R(1,CREF2))		(5)
12		(CSTV2 := 3)			
13		L0?PDUr (END_FLAG := TRUE)	Mr(ST_R((FL+1) MOD 2,CREF,30,CSTV))	(P)	(6)
14		L0?PDUr (END_FLAG := TRUE)	Mr(ST_R((FL+1) MOD 2,CREF,97,CSTV))	(P)	(6)
15		L0?PDUr (END_FLAG := TRUE)	Mr(ST_R((FL+1) MOD 2,CREF,98,CSTV))	(P)	(6)
16		L0?PDUr (OTHER_FLAG := TRUE)	Mr(ST_R((FL+1) MOD 2,CREF2,30,CSTV2))	(P)	(6)
17		L0?PDUr (OTHER_FLAG := TRUE)	Mr(ST_R((FL+1) MOD 2,CREF2,97,CSTV2))	(P)	(6)
18		L0?PDUr (OTHER_FLAG := TRUE)	Mr(ST_R((FL+1) MOD 2,CREF2,98,CSTV2))	(P)	(6)
19		?TIMEOUT TAC		(F)	no respon se
20		(END_FLAG := TRUE, OTHER_FLAG := TRUE)			

Detailed Comments : (1) A STATUS ENQUIRY message is sent.
(2) The subtree SUBTREE_CS_2CR is repeated until a STATUS message indicating the current call state and a valid cause value is received.
(3) A RELEASE COMPLETE message is sent in call state N19 to bring the IUT to call state N00.
(4) A SETUP message is received in N06 caused by the first timeout of T303.
(5) A CALL PROCEEDING message is received in call state N02. The expected

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Test Step Dynamic Behaviour
Detailed Comments : … call state value is set to 3. (6) A STATUS message is received indicating the expected call state value and an appropriate cause value (30, 97 or 98).

Test Step Dynamic Behaviour

Test Step Name : PTC1_PR_N00
Group : PTC1/
Objective : Preamble to the Null call state N00 for PTC1.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+init_variables			(1)
2		L1!DL_REL_RQ START TAC			(2)
3		L1?DL_REL_CO CANCEL TAC			(3)
4		L1!DL_EST_RQ START TAC			(4)
5	L1	L1?DL_EST_CO CANCEL TAC			(5)
6		+wait_restart			(6)
7		(L2_ESTABLISHED := TRUE)			
8		L1?DL_REL_IN START TNOAC			(7)
9		L1?DL_EST_IN CANCEL TAC , CANCEL TNOAC			(8)
10		+wait_restart			(6)
11		(L2_ESTABLISHED := TRUE)			
12		?TIMEOUT TNOAC			
13		L1!DL_EST_RQ			(4)
14		GOTO L1			
15		L1?OTHERWISE			
16		L1?DL_EST_IN CANCEL TAC , START TNOAC			(8)
17		L1?DL_EST_CO CANCEL TNOAC			(9)
18		+wait_restart			
19		(L2_ESTABLISHED := TRUE)			
20		?TIMEOUT TNOAC			no response
21		L1?OTHERWISE			(10)
22		?TIMEOUT TAC			no response
23		L1?OTHERWISE			(10)
24		?TIMEOUT TAC			no response
25		L1?OTHERWISE			(10)
		init_variables			
26		[PC_BASIC]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		(P1CREF:= ’0000001’B, P1CREF2:=’0000010’B, GLOB_CREF:=’0000000’B, P1_B_CHN:=INT_TO_BIT(PX_CH_NUM, 2),P1_B_CHN2:=INT_TO_BIT(PX_CH_NUM2,2))			
28		[NOT PC_BASIC]			
29		(P1CREF:= ’000000000000001’B, P1CREF2:=’000000000000010’B, GLOB_CREF:=’000000000000000’B, P1_B_CHN:=INT_TO_BIT(PX_CH_NUM, 7), P1_B_CHN2:=INT_TO_BIT(PX_CH_NUM2,7))			
		wait_restart			
30		[PX_WAIT_RESTART]			
31		START T_RESTART			
32	LR	L1?RESTARTr CANCEL T_RESTART	RSr(RST_R(0,GLOB_CREF,6))		Single interface
33		L1!PDUs	Ms(RSA_S(1,GLOB_CREF,6))		
34		GOTO LR			
35		L1?RESTARTr CANCEL T_RESTART	RSr(RST_R(0,GLOB_CREF,7))		All interfaces
36		L1!PDUs	Ms(RSA_S(1,GLOB_CREF,7))		
37		GOTO LR			
38		L1?RESTARTr [NOT PC_BASIC] (B_CHN_RS:=RESTARTr.mun.chi_rs.chi_cn, CHI_LENGTH := RESTARTr.mun.chi.chi_l) CANCEL T_RESTART	RSr(RST_CHN_R(0,GLOB_CREF,0))		Indicated channels
39		L1!PDUs	Ms(RSA_CHN_S(1,GLOB_CREF,P1_B_CHN, B_CHN_RS,CHI_LENGTH,0))		
40		GOTO LR			
41		L1?RESTARTr [PC_BASIC] (P1_B_CHN:=RESTARTr.mun.chi.chi_e3_cs) CANCEL T_RESTART	RSr(RST_CHN_R(0,GLOB_CREF,0))		Indicated channels
42		L1!PDUs	Ms(RSA_CHN_S(1,GLOB_CREF,P1_B_CHN, B_CHN_RS,CHI_LENGTH,0))		
43		GOTO LR			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
44		?TIMEOUT T_RESTART			
45		CPA1! CP_M	N00_Ready		
46		[NOT PX_WAIT_RESTART]			

Detailed Comments : The layer 2 of the IUT at the access related to PTC1 must have a TEI assigned value before the execution of this preamble. The procedure to assign the TEI value to the IUT is a matter for the test laboratory.
(1) The local subtree INIT_VARIABLES is used to assign initial values to test case variables taking into account the used interface configuration.
(2) Termination of the multiple frame operation is requested (A DISC frame is sent).
(3) Termination of the multiple frame operation is confirmed (A UA or a DM frame is received).
(4) Establishment of the multiple frame operation is requested (A SABME frame is sent).
(5) Establishment of the multiple frame operation is confirmed (A UA frame is received).
(6) The local subtree WAIT_RESTART is used to deal with the receipt of RESTART messages that may be sent by the IUT after the re−establishment of the multiple frame operation.
(7) An unsucessful establishment attempt is reported (A DM frame is received).
(8) Establishment of the multiple frame operation is indicated (A SABME frame is received and a UA frame is sent).
(9) Establishment of the multiple frame operation (requested in line 4) is confirmed (A UA frame is received).
(10) Any other event occurred.

