



PICS Proforma for UNI 3.1 Signalling (User Side)

AF-TEST-0097.000

April 1998

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1. Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options that have been implemented. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

1.1 Scope

This document provides the PICS proforma for the UNI Signalling Specification 3.1 - user side, as specified in Section 5 of the ATM User-Network Interface Specification [3] in compliance with the relevant requirements, and in accordance with the relevant guidelines, given in ISO/IEC 9646-2[2]. In most cases, statements contained in notes in the specification, which were intended as information, are not included in the PICS.

It does not cover Section 5.8 on Address Registration or network side capabilities and options. It also does not include Section 5.9 on the Signalling AAL; PICS for this section are covered in separate documents:

- AAL Type 5 Common Part PICS: ATM Forum/af-test-0042 [4]
- SSCOP PICS: ITU Recommendation Q.2110 [5]
- SSCF at UNI PICS: ITU Recommendation Q.2130 [6]

1.2 Normative References

- ISO/IEC 9646-1:1994, Information technology Open systems interconnection Conformance testing methodology and framework - Part 1: General Concepts. (See also ITU Recommendation X.290(1995)).
- ISO/IEC 9646-2:1994, Information technology Open systems interconnection Conformance testing methodology and interconnection - Part 2: Abstract test suite specification. (See also ITU Recommendation X.291(1995)).
- [3] ATM Forum: ATM User-Network Interface Specification, Version 3.1, September 1994.
- [4] ATM Forum af-test-0042.000, PICS Proforma for the AAL Type 5, August, 1995.
- [5] ITU-T Recommendation Q.2110, B-ISDN ATM Adaptation Layer Service Specific Connection Oriented Protocol (SSCOP).
- [6] ITU-T Recommendation Q.2130, B-ISDN Signalling ATM Adaptation Layer Service Specific Coordination Function (SSCF) for support of signalling at the user-to-network interface (SSCF at UNI).

1.3 Definitions

This document uses the following terms defined in ISO/IEC 9646-1[1]:

- A Protocol Implementation Conformance Statement (PICS) is a statement made by the supplier of an implementation or system, stating which capabilities have been implemented for a given protocol.
- A PICS proforma is a document, in the form of a questionnaire, designed by the protocol specifier or conformance test suite specifier, which when completed for an implementation or system becomes the PICS.

1.4 Acronyms

- I.E. Information Element
- IUT Implementation under test
- M Mandatory requirements (these are to be observed in all cases)
- N/A Not supported, not applicable, or the conditions for status are not met.
- O Optional (may be selected to suit the implementation, provided that any requirements applicable to the options are observed)
- O.n Optional, but support is required for either at least one or only one of the options in the group labelled with the same numeral "n".
- PICS Protocol Implementation Conformance Statement
- PMP Point-to-Multipoint
- SUT System under test

1.5 Conformance

The supplier of a protocol implementation which is claimed to conform to the ATM Forum UNI Specification Signaling interface is required to complete a copy of the PICS proforma provided in this document and is required to provide the information necessary to identify both the supplier and the implementation.

2. Identification of the Implementation

Implementation Under Test (IUT) Identification

IUT Name: _____

IUT Version: _____

System Under Test (SUT) Identification

SUT Name: _____

Hardware Configuration: _____

Operating System: _____

Product Supplier
Name:
Address:
Telephone Number:
Facsimile Number:
Email Address:
Additional Information:
Client
Name:
Address:
Facsimile Number:
Email Address:
Additional Information:
PICS Contact Person
Name:
Address:
Facsimile Number:
Email Address:
Additional Information:

PICS/System Conformance Statement

Provide the relationship of the PICS with the System Conformance Statement for the system:

Identification of the protocol

This PICS proforma applies to the following:

* ATM Forum User-Network Specification Version 3.1 - User side, September 1994

3. PICS Proforma

3.1 Global statement of conformance

The implementation described in this PICS meets all of the mandatory requirements of the reference protocol.

[] YES [] NO

Note: Answering "No" indicates non-conformance to the specified protocol. Non-supported mandatory capabilities are to be identified in the following tables, with an explanation by the implementor explaining why the implementation is non-conforming.

3.2 Instructions for Completing the PICS Proforma

The PICS Proforma is a fixed-format questionnaire. Answers to the questionnaire should be provided in the rightmost columns, either by simply indicating a restricted choice (such as Yes or No), or by entering a value or a set of range of values.

A supplier may also provide additional information, categorized as exceptional or supplementary information. These additional information should be provided as items labeled X.<i> for exceptional information, or S.<i> for supplemental information, respectively, for cross reference purposes, where <i> is any unambiguous identification for the item. The exception and supplementary information are not mandatory and the PICS is complete without such information. The presence of optional supplementary or exception information should not affect test execution, and will in no way affect interoperability verification. The column labeled 'Reference' gives a pointer to sections of the protocol specification for which the PICS Proforma is being written.

PICS Proforma for UNI 3.1 Signalling (User Side) 3.3 Roles

Item	Role	Status	Support				
R1	user is an ATM endpoint	0.1	Yes_No_				
R2	user is not an ATM endpoint	0.1	Yes_No_				
	Comments: O.1 = mandatory to support exactly one of these roles.						

Roles are used as Conditions for Status in the PICS tables.

3.4 Major Capabilities (MC)

Item	Does the Implementation	Statu s	Condition s for status	Reference	Support
MC 1	support outgoing calls?	0.1		5.5.1	YesNo
MC 1.1	support point-to-point calls?	М		5.5	YesNo
MC 1.2	support transit network selection?	0	MC 1	5.5.1.9 Annex D	YesNo
MC 1.3	support end-to-end compatibility parameter identification?	0		5.1.2.13	YesNo
MC 2	support incoming calls?	0.1		5.5.2	YesNo
MC 3	support user-initiated call clearing?	М		5.5.4.3	YesNo
MC 4	support call clearing initiated by the network?	М		5.5.4.4	YesNo
MC 5	support restart procedure?	М		5.5.5	YesNo
MC 6.1	support response to STATUS ENQUIRY message?	М		5.5.6.11	YesNo
MC 6.2	support sending of STATUS ENQUIRY message?	М		5.5.6.11	YesNo
MC 7	support symmetric call operation?	0		5.5.1.10	YesNo
MC 8	For point-to-multipoint connections, does the IUT support return bandwidth of zero?	М		5.1.2.3	YesNo
MC 9.1	support for Class X ATM Service?	O.2		5.1.2.6	YesNo
MC 9.2	support for Class A ATM Service?	O.2		5.1.2.6	YesNo
MC 9.3	support for Class C ATM Service?	O.2		5.1.2.6	YesNo
MC 10	support for a single virtual channel, VPI=0 and VCI =5 for all signaling?	М		5.1.2.9	YesNo
MC 11	support for Error Recovery?	М		5.1.2.10	YesNo
MC 12	support for Private and Public Addressing formats?	М		5.1.3 and Annex A	YesNo
	support point-to-multipoint procedures?	0		5.6	YesNo

O.1 = mandatory to support at least one of these features.

O.2 = mandatory to support at least one service.

3.5 Subsidiary Capabilities (SC)

Item	Does the Implementation	Statu	Conditio	Referen	Support
		s	n s	c e	
C 11			for status		
SC 1	ocedures establish an assured mode signalling AAL	М		5.5.1	Vac No
SCI	connection before invoking	IVI		5.5.1	YesNo
	call/connection procedures?				
SC 2	request a call/connection by sending a	М		5.5.1.1,	
502	SETUP message containing a call reference	101		5.5.1.2.1	YesNo
	(according to 5.4.3) and not containing				
	Connection identifier, start T303 and enter				
	the Call Initiated state?				
SC 3	send the called party address information	М		5.5.1.1	YesNo
	in the Called party number information				
	element in the SETUP message?				
SC 4	include ATM Traffic descriptor, Broadband	М	MC 1	5.5.1.1	YesNo
	bearer capability, and Quality of service				
	parameter information elements in the				
SC 5	SETUP message?	0		5.5.1.1	V N
SC 5	include Broadband sending complete I.E. in the SETUP message?	0		5.5.1.1	YesNo
SC 6	retransmit SETUP on expiry of T303?	0		5.5.1.1	YesNo
SC 0	internally clear the call on final expiry of	M		5.5.1.1	Yes_No
SC /	T303?	101		5.5.1.1	105_100
SC 8	first respond to a valid SETUP with CALL	М		5.5.2.5.1.	YesNo
	PROCEEDING, RELEASE COMPLETE, or			1	
	CONNECT?				
SC 9	accept an incoming call by sending a	Μ		5.5.2.6	YesNo
	CONNECT, then start T313 and enter the				
	Connect Request state?				
SC 10	stop T313 and enter the Active state on	М		5.5.2.7	YesNo
	receiving a CONNECT ACKNOWLEDGE				
	message while in the Connect Request state?				
SC 11	initiate clearing with (cause #102) on	М		5.5.2.7	YesNo
SC II	expiry of T313?	141		5.5.2.1	103_100
SC 12	stop T303, start T310, and enter the	М		5.5.1.5	YesNo
	Outgoing Call Proceeding state on				
	receiving a CALL PROCEEDING message				
	while in the Call Initiated state?				
SC 13	initiate clearing procedures (with cause	М		5.5.1.5	YesNo
	#102) on expiry of T310 if no CONNECT				
	or RELEASE message was received while				
SC 14	in the Outgoing Call Proceeding state?	м		5517	Vac N-
SC 14	stop T303 or T310, send a CONNECT ACKNOWLEDGE message, and enter the	М		5.5.1.7	YesNo
	Active state on receiving a CONNECT				
	message while in the Outgoing Call				
	Proceeding or Call Initiated state?				
SC 15	on receiving a SETUP message while in	М		5.5.2.3	YesNo
	the Null state, either accept the indicated				_

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Item	Does the Implementation	Statu	Conditio	Referen	Support
		s	n s	c e	
			for status		
	VPCI/VCI or reject the call with RELEASE COMPLETE?				
Call cl	earing				
SC 16	reject a call in response to a SETUP	0		5.5.4.2	YesNo
	message by sending a RELEASE				
	COMPLETE message, if this is the first				
SC 17	response to the SETUP?	м		5.5.4.3	V N
SC 17	with the exception in 5.5.4.2 and 5.5.6, initiate clearing by sending a RELEASE	М		5.5.4.5	YesNo
	message, start T308, disconnect the				
	virtual channel, and enter the Release				
	Request state?				
SC 18	stop T308, release the virtual call and	М		5.5.4.3	YesNo
	call reference, and enter the Null state on				
	receiving a RELEASE COMPLETE				
	message while in the Release Request				
SC 19	state?	М		5.5.4.3	YesNo
SC 19	retransmit a RELEASE message (with the same cause number as in the first	101		5.5.4.5	1 esivo
	RELEASE sent) and restart T308 on the				
	first expiry of T308?				
SC 20	include a second Cause I.E. (with cause	0		5.5.4.3	YesNo
	#102) in addition to actions in SC 19?				
SC 21	release the call reference and enter the	М		5.5.4.3	YesNo
	Null state on the second expiry of				
	T308?				
SC 22	initiate normal call/connection clearing	М		5.5.4.3	YesNo
	using cause #16 in the first clearing message?				
SC 23	send a RELEASE COMPLETE	М		5.5.4.4,	Yes_No_
	message, release the call reference and			5.5.4.5	
	virtual channel, and enter the Null state				
	on receiving a RELEASE message				
	while in any state other than the Release				
80.24	request state?	м		5515	Vac N-
SC 24	release the call reference and virtual channel, and enter the Null state on	М		5.5.4.5	YesNo
	receiving a RELEASE message while in				
	the Release request state?				
Handlin	g error conditions			•	•
SC 25	handle errors described in sections 5.5.6.1	М		5.5.6	YesNo
	through $5.5.6.8$ in the order of precedence				
SC 26	listed ? follow the explicit instruction in the	0.1		5.4.4.1	YesNo
SC 20	Action Indicator field for message errors	0.1		5.4.4.1 Note 1	1 esivo
	when the Flag field is set to one?				
SC 27	ignore the contented of the Action	0.1		5.4.4.1	YesNo
	Indicator field for message errors when the			Note 1	
Comercia	Flag field is set to one?				<u> </u>
General SC 28	errors ignore a received message with protocol	М		5.5.6.1	YesNo
SC 20	discrimination error ?	171		5.5.0.1	105_110

Item	Does the Implementation	Statu	Conditio	Referen	Support
		s	ns	ce	~~
			for status		
SC 29	ignore a received message too short to	М		5.5.6.2	YesNo
	contain a complete Message length				
<u>a</u> u	information element ?				
	ference errors				
SC 30	ignore a received message with call reference bits 5 to 8 in octet 1 not equal to	М		5.5.6.3.1	YesNo
	'0000'?				
SC 31	ignore a received message if the call	М		5.5.6.3.1	YesNo
	reference information element octet 1,				
	bits 1 through 4 indicate a length other				
	than 3 octets?				
SC 32	clear the call on receiving any message	М		5.5.6.3.2	YesNo
	other than SETUP, RELEASE COMPLETE,			а	
	STATUS, and STATUS ENQUIRY with a call reference which is not active by				
	sending RELEASE COMPLETE with cause				
	#81?				
SC 33	take no action on receiving a RELEASE	М		5.5.6.3.2	YesNo
	COMPLETE message with call reference			b	
	not recognized as relating to an active call				
00.24	or to a call in progress?	м		55622	XZ NI
SC 34	ignore a received SETUP message with a call reference which is not recognized as	М		5.5.6.3.2 c	YesNo
	relating to an active call or to a call in			C	
	progress, and with a call reference flag				
	incorrectly set to '1'?				
SC 35	ignore a received SETUP message with a	М		5.5.6.3.2	YesNo
	call reference which is recognized as			d	
	relating to an active call or to a call in progress?				
SC 36	transmit a STATUS message with global	М		5.5.6.3.2	YesNo
SC 30	call reference and with cause #81, on	101		e	105_100
	receiving any message other than				
	RESTART, RESTART ACKNOWLEDGE or				
	STATUS with global call reference?				
SC 37	implement the procedures in section	М		5.5.6.3.2f	YesNo
	5.5.6.12 on receiving a STATUS message with call reference which is not recognized				
	as relating to an active call or to a call in				
	progress?				
SC 38	implement the procedures in section	М		5.5.6.3.2	YesNo
	5.5.6.11 on receiving a STATUS			g	
	ENQUIRY message which is not				
	recognized as relating to an active call or				
Maccase	to a call in progress?	longth			<u>I</u>
Message SC 39	Type, Message sequence, Message transmit a STATUS message with cause	length M	NOT SC 26	5.5.6.4	YesNo
50 37	#97 or #101 on receipt of an unexpected	141	1101 SC 20	5.5.0.4	105_110
	message other than RELEASE, RELEASE				
	COMPLETE or of an unrecognized message				
	in any other state than the Null state?				
SC 40	clear the call on receipt of an unexpected	М		5.5.6.4	YesNo
ac ti	RELEASE COMPLETE message ?				
SC 41	clear the call and send a RELEASE	М		5.5.6.4	Yes_No