Test Step Dynamic Behaviour

Test Step Name : PTC1_IN
Group : PTC1/
Objective : Test step to initiate and handle incoming calls (from the MTC's point of view).
Default : PTC1_DEF(0)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR_N00			preamble N00
2		REPEAT loop UNTIL [STOP_FLAG1]			(1)
		loop			
3		CPA1?CP_M	S_FBA_7kHz_SETUP		(2)
4		L1!PDUs	Ms(SU_FBA_7kHz_S(P1CREF, CDPN_MTCA))		
5		CPA1?CP_M	S_FBN_7kHz_SETUP		(3)
6		L1!PDUs	Ms(SU_FBN_7kHz_S(P1CREF, CDPN_MTCA))		
7		CPA1?CP_M_FBA_S (ACT_HLC_ID:=CP_M_FBA_S.CM_par)	S_FBA_SETUP(?)		(4)
8		L1!PDUs	Ms(SU_FBA_S(P1CREF, ACT_HLC_ID, CDPN_MTCA))		
9		CPA1?CP_M_FBN_S (ACT_HLC_ID:=CP_M_FBN_S.CM_par)	S_FBN_SETUP(?)		(5)
10		L1!PDUs	Ms(SU_FBN_S(P1CREF, ACT_HLC_ID, CDPN_MTCA))		
11		CPA1?CP_M	S_DISCONNECT		(6)
12		L1!PDUs	Ms(DI_S(0,P1CREF,16))		
13		L1?PDUr	Mr(RL_R(1,P1CREF))		(7)
14		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_S(0,P1CREF))		(8)
15		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(DI_ANY_CAU_R(1, P1CREF))		(9)
16		+PTC1_PO_N00(0)			postamble N0
17		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RC_R(1,P1CREF))		(10)
18		CPA1?CP_M (STOP_FLAG1:=TRUE)	STOP_PTC		(14)
19		+PTC1_PO_N00(0)			postamble N0

Detailed Comments :
(1) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of STOP_FLAG1 is FALSE.
(2) A coordination message prompting PTC1 to send a SETUP message for a 7 kHz call which allows fallback. In the following event line this SETUP message is sent.
(3) A coordination message prompting PTC1 to send a SETUP message for a 7 kHz call which does not allow fallback. In the following event line

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Test Step Dynamic Behaviour
Detailed Comments : … this SETUP message is sent. (4) A coordination message prompting PTC1 to send a SETUP message for a videotelephony, audiographic conference or videoconference call which allows fallback In the following event line this SETUP message is sent. (5) A coordination message prompting PTC1 to send a SETUP message for a videotelephony, audiographic conference or videoconference call which does not allow fallback In the following event line this SETUP message is sent. (6) A coordination message prompting PTC1 to send a DISCONNECT message is received. In the following event lines this DISCONNECT message is sent. (7) A RELEASE message is received. (8) A RELEASE COMPLETE message is sent and the subtree is left. (9) A DISCONNECT message is received with any cause value. (10) A RELEASE COMPLETE message is received and the subtree is left. (11) A coordination message from MTCA prompting PTC1 to release its call

Test Step Dynamic Behaviour

Test Step Name : PTC1_OUT
Group : PTC1/
Objective : Test step to initiate and handle outgoing calls (from the MTC's point of view).
Default : PTC1_DEF(1)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR_N00			preamble N00
2		[L2_ESTABLISHED]			
3		CPA1!CP_M	LAYER_2_ESTABLISHED		(0)
4		REPEAT loop UNTIL [STOP_FLAG1]			(1)
5		[NOT L2_ESTABLISHED]			
		loop			
6		CPA1?CP_M	R_SETUP		(2)
7		L1?SETUPr (P1CREF := SETUPr.mun.cr.cr_r)	Sr(SU_CHs_R(CHIb_ANY_R,CHIp_ANY_R))		(3)
8		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
9		L1?SETUPr [NOT PC_BASIC] (P1CREF := SETUPr.mun.cr.cr_r , P1_B_CHN := SETUPr.mun.chi.chi_e5_cn)	Sr(SU_CH_R(CHIp_R))		(3)
10		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
11		L1?SETUPr [PC_BASIC] (P1CREF := SETUPr.mun.cr.cr_r, P1_B_CHN := SETUPr.mun.chi.chi_e3_cs)	Sr(SU_CH_R(CHIb_R))		(3)
12		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
13		L1?SETUP_BROADCASTr [PC_BASIC] (P1CREF := SETUP_BROADCASTr.mun.cr.cr_r, P1_B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs)	SBr(SU_CH_R(CHIb_R))		(5)
14		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
15		L1?SETUPr (P1CREF := SETUPr.mun.cr.cr_r)	Sr(SU_ANY_R)		(6)
16		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_CAU_S(1,P1CREF,31))		(7)
17		L1?SETUP_BROADCASTr [PC_BASIC] (P1CREF := SETUP_BROADCASTr.mun.cr.cr_r)	SBr(SU_ANY_R)		(6)
18		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_CAU_S(1,P1CREF,31))		(7)
19		CPA1?CP_M	S_ALERTING		(8)

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		L1!PDUs	Ms(AL_CH_S(1,P1CREF,P1_B_CHN))		
21		CPA1?CP_M	S_CONNECT		(9)
22		L1!PDUs	Ms(CN_S(1,P1CREF))		
23		L1?PDUr	Mr(CA_R(0,P1CREF))		
24		CPA1?CP_M	S_DISCONNECT		(10)
25		L1!PDUs	Ms(DI_S(1,P1CREF,16))		
26		L1?PDUr	Mr(RL_R(0,P1CREF))		(11)
27		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_S(1,P1CREF))		(7)
28		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(DI_ANY_CAU_R(0,P1CREF))		(12)
29		+PTC1_PO_N00(1)			postamble N0
30		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RC_R(0,P1CREF))		(13)
31		CPA1?CP_M (STOP_FLAG1:=TRUE)	STOP_PTC		(14)
32		+PTC1_PO_N00(1)			postamble N0

Detailed Comments :
(0) A coordination message is sent to the MTC indicating the layer 2 has been established.
(1) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of STOP_FLAG1 is FALSE.
(2) A coordination message prompting PTC1 to expect a SETUP message is received. In the following event lines this SETUP message is expected.
(3) A valid SETUP message is received via the point−to−point data link.
(4) A CALL PROCEEDING message is sent.
(5) A valid SETUP message is received via the point−to−multipoint data link.
(6) An invalid SETUP message is received.
(7) A RELEASE COMPLETE message is sent and the subtree is left.
(8) A coordination message prompting PTC1 to send an ALERTING message is received. In the following event lines this ALERTING message is sent.
(9) A coordination message prompting PTC1 to send a CONNECT message is received. In the following event lines this CONNECT message is sent.
(10) A coordination message prompting PTC1 to send a DISCONNECT message is received. In the following event lines this DISCONNECT message is sent.
(11) A RELEASE message is received.
(12) A DISCONNECT message is received.
(13) A RELEASE COMPLETE message is received and the subtree is left.
(14) A coordination message from MTCA prompting PTC1 to release its call

Test Step Dynamic Behaviour

Test Step Name : PTC1_BCAP_OUT(BCAPV : BCAP)

Group : PTC1/

Objective : Test step to initiate and handle outgoing calls (from the MTC's point of view) in which a bearer capability BCAP is sent in the CONNECT PDU.

Default : PTC1_DEF(1)

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR_N00			preamble N00
2		[L2_ESTABLISHED]			
3		CPA1!CP_M	LAYER_2_ESTABLISHED		(0)
4		REPEAT loop UNTIL [STOP_FLAG1]			(1)
5		[NOT L2_ESTABLISHED]			
		loop			
6		CPA1?CP_M	R_SETUP		(2)
7		L1?SETUPr (P1CREF := SETUPr.mun.cr.cr_r)	Sr(SU_CHs_R(CHIb_ANY_R,CHIp_ANY_R))		(3)
8		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
9		L1?SETUPr [NOT PC_BASIC] (P1CREF := SETUPr.mun.cr.cr_r , P1_B_CHN := SETUPr.mun.chi.chi_e5_cn)	Sr(SU_CH_R(CHIp_R))		(3)
10		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
11		L1?SETUPr [PC_BASIC] (P1CREF := SETUPr.mun.cr.cr_r, P1_B_CHN := SETUPr.mun.chi.chi_e3_cs)	Sr(SU_CH_R(CHIb_R))		(3)
12		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
13		L1?SETUP_BROADCASTr [PC_BASIC] (P1CREF := SETUP_BROADCASTr.mun.cr.cr_r, P1_B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs)	SBr(SU_CH_R(CHIb_R))		(5)
14		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
15		L1?SETUPr (P1CREF := SETUPr.mun.cr.cr_r)	Sr(SU_ANY_R)		(6)
16		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_CAU_S(1,P1CREF,31))		(7)
17		L1?SETUP_BROADCASTr [PC_BASIC] (P1CREF := SETUP_BROADCASTr.mun.cr.cr_r)	SBr(SU_ANY_R)		(6)
18		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_CAU_S(1,P1CREF,31))		(7)
19		CPA1?CP_M	S_ALERTING		(8)

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
20		L1!PDUs	Ms(AL_CH_S(1,P1CREF,P1_B_CHN))		
21		CPA1?CP_M	S_CONNECT		(9)
22		L1!PDUs	Ms(CN_BCAP_S(1,P1CREF,BCAPV))		
23		L1?PDUr	Mr(CA_R(0,P1CREF))		
24		CPA1?CP_M	S_DISCONNECT		(10)
25		L1!PDUs	Ms(DI_S(1,P1CREF,16))		
26		L1?PDUr	Mr(RL_R(0,P1CREF))		(11)
27		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_S(1,P1CREF))		(7)
28		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(DI_ANY_CAU_R(0,P1CREF))		(12)
29		+PTC1_PO_N00(1)			postamble N0
30		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RC_R(0,P1CREF))		(13)
31		CPA1?CP_M (STOP_FLAG1:=TRUE)	STOP_PTC		(14)
32		+PTC1_PO_N00(1)			postamble N0

Detailed Comments :
(0) A coordination message is sent to the MTC indicating the layer 2 has been established.
(1) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of STOP_FLAG1 is FALSE.
(2) A coordination message prompting PTC1 to expect a SETUP message is received. In the following event lines this SETUP message is expected.
(4) A CALL PROCEEDING message is sent.
(3) A valid SETUP message is received via the point−to−point data link.
(5) A valid SETUP message is received via the point−to−multipoint data link.
(6) An invalid SETUP message is received.
(7) A RELEASE COMPLETE message is sent and the subtree is left.
(8) A coordination message prompting PTC1 to send an ALERTING message is received. In the following event lines this ALERTING message is sent.
(9) A coordination message prompting PTC1 to send a CONNECT message is received. In the following event lines this CONNECT message is sent.
(10) A coordination message prompting PTC1 to send a DISCONNECT message is received. In the following event lines this DISCONNECT message is sent.
(11) A RELEASE message is received.
(12) A DISCONNECT message is received.
(13) A RELEASE COMPLETE message is received and the subtree is left.
(14) A coordination message from PTC0 prompting PTC1 to release its call

Test Step Dynamic Behaviour

Test Step Name : PTC1_BCAP_HLC_OUT(BCAPV : BCAP; HLCV : HLC)

Group : PTC1/

Objective : Test step to initiate and handle outgoing calls (from the MTC's point of view) in which a bearer capability BCAPV and a high layer compatibility is sent in the CONNECT PDU.