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Item	Does the Implementation	Statu	Conditio	Referen	Support
		s	n s for status	c e	
	COMPLETE message on receipt of an unexpected RELEASE?				
SC 42	handle message as much as possible if message length in the Message length information element is inconsistent with length of message received ?	М		5.5.6.5	YesNo
General			•		•
SC 43	process variable length information elements regardless of their order in the message ?	М		5.5.6.6.1	YesNo
SC 44	send the first four information elements in the order specified in section 5.4.1?	М		5.5.6.6.1	YesNo
SC 45	for not permitted repeated I.E.s, only process the contents of the I.E.s appearing first (and ignore all subsequent repetitions ?	М		5.5.6.6.2	YesNo
SC 46	handle permitted repetitions (up to a limit) of an information element ?	М		5.5.6.6.2	YesNo
SC 47	process unknown coding standard as an IE with a content error ?	М		5.5.6.6.3	YesNo
SC 48	follow the explicit instruction in the Action Indicator field for IE errors when the Flag field is set to one?	0.2		5.4.5.1 Note 3	YesNo
SC 49	ignore the contented of the Action Indicator field for IE errors when the Flag field is set to one?	0.2		5.4.5.1 Note 3	YesNo
Mandat	ory Information elements errors		•		
SC 50	take no action, except for the sending of a STATUS message with cause #96, on receipt of a message other than SETUP, RELEASE, or RELEASE COMPLETE, with mandatory information elements missing ?	М		5.5.6.7.1	YesNo
SC 51	take no action, except for the sending of a STATUS message with cause #100, on receipt of a message other than SETUP, RELEASE, or RELEASE COMPLETE, with mandatory information elements with invalid content ?	М	NOT SC 48	5.5.6.7.2	YesNo
SC 52	return a RELEASE COMPLETE message with cause #96, on receipt of a SETUP or RELEASE message with one or more mandatory information elements missing?	М		5.5.6.7.1	YesNo
SC 53	return a RELEASE COMPLETE message with cause #100, on receipt of a SETUP or RELEASE message with one or more mandatory information elements with invalid content?	М		5.5.6.7.2	YesNo
SC 54	take action, as if a RELEASE message with cause #31 is received, on receipt of a RELEASE message with mandatory information element missing or with mandatory information element content error?	М		5.5.6.7	YesNo
SC 55	handle a RELEASE COMPLETE message as	М		5.5.6.7	YesNo

Item	Does the Implementation	Statu	Conditio	Referen	Support
		s	ns	c e	
			for status		
	received with cause #31 even if it has				
	mandatory information elements missing				
00.50	or with invalid content?	м		55670	XZ XI
SC 56	treat mandatory information elements with length exceeding the maximum as with	М		5.5.6.7.2	YesNo
	invalid content error ?				
SC 57	pass on to another entity, the cause	0	NOT SC 48	5.5.6.7.2	Yes_No_
50 57	values, location codes, and diagnostics	U		5.5.6.7.2	105_110
	that are not understood by the user				
	equipment?				
Non-ma	ndatory information element errors		•		
SC 58	take action on message and those	М	R1 AND	5.5.6.8.1	YesNo
	information elements which are		NOT SC 48		
	recognized and have valid content on				
	receipt of a message with one or more unrecognized information elements?				
SC 59	transmit a STATUS message with cause	0	NOT SC 48	5.5.6.8.1	Yes_No_
50 57	#99 on receipt of a message other than	0	1101 50 40	5.5.0.0.1	103_100
	RELEASE or RELEASE COMPLETE, with				
	unrecognized non-mandatory information				
	elements?				
SC 60	transmit a RELEASE COMPLETE message	М	NOT SC 48	5.5.6.8.1	YesNo
	with cause #99 on receipt of a RELEASE			а	
	message with unrecognized non-				
00.01	mandatory information elements?	м	NOT CC 49	55691	XZ XI
SC 61	take no action on the unrecognized information elements on receipt of a	М	NOT SC 48	5.5.6.8.1 b	YesNo
	RELEASE COMPLETE message with			U	
	unrecognized non-mandatory information				
	elements?				
SC 62	include diagnostic(s) for cause #99?	0	NOT SC 48	5.5.6.8.1	YesNo
SC 63	transmit a STATUS message with cause	0	NOT SC 48	5.5.6.8.2	YesNo
	#100 on receipt of a non-mandatory				
	information element with invalid				
00.44	contents?	2.6	NOT CO 40	55600	37 37
SC 64	take action on the message and those information elements which are	М	NOT SC 48	5.5.6.8.2	YesNo
	recognized and have valid content on				
	receipt of a message with one or more non-				
	mandatory information elements with				
	invalid content?				
SC 65	transmit a STATUS message with cause	0	NOT SC 48	5.5.6.8.2	YesNo
	#43 on receipt of a non-mandatory				
	information element with length				
	exceeding the maximum length and the I.E.s are either B-LLI, AAL, B-HLI, Called				
	Subaddress or Calling Subaddress ?				
SC 66	take action on the message and those	М	NOT SC 48	5.5.6.8.2	YesNo
2000	information elements which are		1.01.50.10	5.5.5.0.2	
	recognized and have valid content on				
	receipt of a message with one or more non-				
	mandatory information elements with				
	length exceeding the maximum?				
SC 67	transmit a STATUS message with cause	0	NOT SC 48	5.5.6.8.2	YesNo

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Item	Does the Implementation	Statu	Conditio	Referen	Support
		S	ns for status	се	
	#43 on receipt of a message with one or		101 status		
	more non-mandatory access I.E.s with				
	length exceeding the maximum?				
SC 68	transmit a STATUS message with cause	0	NOT SC 48	5.5.6.8.2	YesNo
	#100 on receipt of a message with one or				
	more non-mandatory information				
	elements (other than access information elements) with length exceeding the				
	maximum?				
SC 69	send STATUS with cause #100 and pass on	0	NOT SC 48	5.5.6.8.2	YesNo
	to another entity, the cause values,	-			
	location codes, and diagnostics that are				
	not understood by the user equipment on				
	receipt of cause values, location codes, and				
	diagnostics which are not understood by				
SC 70	the user equipment?	м		55692	Voc N-
SC /0	either treat the information element as an unrecognized information element and	М		5.5.6.8.3	YesNo
	follow the procedures defined in section				
	5.5.6.8.1 or process the unexpected				
	recognized information elements when the				
	procedure for processing the information				
	element is independent of the message in				
	which it is received on receipt of a				
	message with a recognized information				
	element that is not defined to be contained in that message?				
Signalli	ng AAL Reset				
SC 71	maintain calls in the active and	М		5.5.6.9b,	YesNo
	establishment states ?			5.5.6.9c	
SC 72	invoke status enquiry procedures for calls	М		5.5.6.9c	YesNo
	in the active state according to section				
SC 72	5.5.6.11?	0		5560h	Vac No
SC 73	invoke status enquiry procedure for calls in the establishment phase?	0		5.5.6.9b	YesNo
SC 74	take no action for calls in the clearing	М		5.5.6.9a	Yes No
50 / 1	states ?			5.5.0. <i>j</i> u	105_110
Signalli	ng AAL Failure			-	
SC 75	clear any call not in the active state?	М		5.5.6.10a	YesNo
SC 76	start timer T309 if any calls are in the	М		5.5.6.10b	YesNo
50 70	active state and if the timer is not already	171		5.5.0.100	105_110
	running?				
SC 77	request layer 2 re-establishment?	М		5.5.6.10	YesNo
SC 79	portorm Status Enguiry pro-	м		55610	Voc No
SC 78	perform Status Enquiry procedure for active calls when layer 2 is re-established ?	М		5.5.6.10	YesNo
SC 79	stop timer T309 when receiving indication	М		5.5.6.10	YesNo
	that the layer 2 connection is re-				
0.0.00	established ?	M		55610	X N
SC 80	clear the connection with cause #27 if layer 2 fails to be re-established ?	М		5.5.6.10	YesNo
Statue	Enquiry procedure				1
status 1					
SC 81	have only one STATUS ENQUIRY	М		5.5.6.11	YesNo