Default : PTC1_DEF(1)

Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR_N00			preamble N00
2		[L2_ESTABLISHED]			
3		CPA1!CP_M	LAYER_2_ESTABLISHED		(0)
4		REPEAT loop UNTIL [STOP_FLAG1]			(1)
5		[NOT L2_ESTABLISHED]			
		loop			
6		CPA1?CP_M	R_SETUP		(2)
7		L1?SETUPr (P1CREF := SETUPr.mun.cr.cr_r)	Sr(SU_CHs_R(CHIb_ANY_R,CHIp_ANY_R))		(3)
8		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
9		L1?SETUPr [NOT PC_BASIC] (P1CREF := SETUPr.mun.cr.cr_r , P1_B_CHN := SETUPr.mun.chi.chi_e5_cn)	Sr(SU_CH_R(CHIp_R))		(3)
10		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
11		L1?SETUPr [PC_BASIC] (P1CREF := SETUPr.mun.cr.cr_r, P1_B_CHN := SETUPr.mun.chi.chi_e3_cs)	Sr(SU_CH_R(CHIb_R))		(3)
12		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
13		L1?SETUP_BROADCASTr [PC_BASIC] (P1CREF := SETUP_BROADCASTr.mun.cr.cr_r, P1_B_CHN := SETUP_BROADCASTr.mun.chi.chi_e3_cs)	SBr(SU_CH_R(CHIb_R))		(5)
14		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
15		L1?SETUPr (P1CREF := SETUPr.mun.cr.cr_r)	Sr(SU_ANY_R)		(6)
16		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_CAU_S(1,P1CREF,31))	I	(7)
17		L1?SETUP_BROADCASTr [PC_BASIC] (P1CREF := SETUP_BROADCASTr.mun.cr.cr_r)	SBr(SU_ANY_R)		(6)
18		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_CAU_S(1,P1CREF,31))	I	(7)

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
19		CPA1?CP_M	S_ALERTING		(8)
20		L1!PDUs	Ms(AL_CH_S(1,P1CREF,P1_B_CHN))		
21		CPA1?CP_M	S_CONNECT		(9)
22		L1!PDUs	Ms(CN_BCAP_HLC_S(1, P1CREF, BCAPV, HLCV))		
23		L1?PDUr	Mr(CA_R(0,P1CREF))		
24		CPA1?CP_M	S_DISCONNECT		(10)
25		L1!PDUs	Ms(DI_S(1,P1CREF,16))		
26		L1?PDUr	Mr(RL_R(0,P1CREF))		(11)
27		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_S(1,P1CREF))		(7)
28		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(DI_ANY_CAU_R(0, P1CREF))		(12)
29		+PTC1_PO_N00(1)			postamble N0
30		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RC_R(0,P1CREF))		(13)
31		CPA1?CP_M (STOP_FLAG1:=TRUE)	STOP_PTC		(14)
32		+PTC1_PO_N00(1)			postamble N0

Detailed Comments :
(0) A coordination message is sent to the MTC indicating the layer 2 has been established.
(1) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of STOP_FLAG1 is FALSE.
(2) A coordination message prompting PTC1 to expect a SETUP message is received. In the following event lines this SETUP message is expected.
(4) A CALL PROCEEDING message is sent.
(3) A valid SETUP message is received via the point−to−point data link.
(5) A valid SETUP message is received via the point−to−multipoint data link.
(6) An invalid SETUP message is received.
(7) A RELEASE COMPLETE message is sent and the subtree is left.
(8) A coordination message prompting PTC1 to send an ALERTING message is received. In the following event lines this ALERTING message is sent.
(9) A coordination message prompting PTC1 to send a CONNECT message is received. In the following event lines this CONNECT message is sent.
(10) A coordination message prompting PTC1 to send a DISCONNECT message is received. In the following event lines this DISCONNECT message is sent.
(11) A RELEASE message is received.
(12) A DISCONNECT message is received.
(13) A RELEASE COMPLETE message is received and the subtree is left.
(14) A coordination message from MTCA prompting PTC1 to release its call

Test Step Dynamic Behaviour

Test Step Name : PTC1_2B_IN
Group : PTC1/
Objective : Test step to initiate and handle incoming calls (from the MTC's point of view).
Default : PTC1_DEF_2B(0)
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR_N00			preamble N00
2		REPEAT loop UNTIL [STOP_FLAG1]			(1)
		loop			
3		CPA1?CP_M_FBN_S (ACT_HLC_ID:=CP_M_FBN_S.CM_par)	S_FBN_SETUP (?)		(2)
4		L1!PDUs	Ms(SU_FBN_S(P1CREF, ACT_HLC_ID, CDPN_MTCA))		
5		CPA1?CP_M_SC_S (ACT_HLC_ID:=CP_M_SC_S.CM_par)	S_SC_SETUP (?)		(3)
6		L1!PDUs (TWO_CALLS := TRUE)	Ms(SU_SC_S(P1CREF2, ACT_HLC_ID, CDPN_MTCA))		
7		CPA1?CP_M	S_DISCONNECT		(4)
8		L1!PDUs	Ms(DI_S(0,P1CREF,16))		
9		L1?PDUr	Mr(RL_R(1,P1CREF))		(5)
10		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_S(0,P1CREF))		
11		[TWO_CALLS]			
12		L1!PDUs	Ms(RL_S(0,P1CREF2,16))		(6)
13		L1?PDUr CANCEL	Mr(RC_R(1,P1CREF2))		
14		[NOT TWO_CALLS]			
15		L1?PDUr	Mr(RL_R(1,P1CREF2))		(7)
16		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_S(0,P1CREF2))		
17		L1!PDUs	Ms(RL_S(0,P1CREF,16))		(8)
18		L1?PDUr	Mr(RC_R(1,P1CREF))		
19		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(DI_ANY_CAU_R(1,P1CREF))		(9)
20		+PTC1_PO_N00(0)			postamble N0
21		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(DI_ANY_CAU_R(1,P1CREF2))		(9)
22		+PTC1_PO_N00(0)			postamble N0
23		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RC_R(1,P1CREF))		(10)
24		[TWO_CALLS]			