Item	Does the Implementation	Statu s	Conditio ns	Referen ce	Support
		~	for status		
	T322 is active?				
SC 82	start T322 on sending a STATUS ENQUIRY message?	М		5.5.6.11	YesNo
SC 83	stop T322 and continue clearing if a clearing message is received before T322 expires?	М		5.5.6.11	YesNo
SC 84	retransmit STATUS ENQUIRY message on expiry of T322 a number of times up to a maximum retransmission limit?	0		5.5.6.11	YesNo
SC 85	stop T322 if a STATUS message is received containing cause #30?	М		5.5.6.11	YesNo
SC 86	clear the call with cause #41 if the maximum retransmission limit is reached on expiry of T322?	М		5.5.6.11	YesNo
SC 87	send a STATUS message with cause #30 and reporting the current call state on receipt of a STATUS ENQUIRY message ?	М		5.5.6.11	YesNo
Status	Procedures			1	
SC 88	clear the call by sending the appropriate clearing message with cause #101 on receipt of a STATUS message reporting an incompatible state?	0.3		5.5.6.12	YesNo
SC 89	take other actions (implementation option) which attempt to recover from a mismatch on receipt of a STATUS message reporting an incompatible state?	0.3		5.5.6.12	YesNo
SC 90	send a RELEASE COMPLETE message with cause #101 (and remain in the Null state) on receipt of a STATUS message indicating any call state except the Null state, which is received in the Null state?	М		5.5.6.12	YesNo
SC 91	take no action on receipt of a STATUS message indicating any call state except the Null state, which is received in the Release Request or Release Indication state?	М		5.5.6.12	YesNo
SC 92	release all resources and move to the Null state on receipt of a STATUS message indicating the Null state, which is received in any state except the Null state?	М		5.5.6.12	YesNo
SC 93	take no action other than to discard the message on receipt of a STATUS message indicating the Null state, which is received in the Null state?	М		5.5.6.12	YesNo
SC 94	clear the call with the appropriate procedure in section 5.5.4 using the cause in the received STATUS message on receipt of a STATUS message with compatible call state but with cause #96, #97, #99, #100, or #101, if other procedures are not defined?	O.4		5.5.6.12	YesNo
SC 95	take action which is an implementation option on receipt of a STATUS message	O.4		5.5.6.12	YesNo

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Item	Does the Implementation	Statu	Conditio	Referen	Support
	L	s	ns for status	c e	
	with compatible call state but with cause #96, #97, #99, #100, or #101?				
SC 96	inform layer management and take no further action on receipt of a STATUS message specifying the global call reference and reporting an incompatible state in the Restart Request or Restart	М		5.5.6.12	YesNo
SC 97	state? take no action on receipt of a STATUS message with global call reference, which is received in the Null state?	М		5.5.6.12	YesNo
Restart				I	
SC 98	return virtual channels to the idle condition by sending a RESTART message with Restart indicator I.E. indicating whether an indicated virtual channel or all virtual channels controlled by the layer 3 entity are to be restarted?	М		5.5.5.1	YesNo
SC 99	include the Connection identifier I.E. in the RESTART message to indicate which virtual channel is to be returned to the idle condition when the Restart indicator I.E. is coded as "indicated virtual channel"?	М		5.5.5.1	YesNo
SC 100	not include the Connection identifier I.E. in the RESTART message when the Restart indicator I.E. is coded as "all virtual channels controlled by the layer 3 entity which sends the RESTART message"?	М		5.5.5.1	YesNo
SC 101	start timer T316 and wait for a RESTART ACKNOWLEDGE message after sending the RESTART message?	М		5.5.5.1	Yes_No_
SC 102	not send further RESTART messages until a RESTART ACKNOWLEDGE is received or timer T316 expires?	М		5.5.5.1	YesNo
SC 103	stop timer T316, release the virtual channel and call reference value, and enter the Null state on receiving a RESTART ACKNOWLEDGE message?	М		5.5.5.1	Yes_No_
SC 104	resend one or more RESTART messages on expiry of timer T316 until a RESTART ACKNOWLEDGE message is received?	0		5.5.5.1	Yes_No_
SC 105	neither place nor accept calls over the virtual channel(s) under restart while timer T316 is running?	М		5.5.5.1	Yes_No_
SC 106	make no further restart attempts, enter the Null state (REST 0), indicate the restart failure to the maintenance entity and consider the virtual channel(s) to be in an out-of-service condition (until maintenance action has been taken) when the number of restart attempts limit (default is 2) is reached?	М		5.5.5.1	Yes_No_
SC 107	discard the RESTART ACKNOWLEDGE message on receiving a RESTART ACKNOWLEDGE message indicating a	М		5.5.5.1	Yes_No_

Item	Does the Implementation	Statu	Conditio	Referen	Support
		s	ns	ce	Support
			for status		
	different set of virtual channels from the set indicated in the RESTART message?				
	include the global call reference value (all	М		5.5.5.1	Yes_No_
	zeros) to which the Restart Request state is	101		5.5.5.1	105_100
	associated in RESTART and RESTART				
	ACKNOWLEDGE messages?		D 2		
	clear remote parties on indicated virtual channel using cause #41?	М	R2	5.5.5.1	Yes_No_
L	procedures: Receipt of RESTART				
	enter the Restart state associated to the	М		5.5.5.2	Yes_No_
	global call reference and start timer T317				
	on receiving a RESTART message?				
	after following SC 110, (then initiate the appropriate internal actions to return the	Μ		5.5.5.2	Yes_No_
	specified virtual channels to the idle				
	condition and) release all call references				
	associated with the specified virtual				
	channels? stop timer T317 after completing internal	М		5.5.5.2	Yes_No_
	clearing, send a RESTART	111		5.5.5.2	105_110_
	ACKNOWLEDGE to the originator of the				
	RESTART, and enter the Null state (REST 0)?				
	(send an indication to the maintenance	М		5.5.5.2	Yes_No_
	entity and) enter the Null state (REST 0)			0.0.0.2	105_110_
	upon expiry of timer T317 prior to				
	completion of internal clearing? clear remote parties on indicated virtual	М	R2	5550	Vec Ne
	channel using cause #41?	М	K 2	5.5.5.2	Yes_No_
SC 115	transmit a RESTART ACKNOWLEDGE	М		5.5.5.2	Yes_No_
	message to the originator of the RESTART				
	on receiving a RESTART, even if all the				
	specified virtual channels are in the idle condition?				
	clear all calls on all interfaces associated	М		5.5.5.2	Yes_No_
	with the signalling virtual channel on				
	receiving a RESTART with Restart indicator I.E. coded as "all virtual channels				
	controlled by the layer 3 entity which				
	sends the RESTART message"?				
	treat the Connection identifier I.E. as	М		5.5.5.2	Yes_No_
	described in 5.5.6.8.3 on receiving a RESTART with Restart indicator I.E. coded				
	as "all virtual channels controlled by the				
	layer 3 entity which sends the RESTART				
	message" and a Connection identifier I.E.				
	is included? follow procedures in 5.5.6.7.1 on	М		5.5.5.2	Yes_No_
	receiving a RESTART message with the	141		5.5.5.2	103_110_
	Restart indicator I.E. coded as "indicated				
	virtual channel" and the Connection identifier I.E. is not included?				
	follow procedures in 5.5.6.7.2 on	М		5.5.5.2	Yes_No_
	receiving a RESTART message with the	174		5.5.5.2	100_100_

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Item	Does the Implementation	Statu	Conditio	Referen	Support
		s	n s for status	c e	
	Restart indicator I.E. coded as "indicated virtual channel" and the Connection identifier I.E. contains an unrecognized VPCI?				
SC 120	take no action on the virtual channels, but send a RESTART ACKNOWLEDGE message containing the appropriate indications on receiving a RESTART message with permanent virtual connections established by management procedures implicitly specified (by specifying "all virtual channels controlled by the layer 3 entity which sends the RESTART")?	М		5.5.5.2	Yes_No_
SC 121	take no action on the virtual channel, but send a STATUS message with cause #82, indicating in the diagnostics field the virtual channel that could not be handled, on receiving a RESTART with permanent virtual connections established by management procedures or a reserved VPCI/VCI (e.g., the point-to-point signalling virtual channel) explicitly specified (by including a Connection identifier I.E. in the RESTART message)?	М		5.5.5.2	Yes_No_
SC 122	follow procedures in 5.5.6.4 on receiving a RESTART message while in the Restart state?	М		5.5.5.2	Yes_No_
O.2 = ma O.3 = ma	ts: indatory to support at least one of these proced indatory to support at least one of these proced indatory to support at least one of these proced indatory to support at least one of these proced	lures. lures.			