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25		L1!PDUs	Ms(RL_S(0,P1CREF2,16))		
26		L1?PDUr	Mr(RC_R(1,P1CREF2))		
27		[NOT TWO_CALLS]			
28		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RC_R(1,P1CREF2))		(10)
29		L1!PDUs	Ms(RL_S(0,P1CREF,16))		
30		L1?PDUr	Mr(RC_R(1,P1CREF))		
31		CPA1?CP_M (STOP_FLAG1:=TRUE)	STOP_PTC		(14)
32		+PTC1_PO_N00(1)			postamble N0

Detailed Comments : (1) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of STOP_FLAG1 is FALSE.
(2) A coordination message prompting PTC1 to send a SETUP message for a videotelephony, audiographic conference or videoconference call which does not allow fallback In the following event line this SETUP message is sent.
(3) A coordination message prompting PTC1 to send a SETUP message for the additional channel of a videotelephony, audiographic conference or videoconference call. In the following event line this SETUP message is sent.
(4) A coordination message prompting PTC1 to send a DISCONNECT message is received. In the following event lines this DISCONNECT message is sent.
(5) A RELEASE message is received for the initial channel.
(6) If exists, the additionnal channel is released too
(7) A RELEASE message is received for the additional channel.
(8) Initial channel is released too
(9) A DISCONNECT message is received with any cause value.
(10) A RELEASE COMPLETE message is received and the subtree is left.
(11) A coordination message from MTCA prompting PTC1 to release its call

Test Step Dynamic Behaviour

Test Step Name : PTC1_2B_OUT

Group : PTC1/

Objective : Test step to initiate and handle outgoing calls (from the MTC's point of view) for videotelphony two B−channels call.

Default : PTC1_DEF_2B(1)

Comments : When one B−channel is released, the other is released automaticly also.

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+PTC1_PR_N00			preamble N00
2		[L2_ESTABLISHED]			
3		CPA1!CP_M	LAYER_2_ESTABLISHED		(0)
4		REPEAT loop UNTIL [STOP_FLAG1]			(1)
5		[NOT L2_ESTABLISHED]			
		loop			
6		CPA1?CP_M	R_SETUP		(2)
7		+rcv_setup(P1CREF,P1_B_CHN)			(3)
8		L1!PDUs	Ms(CP_S(1,P1CREF,P1_B_CHN))		(4)
9		L1!PDUs	Ms(AL_CH_S(1,P1CREF,P1_B_CHN))		
10		L1!PDUs	Ms(CN_S(1, P1CREF))		
11		L1?PDUr	Mr(CA_R(0,P1CREF))		
12		CPA1?CP_M	R_SETUP_SC		(5)
13		+rcv_setup(P1CREF2,P1_B_CHN2)			(6)
14		L1!PDUs (TWO_CALLS := TRUE)	Ms(CP_S(1,P1CREF2,P1_B_CHN2))		(4)
15		L1!PDUs	Ms(CN_S(1, P1CREF2))		
16		L1?PDUr	Mr(CA_R(0,P1CREF2))		
17		CPA1?CP_M	S_DISCONNECT		(7)
18		L1!PDUs	Ms(DI_S(1,P1CREF,16))		
19		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RL_R(0,P1CREF))		(8)
20		L1!PDUs	Ms(RC_S(1,P1CREF))		
21		[TWO_CALLS]			
22		L1!PDUs	Ms(RL_S(1,P1CREF2,16))		
23		L1?PDUr	Mr(RC_R(0,P1CREF2))		
24		[NOT TWO_CALLS]			
25		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RL_R(0,P1CREF2))		(9)
26		L1!PDUs	Ms(RC_S(1,P1CREF2))		
27		L1!PDUs	Ms(RL_S(1,P1CREF,16))		
28		L1?PDUr CANCEL	Mr(RC_R(0,P1CREF))		

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Test Step Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
29		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(DI_ANY_CAU_R(0, P1CREF))		(10)
30		+PTC1_PO_N00(1)			postamble N0
31		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(DI_ANY_CAU_R(0, P1CREF2))		(11)
32		+PTC1_PO_N00(1)			postamble N0
33		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RC_R(0,P1CREF))		(12)
34		[TWO_CALLS]			
35		L1!PDUs	Ms(RL_S(1,P1CREF2,16))		
36		L1?PDUr	Mr(RC_R(0,P1CREF2))		
37		[NOT TWO_CALLS]			
38		L1?PDUr (STOP_FLAG1:=TRUE)	Mr(RC_R(0,P1CREF2))		(13)
39		L1!PDUs	Ms(RL_S(1,P1CREF,16))		
40		L1?PDUr	Mr(RC_R(0,P1CREF))		
41		CPA1?CP_M (STOP_FLAG1:=TRUE)	STOP_PTC		(14)
42		+PTC1_PO_N00(1)			postamble N0
		rcv_setup(pcref : CALL_REF_TYPE; p_b_chn : BITSTRING)			
43		L1?SETUPr (pcref := SETUPr.mun.cr.cr_r)	Sr(SU_CHs_R(CHIb_ANY_R,CHIp_ANY_R))		
44		L1?SETUPr [NOT PC_BASIC] (pcref := SETUPr.mun.cr.cr_r , p_b_chn := SETUPr.mun.chi.chi_e5_cn)	Sr(SU_CH_R(CHIp_R))		
45		L1?SETUPr [PC_BASIC] (pcref := SETUPr.mun.cr.cr_r, p_b_chn := SETUPr.mun.chi.chi_e3_cs)	Sr(SU_CH_R(CHIb_R))		
46		L1?SETUP_BROADCASTr [PC_BASIC] (pcref := SETUP_BROADCASTr.mun.cr.cr_r, p_b_chn := SETUP_BROADCASTr.mun.chi.chi_e3_cs)	SBr(SU_CH_R(CHIb_R))		
47		L1?SETUPr (pcref := SETUPr.mun.cr.cr_r)	Sr(SU_ANY_R)		
48		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_CAU_S(1,pcref, 31))		
49		L1?SETUP_BROADCASTr [PC_BASIC] (pcref := SETUP_BROADCASTr.mun.cr.cr_r)	SBr(SU_ANY_R)		
50		L1!PDUs (STOP_FLAG1:=TRUE)	Ms(RC_CAU_S(1,pcref, 31))		

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Test Step Dynamic Behaviour
Detailed Comments : (1) The subtree that handles all message transfers at PTC1 is called in a REPEAT statement. The initial value of STOP_FLAG1 is FALSE. (2) A coordination message prompting PTC1 to expect a SETUP message is received (3) Subtree to expect a SETUP message for the initial channel (4) The call is fully established (5) A coordination message prompting PTC1 to expect a SETUP message for the additional channel (6) Subtree to expect a SETUP message for the second channel (7) A coordination message prompting PTC1 to send a DISCONNECT message is received. In the following event lines this DISCONNECT message is sent. (8) A RELEASE message is received for the first call, all the calls will be released (9) A RELEASE message is received for the second call, all the calls will be released (10) A DISCONNECT message is received on the first call, all the calls will be released. (11) A DISCONNECT message is received on the second call, all the calls will be released. (12) A RELEASE COMPLETE message is received on the first call, the second one is released. (13) A RELEASE COMPLETE message is received on the second call, the first one is released. (14) A coordination message from MTCA prompting PTC1 to release its calls

Test Step Dynamic Behaviour

Test Step Name : PTC1_PO_N00(FL: INTEGER)
Group : PTC1/
Objective : To bring the IUT back to the Null call state N00 for PTC1.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[TWO_CALLS]			
2		L1!PDUs START TAC	Ms(RL_S(FL,P1CREF2, 16))		(1)
3		L1!PDUs	Ms(RL_S(FL,P1CREF,16))		(1)
4		L1?PDUr	Mr(RC_R((FL + 1) MOD 2,P1CREF2))		(2)
5		L1?PDUr CANCEL TAC	Mr(RC_R((FL + 1) MOD 2,P1CREF))		(2)
6		?TIMEOUT TAC			no response
7		L1?OTHERWISE			(3)
8		L1?PDUr	Mr(RC_R((FL + 1) MOD 2,P1CREF))		(2)
9		L1?PDUr CANCEL TAC	Mr(RC_R((FL + 1) MOD 2,P1CREF2))		(2)
10		?TIMEOUT TAC			no response
11		L1?OTHERWISE			(3)
12		?TIMEOUT TAC			no response
13		L1?OTHERWISE			(3)
14		[NOT TWO_CALLS]			
15		L1!PDUs START TAC	Ms(RL_S(FL,P1CREF,16))		(1)
16		L1?PDUr CANCEL TAC	Mr(RC_R((FL + 1) MOD 2,P1CREF))		(2)
17		?TIMEOUT TAC			no response
18		L1?OTHERWISE			(3)

Detailed Comments : (1) A valid RELEASE message indicating the cause value 16 "Normal call clearing" is sent.
(2) A RELEASE COMPLETE message is received from the IUT
(3) An invalid event occured

Test Step Dynamic Behaviour

Test Step Name : PTCT_OUT
Group : PTCT/
Objective : Test step to initiate and handle outgoing PSTN calls (from the MTC's point of view).
Default : PTCT_DEF
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		REPEAT loop UNTIL [STOP_FLAG_T]			(1)
		loop			
2		CPAT?CP_M	S_CONNECT		(2)
3		T!OFF_HOOK			(3)
4		CPAT?CP_M (STOP_FLAG_T:=TRUE)	S_DISCONNECT		(4)
5		T!HANG_UP			(5)

Detailed Comments : (1) The subtree that handles all message transfers at PTCT is called in a REPEAT statement. The initial value of STOP_FLAG_T is FALSE.
(2) A coordination message prompting PTCT to send a CONNECT message is received.
(3) PTCT is connecting by lifting the hand set
(4) A coordination message prompting PTCT to DISCONNECT the call is received.
(5) PTCT is disconnecting the call by hanging up the hand set

Test Step Dynamic Behaviour

Test Step Name : END_PTC1
Group : END_PTC/
Objective : Test step to terminate all actions at PTC1.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START TAC			
2		?DONE(PTC1) CANCEL TAC		R	(1)
3		?TIMEOUT TAC			no respon se
4		CPA1!CP_M START TWAIT	STOP_PTC		(2)
5		?DONE(PTC1) CANCEL TWAIT		R	(1)
6		?TIMEOUT TWAIT		R	no respon se

Detailed Comments : (1) All procedures at PTC1 have finished their activity.
(2) This coordination message indicates to PTC1 to terminate all actions.

Test Step Dynamic Behaviour

Test Step Name : END_PTCT
Group : END_PTC/
Objective : Test step to terminate all actions at PTCT.
Default :
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START TAC			
2		?DONE(PTCT) CANCEL TAC		R	(1)
3		?TIMEOUT TAC			no response
4		CPAT!CP_M START TWAIT	STOP_PTC		(2)
5		?DONE(PTCT) CANCEL TWAIT		R	(1)
6		?TIMEOUT TWAIT		R	no response

Detailed Comments : (1) All procedures at PTCT have finished their activity.
(2) This coordination message indicates to PTCT to terminate all actions.