3.6 Point-to-Multipoint (PMP) Procedures

Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support
	procedures are supported, does the	s	s	ce	Support
	implementation		for status		
PMP 1	act as a Root (calling user) in point-to-	0.1	MC1	5.6	YesNo_
	multipoint calls?				-
PMP 2	act as a Leaf (called user) of a point-to-	0.1	MC2	5.6	YesNo_
1.011 2	multipoint call?	0.1	11102	5.0	
			e first party		
PMP 3	follow procedures of Q.2931 to set up the first	Μ		5.6.1.1	YesNo_
	party of a PMP call?				-
PMP 4	support link states for the call change	М		5.6.1.1	YesNo_
	according to call state changes in section 5.5?				
PMP 5	send SETUP with Endpoint Reference value $= 0$	М	PMP1	5.6.1.1	YesNo_
	for the 1 st party and with Broadband Bearer				-
	capability I.E. indicating point-to-multipoint in the user plane connection configuration				
	plane?				
Adding a		ing a pa	rty		
PMP 6	send an ADD PARTY message only if the link	М		5.6.1.2	YesNo_
	is in the Active link-state?				_
PMP 7	start timer T399 after sending ADD PARTY?	М		5.6.1.2	YesNo_
					-
PMP 8	send ADD PARTY with the same Call reference	М		5.6.1.2,	YesNo_
	value as specified in the initial setup of the call			5.4.8.1	
	to which the party is to be added and with				
	endpoint reference value as described in				
DMD 0	5.4.8.1?	М		5610	Vac Na
PMP 9	use the same connection identifier, QoS, Bearer Capability and ATM traffic descriptor	IVI		5.6.1.2	YesNo_
	for the new party as in the original call?				-
PMP 10	transmit one of the ADD PARTY messages as a	0		5.6.1.2	YesNo_
	SETUP message with a new call reference value				_
	and same I.E. values as the previous call, if a				
	RELEASE message is received for a call which				
	has one or more parties which have not progressed past the Add Party Initiated party-				
	state?				
PMP 11	after receiving the CONNECT message for the	М	PMP 10	5.6.1.2	YesNo_
	SETUP message in PMP 10, then retransmit				
	the remaining ADD PARTY messages (using				
	the new call reference value)?		NOT DUTY		
PMP 12	clear all the parties associated with the call on the link if the procedures in PMP 10 and PMP	М	NOT PMP 10	5.6.1.2	YesNo_
	the link if the procedures in PMP 10 and PMP 11 are not implemented?				-
Adding a		l Party	Connected	<u> </u>	I
PMP 13	enter the active party-state and stop timer	M		5.6.1.5	YesNo_
	T399 on receipt of the ADD PARTY				
	ACKNOWLEDGE message?				

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PICS Pr	oforma for UNI 3.1 Signalling (User	Side)		af-te	st-0097.00
Item	If point-to-multipoint (PMP) procedures are supported, does the implementation	Statu s	Condition s for status	Referen ce	Support
PMP 14	internally clear the party on expiry of T399?	М		5.6.1.5	YesNo_ _
		_			
	ty establishment at the destination inter				
PMP 15	for a party, when transmitting messages containing call reference and endpoint	М		5.6.2	YesNo_ -
	reference, use the same call reference and				
	endpoint reference values specified in the SETUP or ADD PARTY messages (delivered by				
	the network) in sending messages containing				
	those I.E.s?				
Add pa	rty establishment at the destination inter	face: ir	ncoming add	party requ	est
PMP 16	enter the Add Party Received party-state on	М		5.6.2.1	Yes_No_
	receipt of an ADD PARTY message?				_
	rty establishment at the destination interf	ace: Q	oS and Traff	'ic paramete	er
	procedures	м	D 2	5 6 0 4	V N
PMP 17	reject the Add Party request by returning an ADD PARTY REJECT message with cause #47	М	R2	5.6.2.4	YesNo_
	or #49 if unable to support the requested ATM				-
	traffic descriptor or QoS class?				
PMP 18	follow procedures in 5.6.2.5 if able to support	М		5.6.2.4	YesNo_
	the requested ATM traffic descriptor or QoS				_
	class?				
	arty establishment at the destination in		Call/Connect	ion confirm	nation:
	to ADD PARTY when user is an ATM e				
PMP 19	if the user wishes to accept the	М	PMP2 AND	5.6.2.5.1	YesNo_
	call/connection, respond with an ADD PARTY ACKNOWLEDGE message (and enter the		R1	.1	_
	Active party-state) on receipt of an ADD				
	PARTY message?				
PMP 20	reject an Add Party request by sending an ADD	М	R1	5.6.2.5.1	YesNo_
	PARTY REJECT message (and entering the			.1	_
	Null party-state)?				
PMP 21	reject the request by sending an ADD PARTY	Μ	PMP2 AND	5.6.2.5.1	Yes_No_
	REJECT message with cause #88, 17, 21, or 23		R1	.1	-
	when the user is incompatible, is busy, wishes to refuse the call, or rejects all incoming calls				
	that do not provide the calling party number,				
	respectively?				
Add pa	arty establishment at the destination in	terface:	Call/Connect	ion confirm	nation:
	to ADD PARTY when user is not an AT				
PMP 22	send an ADD PARTY ACKNOWLEDGE toward	М	PMP2 AND	5.6.2.5.1	YesNo_
	the calling user (Root) (and enter the Active		R2	.2	_
	party-state) upon receiving an indication that				
	the add has been accepted by the ATM				
Add	endpoint?			ion	
Add pa PMP 23	send an ADD PARTY ACKNOWLEDGE to	M	Call/Connect PMP2	5.6.2.6	Vac No
1 IVIF 23	indicate acceptance of an incoming add party	IVI	1° IVIF 2	5.0.2.0	YesNo_
	request (and enters the Active party-state)?				-
Party Cl	learing: Exception conditions	1		<u>.</u>	1
		<u>г</u>			¥7 - ¥7
PMP 24	use call clearing procedures in 5.5.4.2 in	М		5.6.3.2a	Yes_No
PMP 24	use call clearing procedures in 5.5.4.2 in response to a SETUP message (when the call is	М		5.6.3.2a	Yes_No_ _

Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support
	procedures are supported, does the	s	s	ce	
	implementation		for status		
PMP 25	reject an Add Party request by responding with	0		5.6.3.2b	Yes_No_
	an ADD PARTY REJECT (if no other response				_
	has previously been sent) in response to an				
	ADD PARTY message?				
PMP 26	drop a party using RELEASE or DROP PARTY	М		5.6.3.2	YesNo_
	and follow 5.5.4.3, 5.5.4.4, 5.6.3.3 and 5.6.3.4 except for the procedures in PMP 24				-
	and PMP 25?				
Party Cl	earing: Dropping a party initiated by the	ne user			
PMP 27	initiate dropping a party by sending a	М		5.6.3.3	YesNo_
	RELEASE message (if all other parties				
	belonging to the same call on the interface are				
	in the Null party-state, a Drop Party Initiated				
	party-state, or a Drop Party Received party-				
	state), and follow procedures in 5.5.4?				
PMP 28	initiate party clearing by first sending a DROP	М		5.6.3.3	YesNo_
	PARTY message when the party is in the				-
	Active or Add Party initiated party-states, and				
	there are other parties to the call on this				
	interface in the Add Party Initiated, Add Party				
	Received, or Active party-state, and then start timer T398 (and enter the Drop Party Initiated				
	party-state)?				
PMP 29	cancel timer T398, release the endpoint	М		5.6.3.3	YesNo_
1 1011 22	reference and return to the Null party-state on			5.0.5.5	105_100_
	receipt of the DROP PARTY ACKNOWLEDGE				-
	message?				
PMP 30	in addition to actions in PMP 29, send a	М		5.6.3.3	YesNo_
	RELEASE when all parties are in the Null (drop				_
	party received) party-state (receipt of a DROP				
	PARTY ACKNOWLEDGE message)?				
PMP 31	send a DROP PARTY ACKNOWLEDGE	М		5.6.3.3	YesNo_
	message (with cause number originally				-
	contained in the DROP PARTY message)				
	(and enter the Null party-state) if one or				
	more parties associated with the call are in				
	the Active, Add Party Initiated or Add Party				
	Received party-state on expiry of timer				
	T398?				
PMP 32	in addition to PMP31, indicate a second	0		5.6.3.3	YesNo_
	Cause information element #102 on expiry				-
	of timer T398?				
PMP 33	use implementation-dependent recovery	0		5.6.3.3	YesNo_
	procedures, such as initiating status enquiry				-
	procedures, to verify that the party has been				
	dropped on expiry of timer T398?				
PMP 34	send a RELEASE message (with the cause	М		5.6.3.3	YesNo_
	number originally contained in the DROP				_
	PARTY message) if all parties associated				
	with the call are in the Null, Drop Party				
	Received, or Drop Party Initiated party-state				
	on expiry of timer T398?				