Default Dynamic Behaviour

Default Name : MTCA_DEF(FL: INTEGER)
Group : MTCA_Defaults/
Objective : Default subtree for all test cases up to 1 B channel connection.
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0?DL_REL_IN		(I)	DL failure
2		+END_PTC_ACTIONS			(1)
3		L0?DL_EST_IN		(I)	DL reset
4		+release_call			(2)
5		+ignore_messages			(3)
6		RETURN			(4)
7		L0?OTHERWISE		(F)	(5)
8		+release_call			(2)
		ignore_messages			
9		L0?PDUr	Mr(IN_R((FL+1)MOD 2,CREF))		ignore
10		L0?PDUr	Mr(NO_R((FL+1)MOD 2,CREF))		ignore
11		L0?PDUr	Mr(SQ_R((FL+1)MOD 2,CREF))		ignore
12		L0?PDUr	Mr(GFP_R((FL+1)MOD 2,CREF))		ignore
		release_call			
13		L0!PDUs START TAC	Ms(RL_S(FL,CREF,16))		(6)
14	L1	L0?PDUr CANCEL TAC	Mr(RC_R((FL+1)MOD 2,CREF))		(7)
15		+END_PTC_ACTIONS			(1)
16		?TIMEOUT TAC		(F)	no response
17		+END_PTC_ACTIONS			(1)
18		+ignore_messages			(3)
19		GOTO L1			
20		L0?OTHERWISE		(F)	(5)
21		+END_PTC_ACTIONS			(1)
		END_PTC_ACTIONS			
22		[PTC_ACTIVATED]			(8)
23		START TAC			
24		?DONE(PTC1) CANCEL TAC		R	(9)
25		?TIMEOUT TAC			no response
26		CPA1!CP_M START TWAIT	STOP_PTC		(10)

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Default Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
27		?DONE(PTC1) CANCEL TWAIT		R	(9)
28		?TIMEOUT TWAIT		R	no response
29		[NOT PTC_ACTIVATED]			(11)
30		[PTCT_ACTIVATED]			(12)
31		START TAC			
32		?DONE(PTCT) CANCEL TAC		R	(13)
33		?TIMEOUT TAC			no response
34		CPAT!CP_M START TWAIT	STOP_PTC		(14)
35		?DONE(PTCT) CANCEL TWAIT		R	(13)
36		?TIMEOUT TWAIT		R	no response
37		[NOT PTCT_ACTIVATED]			(15)

Detailed Comments :
(1) Subtree to terminate all actions at the PTC(s).
(2) Subtree to release the call.
(3) Subtree to filter the receipt of certain messages.
(4) Return to the test body.
(5) An invalid event occurred.
(6) A valid RELEASE message with cause #16 is sent.
(7) A RELEASE COMPLETE message is received from the IUT.
(8) PTC1 has been activated in the test case (default value).
(9) All procedures at PTC1 have finished their activity.
(10) This coordination message indicates to PTC1 to terminate all actions.
(11) PTC1 has not been activated in the test case.
(12) PTCT has been activated in the test case.
(13) All procedures at PTCT have finished their activity.
(14) This coordination message indicates to PTCT to terminate all actions.
(15) PTCT has not been activated in the test case (default value).

Default Dynamic Behaviour

Default Name : MTCA_DEF_2B(FL: INTEGER)
Group : MTCA_Defaults/
Objective : Default subtree for all test cases using two call references.
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L0?DL_REL_IN		(I)	DL failure
2		+END_PTC_ACTIONS			(1)
3		L0?DL_EST_IN		(I)	DL reset
4		+release_calls			(2)
5		+ignore_messages			(3)
6		RETURN			(4)
7		L0?OTHERWISE		(F)	(5)
8		+release_calls			(2)
		ignore_messages			
9		L0?PDUr	Mr(IN_R((FL+1)MOD 2,CREF))		ignore
10		L0?PDUr	Mr(NO_R((FL+1)MOD 2,CREF))		ignore
11		L0?PDUr	Mr(SQ_R((FL+1)MOD 2,CREF))		ignore
12		L0?PDUr	Mr(GFP_R((FL+1)MOD 2,CREF))		ignore
13		L0?PDUr	Mr(IN_R((FL+1)MOD 2,CREF2))		ignore
14		L0?PDUr	Mr(NO_R((FL+1)MOD 2,CREF2))		ignore
15		L0?PDUr	Mr(SQ_R((FL+1)MOD 2,CREF2))		ignore
16		L0?PDUr	Mr(GFP_R((FL+1)MOD 2,CREF2))		ignore
		release_calls			
17		L0!PDUs START TAC	Ms(RL_S(FL,CREF,16))		(6)
18		L0!PDUs	Ms(RL_S(FL,CREF2,16))		(6)
19	L1	L0?PDUr	Mr(RC_R((FL+1)MOD 2,CREF))		(7)
20	L2	L0?PDUr CANCEL TAC	Mr(RC_R((FL+1)MOD 2,CREF2))		(7)
21		+END_PTC_ACTIONS			(1)
22		?TIMEOUT TAC			no response
23		+END_PTC_ACTIONS			(1)
24		+ignore_messages			(3)

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Default Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
25		GOTO L2			
26		L0?OTHERWISE		(F)	(5)
27		+END_PTC_ACTIONS			(1)
28		L0?PDUr	Mr(RC_R((FL+1)MOD 2,CREF2))		(7)
29	L3	L0?PDUr CANCEL TAC	Mr(RC_R((FL+1)MOD 2,CREF))		(7)
30		+END_PTC_ACTIONS			(1)
31		?TIMEOUT TAC			no response
32		+END_PTC_ACTIONS			(1)
33		+ignore_messages			(3)
34		GOTO L3			
35		L0?OTHERWISE		(F)	(5)
36		+END_PTC_ACTIONS			(1)
37		?TIMEOUT TAC			no response
38		+END_PTC_ACTIONS			(1)
39		+ignore_messages			(3)
40		GOTO L1			
41		L0?OTHERWISE		(F)	(5)
42		+END_PTC_ACTIONS			(1)
		END_PTC_ACTIONS			
43		START TAC			
44		?DONE(PTC1) CANCEL TAC		R	(8)
45		?TIMEOUT TAC			no response
46		CPA1!CP_M START TWAIT	STOP_PTC		(9)
47		?DONE(PTC1) CANCEL TWAIT		R	(8)
48		?TIMEOUT TWAIT		R	no response

Detailed Comments :
(1) Subtree to terminate all actions at the PTC(s).
(2) Subtree to release the call.
(3) Subtree to filter the receipt of certain messages.
(4) Return to the test body.
(5) An invalid event occurred.
(6) A valid RELEASE message with cause #16 is sent.
(7) A RELEASE COMPLETE message is received from the IUT.
(8) All procedures at PTC1 have finished their activity.
(9) This coordination message indicates to PTC1 to terminate all actions.

Default Dynamic Behaviour

Default Name : PTC1_DEF(FL: INTEGER)
Group : PTC_Defaults/
Objective : Default tree for PTC1.
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L1?DL_REL_IN (STOP_FLAG1 := TRUE)			DL failure
2		RETURN			(1)
3		L1?DL_EST_IN			DL reset
4		+release_call			(2)
5		L1?PDUr	Mr(ANY_MSG_R((FL+1)MOD 2,P1CREF))		(3)
6		RETURN			(4)
7		CPA1?CP_M	STOP_PTC		(5)
8		+release_call			(2)
9		L1?OTHERWISE			(6)
10		+release_call			(2)
		release_call			
11		L1!PDUs START TAC	Ms(RL_S(FL,P1CREF,1 6))		(7)
12		L1?PDUr (STOP_FLAG1 := TRUE) CANCEL TAC	Mr(RC_R((FL+1)MOD 2,P1CREF))		(8)
13		RETURN			(1)
14		?TIMEOUT TAC			no respon se
15		(STOP_FLAG1 := TRUE)			
16		RETURN			(1)
17		L1?OTHERWISE			(6)
18		(STOP_FLAG1 := TRUE)			
19		RETURN			(1)

Detailed Comments : (1) The test case variable STOP_FLAG1 is set to TRUE. After returning to the PTC test step all activity there terminates.
(2) Subtree to release the call.
(3) Dummy constraint to filter the receipt of any message.
(4) Return to the test body.
(5) A coordination message prompting PTC1 to stop its activity is received.
(6) An invalid event occurred.
(7) A valid RELEASE message with cause #16 is sent.
(8) A RELEASE COMPLETE message is received from the IUT.

Default Dynamic Behaviour

Default Name : PTC1_DEF_2B(FL: INTEGER)

Group : PTC_Defaults/

Objective : Default tree for PTC1 trees at lower level PCO when a two B−channels communication test is running

Comments : RESTART messages are dealt with in preamble to the Null call state

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L1?DL_REL_IN (STOP_FLAG1 := TRUE)			DL failure
2		RETURN			(1)
3		L1?DL_EST_IN			DL reset
4		+release_calls			(2)
5		L1?PDUr	Mr(ANY_MSG_R((FL+1)MOD 2,P1CREF))		(3)
6		RETURN			(4)
7		L1?PDUr	Mr(ANY_MSG_R((FL+1)MOD 2,P1CREF2))		(3)
8		RETURN			(4)
9		CPA1?CP_M	STOP_PTC		(5)
10		+release_calls			(2)
11		L1?OTHERWISE			(6)
12		+release_calls			(2)
		release_calls			
13		[TWO_CALLS]			(7)
14		L1!PDUs START TAC	Ms(RL_S(FL,P1CREF2, 16))		(9)
15		L1!PDUs	Ms(RL_S(FL,P1CREF,1 6))		(9)
16	L0	L1?PDUr	Mr(RC_R((FL+1)MOD 2,P1CREF2))		(10)
17	L1	L1?PDUr (STOP_FLAG1 := TRUE) CANCEL TAC	Mr(RC_R((FL+1)MOD 2,P1CREF))		(10)
18		RETURN			(1)
19		+others_evt			(11)
20		GOTO L1			
21		L1?PDUr	Mr(RC_R((FL+1)MOD 2,P1CREF))		(10)
22	L2	L1?PDUr (STOP_FLAG1 := TRUE) CANCEL TAC	Mr(RC_R((FL+1)MOD 2,P1CREF2))		(10)
23		RETURN			(1)
24		+others_evt			(11)
25		GOTO L2			
26		+others_evt			(11)
27		GOTO L0			
28		[NOT TWO_CALLS]			(8)

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Default Dynamic Behaviour					
Nr	**Label**	**Behaviour Description**	**Constraints Ref**	**Verdict**	**Comments**
29		L1!PDUs START TAC	Ms(RL_S(FL,P1CREF,16))		(9)
30	L3	L1?PDUr (STOP_FLAG1 := TRUE) CANCEL TAC	Mr(RC_R((FL+1)MOD 2,P1CREF))		(10)
31		RETURN			(1)
32		+others_evt			(11)
33		GOTO L3			
		others_evt			
34		?TIMEOUT TAC			no response
35		(STOP_FLAG1 := TRUE)			
36		RETURN			(1)
37		L1?PDUr	Mr(ANY_MSG_R((FL+1)MOD 2,P1CREF))		(3)
38		L1?PDUr	Mr(ANY_MSG_R((FL+1)MOD 2,P1CREF2))		(3)
39		L1?OTHERWISE			(6)
40		(STOP_FLAG1 := TRUE)			
41		RETURN			(1)

Detailed Comments :
(1) The test case variable STOP_FLAG1 is set to TRUE. After returning to the PTC test step all activity there terminates.
(2) Subtree to release the call.
(3) Dummy constraint to filter the receipt of any message.
(4) Return to the test body.
(5) A coordination message prompting PTC1 to stop its activity is received.
(6) An invalid event occurred.
(7) Two calls are exist.
(8) Only one call is exist.
(9) A valid RELEASE message with cause #16 is sent.
(10) A RELEASE COMPLETE message is received from the IUT.
(11) Subtree to handel other events.

Default Dynamic Behaviour

Default Name : PTCT_DEF
Group : PTC_Defaults/
Objective : Standard Default tree for PTCT trees
Comments :

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CPAT?CP_M (STOP_FLAG_T:=TRUE)	STOP_PTC		(1)
2		T!HANG_UP			(2)
3		RETURN			(3)
4		T?HANG_UP			(2)
5		(STOP_FLAG_T:=TRUE)			
6		RETURN			(3)
7		T?OTHERWISE			(4)
8		T!HANG_UP (STOP_FLAG_T:=TRUE)			(2)
9		RETURN			(3)

Detailed Comments : (1) A coordination message prompting PTCT to stop its activity is received.
(2) Hang up the hand−set
(3) Return to the test body.
(4) An invalid event occurred.