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Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support
Item	procedures are supported, does the	statu	s	ce	Support
	implementation	5	for status		
PMP 35	on expiry of timer T398, in addition to	0		5.6.3.3	YesNo_
1 1 1 35	PMP34, indicate a second Cause	Ŭ		5.0.5.5	105_110_
	information element #102?				-
Party C		the ne	l twork		I
	learing: Dropping a party initiated by		LWOFK	5624	Vo- N
PMP 36	enter the Null party-state upon receipt of a	М		5.6.3.4	Yes_No_
	RELEASE message for parties in the Drop Party Initiated and Drop Party Received				-
	party-state?				
PMP 37		М	R2	5.6.3.4	YesNo_
PMP 57	clear towards the remote user upon receipt of	IVI	K2	3.0.3.4	resno_
	a RELEASE message (using the cause				-
	contained in the RELEASE message or cause #31 if no cause was included in the				
	RELEASE message) for parties in the Add				
	Party Received party-state and the Active party-state?				
PMP 38	reoffer parties on a new call reference upon	М	R2	5.6.3.4	YesNo_
FMF 30		IVI	K2	5.0.5.4	1 esN0_
	receipt of a RELEASE message for parties in the Add Party Initiated party-state?				-
Dontry C		the ne	tryouls Cloo	ning with	
Party C PARTY	learing: Dropping a party initiated by	the ne	twork - Clea	ring with	a DKOP
PART 1 PMP 39	message	М		5.6.3.4.1	Yes_No_
PMP 39	send a RELEASE message in response to a	IVI		5.6.5.4.1	resNo_
	DROP PARTY message if all other parties				-
	associated with the call are in the Null				
	party-state, Drop Party Initiated party-state, or Drop Party Received party-state?				
PMP 40		М		5.6.3.4.1	YesNo_
PMP 40	release the endpoint reference, send a DROP	IVI		5.0.5.4.1	resno_
	PARTY ACKNOWLEDGE message, and				-
	enter the Null party-state in response to a DROP PARTY message if any other parties				
	associated with the call are in the Active				
	party-state, Add Party Initiated party-state,				
	or Add Party Received party-state?				
Dorty C	learing: Clear collision				
PMP 41		М		5.6.3.5	YesNo_
1 WIF 41	stop timer T398, release the endpoint	101		5.0.5.5	1 CSINO_
	reference, send a DROP PARTY ACKNOWLEDGE message, and enter the				-
	Null party-state in response to a DROP				
	PARTY message received in the Drop Party				
	Initiated party-state, and while there are one				
	or more parties associated with the call in				
	the Active, Add Party Initiated or Add Party				
	Received party-state?				
PMP 42		М		5.6.3.5	YesNo_
1 1911 42	stop timer T398, release the endpoint reference, disconnect the bearer virtual	141		5.0.5.5	105_100_
	channel, and send a RELEASE message in				-
	_				
	response to a DROP PARTY message				
	received in the Drop Party Initiated party- state, and while all parties associated with				
	the call are in the Null party-state, Drop				
	Party Initiated party-state, or a Drop Party				
	Received party-state?				1

Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support
	procedures are supported, does the	S	s	c e	
	implementation		for status		
PMP 43	initiate link clearing procedures by returning	М		5.6.3.5	YesNo_
	a RELEASE message and following				_
	clearing procedures in 5.5.4 in the case of				
	receiving a crossed clearing message (i.e.,				
	DROP PARTY, DROP PARTY				
	ACKNOWLEDGE or ADD PARTY				
	REJECT) pertaining to the last two parties				
	on an interface?				
Restart	Procedure	-			
PMP 44	in addition to other user side procedures in	Μ		5.6.4	YesNo_
	section 5.5.5, set the party-state of all				-
	parties associated with the virtual channel to				
	Null when the virtual channel (connection)				
	is restarted?				
PMP 45	in addition to PMP 44, clear all parties	М		5.6.4	YesNo_
	associated with the virtual channel?				_
	g of error conditions: Call reference a	nd End	point Referei	nce errors	- Call
	e procedural errors	-	1	1	
PMP 46	send a RELEASE COMPLETE message	М		5.6.5.3.1	YesNo_
	with cause #81 and follow the procedures in				-
	5.5.4 specifying the call reference in the				
	received message on receipt of an ADD				
	PARTY, ADD PARTY ACKNOWLEDGE,				
	ADD PARTY REJECT, DROP PARTY,				
	or DROP PARTY ACKNOWLEDGE				
	message while in the Null link-state?				L
	g of error conditions: Call reference a		point Referen	nce errors	- Endpoint
	e error: Invalid endpoint reference for		1	5 6 5 9 9	XZ XX
PMP 47	send a STATUS message with cause #100	М		5.6.5.3.2.	YesNo_
	with no Endpoint reference information			1	-
	element and follow procedures in $5.5.6.7.2^{1}$				
	on receipt of a message with endpoint				
	reference information element not properly				
TT 114	formatted?				
	g of error conditions: Call reference a		point Referei	ice errors	- Endpoint
PMP 48	e error: Endpoint reference procedural	M	NOT SC 26	5.6.5.3.2.	V N-
PMP 48	send a DROP PARTY ACKNOWLEDGE	IVI	NOT SC 20	2a	Yes_No_
	message with cause #89 (and remain in the			Za	-
	Null party-state) on receiving any message				
	except SETUP, ADD PARTY, or DROP				
	PARTY ACKNOWLEDGE while in the				
DMD 40	NULL party-state?	м		56520	Vac N-
PMP 49	take no action on receiving a DROP	М		5.6.5.3.2. 2b	Yes_No_
	PARTY ACNOWLEDGE message while in			20	-
D) (D. 70	the Null party-state?				
PMP 50	send a STATUS message containing the	М		5.6.5.3.2.	YesNo_
	Active link-state value, the associated			2c	-

¹ Note: the reference in UNI 3.1 is to 5.5.7.7.2; the correct reference is 5.5.6.7.2.

PICS Proforma for UNI 3.1 Signalling (User Side)

Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support
	procedures are supported, does the	s	s	ce	Support
	implementation	5	for status	~~~	
	endpoint reference and endpoint state				
	information elements and values, and with				
	cause #101 on receiving an ADD PARTY				
	while not in the Null or Add Party Received				
	party-state?				
PMP 51		М		5.6.5.3.2.	Yes_No_
FINIF 31	ignore the ADD PARTY message on	IVI		2d	1 esivo_
	receiving an ADD PARTY message while			24	-
II an dlin a	in the Add Party Received party-state?				
	g of error conditions: Message type of				X 7 X
PMP 52	follow procedures specified in 5.5.6.4 on	М	NOT SC 26	5.6.5.4,	YesNo_
	receiving a message type or message			5.5.6.4	-
	sequence error?				
PMP 53	enter the Null party-state upon receipt of an	М		5.6.5.4,	YesNo_
	unexpected RELEASE COMPLETE			5.6.3.4	-
	message for parties in the Drop Party				
	Initiated and Drop Party Received party-				
	state?				
PMP 54	clear towards the remote user upon receipt of	М	R2	5.6.5.4,	YesNo_
	an unexpected RELEASE COMPLETE			5.6.3.4	-
	message (using the cause contained in the				
	RELEASE COMPLETE message or cause				
	#111 if no cause was included in the				
	RELEASE COMPLETE message) for				
	parties in the Add Party Received party-state				
	and the Active party-state?				
PMP 55	reoffer parties on a new call reference upon	М	R2	5.6.5.4,	YesNo_
	receipt of an unexpected RELEASE			5.6.3.4	-
	COMPLETE message for parties in the Add				
	Party Initiated party-state?				
PMP 56	release the endpoint reference, stop all	М		5.6.5.4	YesNo_
	timers, and enter the Null party-state on				-
	receiving an unexpected DROP PARTY				
	ACKNOWLEDGE?				
PMP 57	disconnect the bearer virtual channel and	М		5.6.5.4	YesNo_
	send a RELEASE message on receiving a				_
	DROP PARTY ACKNOWLEDGE if no				
	other parties remain in the Active, Add				
	Party Initiated or Add Party Received party-				
	state on the call at the interface?				
PMP 58	follow procedures in 5.5.6.4 on receiving an	М		5.6.5.4	YesNo_
	ADD PARTY, ADD PARTY				
	ACKNOWLEDGE, or DROP PARTY				
	ACKNOWLEDGE in any link-state other				
	than the Active link-state?				
Handling	g of error conditions: Message length	errors			
PMP 59	follow procedures in 5.5.6.5 on receiving a	M		5.6.5.5	YesNo_
	message with message length error for	171		5.0.5.5	105_110_
	adding or dropping parties in point-to-				-
	multipoint calls?				
	manipoint cans:	I	ement errors		

Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support
	procedures are supported, does the	s	S	ce	
	implementation		for status		
PMP 60	follow procedures in 5.5.6.6 on receiving a	М	NOT SC 48	5.6.5.6	YesNo_
	message with general information element				_
	error for adding or dropping parties in point-				
	to-multipoint calls?				
-	g of error conditions: Mandatory info tion element missing	ormation	element err	or - Mand	latory
PMP 61	send an ADD PARTY REJECT message	М	NOT SC 48	5.6.5.7.1	Yes_No_
	with cause #96 on receiving an ADD				_
	PARTY message which has one or more				
	mandatory information elements missing?				
PMP 62	send a RELEASE message (with cause #96)	М		5.6.5.7.1,	YesNo_
	in response to a DROP PARTY message			5.6.3	
	with Cause information element missing if				
	all other parties associated with the call are				
	in the Null party-state, Drop Party Initiated				
	party-state, or Drop Party Received party-				
	state?				
PMP 63	release the endpoint reference, send a DROP	М		5.6.5.7.1,	YesNo_
	PARTY ACKNOWLEDGE message with			5.6.3	_
	cause #96, and enter the Null party-state in				
	response to a DROP PARTY message with				
	Cause information element missing if any				
	other parties associated with the call are in				
	the Active party-state, Add Party Initiated				
	party-state, or Add Party Received party-				
	state?				
PMP 64	assume that the message was received with	М		5.6.5.7.1	YesNo_
	cause #31 on receiving a DROP PARTY				-
	ACKNOWLEDGE or ADD PARTY				
	REJECT message with a Cause I.E.				
77 11.	missing?				
	g of error conditions: Mandatory info ion element content error	ormation	i element err	or - Mand	latory
PMP 65	send ADD PARTY REJECT or RELEASE	М	NOT SC 48	5.6.5.7.2	YesNo_
	message, as appropriate, with cause #100 on				-
	receiving an ADD PARTY message with				
	one or more mandatory I.E.s with invalid				
	content?				
PMP 66	take action as if a DROP PARTY message	М		5.6.5.7.2	YesNo_
	with cause #31 was received (section 5.5.4),				-
	except that the DROP PARTY				
	ACKNOWLEDGE or RELEASE message				
	is sent with cause #100, on receiving a				
	DROP PARTY message with invalid				
	content of the Cause information element?				
PMP 67	assume that a DROP PARTY	М		5.6.5.7.2	YesNo_
	ACKNOWLEDGE message was received				-
	with cause #31 on receiving a DROP				
	PARTY ACKNOWLEDGE message with				
	invalid content of the Cause information				

PICS Proforma for UNI 3.1 Signalling (User Side)

	roforma for UNI 3.1 Signalling (User	1	1	af-test-0097.000		
Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support	
	procedures are supported, does the	s	S	c e		
	implementation	<u> </u>	for status			
	element?					
PMP 68	treat messages with a mandatory	М		5.6.5.7.2	YesNo_	
	information element with a length exceeding				-	
	the maximum length (section 5.4) as a					
	mandatory information element with content					
	error?					
Handling		y infori	nation eleme	nt error -		
2	nized information element	М	NOT SC 49	5 (5 9 1	V., N.	
PMP 69	take action on the message and those	IVI	NOT SC 48	5.6.5.8.1	YesNo_	
	information elements which are recognized				-	
	and have valid content on receiving a					
	message with one or more non-mandatory					
PMP 70	unrecognized information elements?	0	NOT SC 48	5.6.5.8.1	V N-	
PMP /0	send a STATUS message which indicates	0	NOT SC 48	5.6.5.8.1	YesNo_	
	the link-state and endpoint reference state of				-	
	the receiver after taking action on the					
	message and which contains one cause I.E. with cause #99 on receiving an ADD					
	e					
	PARTY, ADD PARTY ACKNOWLEDGE,					
	or ADD PARTY REJECT message with one or more non-mandatory unrecognized					
	I.E.s?					
PMP 71	include the diagnostics field in the STATUS	0	NOT SC 48	5.6.5.8.1	YesNo_	
1 1011 / 1	message sent in PMP 70?	0	NOT 5C 40	5.0.5.8.1	105100_	
	message sent in r wir 70:				-	
PMP 72	include an I.E. identifier for each	М	PMP 71 AND	5.6.5.8.1	YesNo_	
	unrecognized I.E. (subject to the length		NOT SC 48		_	
	constraint of the Cause I.E. size) in the					
	diagnostics field, if present, in the STATUS					
	message sent in PMP 70?					
PMP 73	send a DROP PARTY ACKNOWLEDGE	М	NOT SC 48	5.6.5.8.1a	YesNo_	
	or RELEASE message with cause #99 (and				_	
	the Cause I.E. diagnostic field, if present,					
	containing the I.E. identifier for each					
	unrecognized I.E.) on receiving a DROP					
	PARTY message with one or more non-					
	mandatory unrecognized information					
DI CE E I	elements?		NOT COL		.	
PMP 74	take no action on the unrecognized	М	NOT SC 48	5.6.5.8.1	YesNo_	
	information on receiving a DROP PARTY			b	-	
	ACKNOWLEDGE message with one or					
	more non-mandatory unrecognized					
TT	information elements?					
	g of error conditions: Signalling AAL		l	5 (5 0	V N	
PMP 75	take no action for parties in the clearing	М		5.6.5.9a	YesNo_	
	phase (party-states Drop Party Initiated and				-	
	Drop Party Received) when an indication of					
	a Signalling AAL reset is received from the					
	Q.SAAL layer [by means of AAL-					
DMD 74	ESTABLISH-INDICATION primitive]?	M		5 6 5 01	XZ XI	
PMP 76	maintain parties in the establishment	М		5.6.5.9b	YesNo_	

Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support
	procedures are supported, does the	s	S	c e	
	implementation		for status		
	phase(party-states Add Party Initiated and				_
	Add Party Received) when an indication of a				
	Signalling AAL reset is received from the				
	Q.SAAL layer [by means of AAL-				
	ESTABLISH-INDICATION primitive]?				
PMP 77	use status enquiry procedures for parties in	0		5.6.5.9b	YesNo_
	the establishment phase when an indication				_
	of a Signalling AAL reset is received from				
	the Q.SAAL layer [by means of AAL-				
	ESTABLISH-INDICATION primitive]?				
PMP 78	maintain parties in the active party-state	М		5.6.5.9c	YesNo_
	according to procedures in other parts of				_
	section 5.6 when an indication of a				
	Signalling AAL reset is received from the				
	Q.SAAL layer [by means of AAL-				
	ESTABLISH-INDICATION primitive]?				
Handlin	g of error conditions: Signalling AAI	foilur	<u> </u>		
PMP 79		M		5.6.5.10	YesNo_
PMP /9	internally clear any parties not in the Active	IVI		5.6.5.10	res_no_
	party-state whenever the network layer				-
	entity is notified by its Signalling AAL				
	entity [via the AAL-RELEASE-				
	INDICATION primitive] that there is a				
	Signalling AAL malfunction?	_			
	g of error conditions: Status enquiry		re		T
PMP 80	send a STATUS ENQUIRY with endpoint	0		5.6.5.11	YesNo_
	reference of the party-state to be checked in				-
	response to procedural error conditions				
	described in 5.6.5.9 and 5.6.5.10?				
PMP 81	start T322 on sending a STATUS	М		5.6.5.11	YesNo_
	ENQUIRY message?				-
PMP 82	have only one STATUS ENQUIRY for	М		5.6.5.11	Yes_No_
	party-state information outstanding per call				-
	at a given time when T322 is active?				
PMP 83	stop T322 and continue clearing if a party	М		5.6.5.11	YesNo_
	clearing message is received before T322				-
	expires?				
PMP 84	stop T322 and take appropriate action based	М		5.6.5.11	YesNo_
	on the current state in that STATUS				_
	message, if a STATUS message is received				
	containing cause #30?				
PMP 85	send a STATUS message (with cause # 30	М		5.6.5.11	YesNo_
	and with the current party-state (the current				
	party-state of an active party or a party in				
	progress, or the Null party-state if the				
	endpoint reference does not relate to an				
	-				
	active party or a party in progress)) in				
DMD 07	response to a STATUS ENQUIRY?			56511	Vo- N
PMP 86	retransmit STATUS ENQUIRY message	0		5.6.5.11	YesNo_
	one or more times until a response is	1			-

PICS Proforma for UNI 3.1 Signalling (User Side)

	roforma for UNI 3.1 Signalling (User		1	1	st-0097.00
Item	If point-to-multipoint (PMP) procedures are supported, does the	Statu s	Condition s	Referen ce	Support
	implementation		for status		
	received on expiry of T322 if no STATUS				
	message was received?				
PMP 87	clear the party to the local interface with	М		5.6.5.11	YesNo_
	cause #41 if STATUS ENQUIRY has been				-
	retransmitted the maximum number of				
	times (implementation dependent)?				
Handling	g of error conditions: Receiving a ST	TATUS	message		
PMP 88	clear the party by sending the appropriate	0.3		5.6.5.12	YesNo_
	clearing message with cause #101 on receipt				_
	of a STATUS message reporting an				
	incompatible party-state?				
PMP 89	take actions which attempt to recover, other	0.3		5.6.5.12	Yes_No_
	than clearing the party, on receipt of a				_
	STATUS message reporting an				
	incompatible party-state?				
PMP 90	send a DROP PARTY ACKNOWLEDGE	М		5.6.5.12	YesNo_
	message with cause #101 and remain in the				
	Null party-state on receiving a STATUS				
	message indicating any party-state except				
	the Null party state while in the Null party-				
	state?				
PMP 91	take no action on receiving a STATUS	М		5.6.5.12	YesNo_
1.011 /1	message indicating any party-state except			5.0.5.12	105_110_
	the Null party-state while in the Drop Party				-
	Initiated party-state?				
PMP 92	internally clear the party and enter the Null	М		5.6.5.12c	Yes_No_
1 1011 92	party-state on receiving a STATUS message	141		5.0.5.120	105110_
	indicating the Null party-state while in any				-
	party-state except the Null party-state and				
	initiate call clearing by sending a				
	RELEASE message if no other party of the				
	call is in the Active, Add Party Initiated or				
PMP 93	Add Party Received party-states?	М		5.6.5.12	YesNo_
FMF 95	take no action other than to discard the	IVI		5.0.5.12	1 esiio_
	message (and remain in the Null party-state) on receiving a STATUS message indicating				-
	the Null party-state while in the Null party- state?				
PMP 94		0.4		5 (5 1 2	V., N.
PMP 94	take actions which are implementation	O.4		5.6.5.12	YesNo_
	dependent on receiving a STATUS				-
	indicating compatible party-state, but				
DMD 05	containing cause #96, #97, #99, or #100?	0.4		5 (5 10	V., M
PMP 95	clear the party with the appropriate	O.4		5.6.5.12	YesNo_
	procedure defined in section 5.6.3 (using the				-
	cause specified in the received STATUS				
	message) on receiving a STATUS message				
	indicating compatible party-state, but				
	containing cause #96, #97, #99, or #100, if				
	other procedures are not defined?	I			

Item	If point-to-multipoint (PMP)	Statu	Condition	Referen	Support	
	procedures are supported, does the	s	s	c e		
	implementation		for status			
0.1 = man	datory to support at least one of these procedures	for point-	to-multipoint ca	lls.		
O.2 = man	datory to support at least one of these procedures	for point-	to-multipoint ca	lls.		
O.3= man	O.3= mandatory to support at least one of these procedures.					
O.4 = mar	ndatory to support at least one of these procedur	es.				

3.7 Call States (CS)

Item	Does the implementation support the	Statu s	Conditio ns for status	Referenc e	Support			
CS 1	Null state (U0) ?	М		5.2.1.1	YesNo			
CS 2	Call Initiated state (U1)?	М	MC 1	5.2.1.1	YesNo			
CS 3	Outgoing Call Proceeding state (U3)?	М	MC 1	5.2.1.1	YesNo			
CS 4	Call present state (U6)?	М	MC 2	5.2.1.1	YesNo			
CS 5	Connect request state (U8)?	М	MC 2	5.2.1.1	YesNo			
CS 6	Incoming Call Proceeding state (U9)?	М	MC 2	5.2.1.1	Yes_No_			
CS 7	Active state (U10)?	М		5.2.1.1	Yes_No_			
CS 8	Release request state (U11)?	М		5.2.1.1	Yes_No_			
CS 9	Release indication state (U12)?	М		5.2.1.1	YesNo			
CS 10	Null state (Rest 0)?	М		5.2.3.1	Yes_No_			
CS 11	Restart request state (Rest 1)?	М		5.2.3.1	Yes_No_			
CS 12	Restart state (Rest 2)?	М		5.2.3.1	Yes_No_			
Commer	Comments							

3.8 Party States (PS)

Item	Does the implementation support	Statu	Conditio	Referenc	Support
	the	s	n s	e	
			for		
			status		
PS 1	Null party state ?	М	MC 13	5.6	YesNo
PS 2	Add Party Initiated party state ?	М	MC 13	5.6	YesNo
PS 3	Add Party Received party state ?	М	MC 13	5.6	YesNo
PS 4	Drop Party Initiated party state ?	М	MC 13	5.6	YesNo
PS 5	Drop Party Received party state ?	М	MC 13	5.6	YesNo
PS 6	Active party state?	М	MC 13	5.6	YesNo

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Item	Does the implementation support the	Statu s	Conditio ns for status	Referenc e	Support
Commen	ts				

Item	Does the implementation support the interpretation of	Status	Conditions for status	Reference	Support
MR 1	CALL PROCEEDING?	М	MC 1	5.3.1.2	YesNo
MR 2	CONNECT?	М	MC 1	5.3.1.3	YesNo
MR 3	CONNECT ACKNOWLEDGE?	М	MC 2	5.3.1.4	YesNo
MR 4	RELEASE?	М		5.3.1.5	YesNo
MR 5	RELEASE COMPLETE?	М		5.3.1.6	YesNo
MR 6	SETUP?	М	MC 2	5.3.1.7	YesNo
MR 7	STATUS?	М		5.3.1.8	YesNo
MR 8	STATUS ENQUIRY?	М		5.3.1.9	YesNo
MR 9	ADD PARTY?	М	MC 2 AND MC 13	5.3.5.1	YesNo
MR 10	ADD PARTY ACKNOWLEDGE?	М	MC 13 AND PMP 2	5.3.5.2	YesNo
MR 11	ADD PARTY REJECT?	М	MC 13 AND PMP 2	5.3.5.3	YesNo
MR 12	DROP PARTY?	М	MC 13	5.3.5.4	YesNo
MR 13	DROP PARTY ACKNOWLEDGE?	М	MC 13	5.3.5.5	YesNo
MR 14	RESTART ?	М		5.3.4.1	YesNo
MR 15	RESTART ACKNOWLEDGE ?	М		5.3.4.2	YesNo
Commen	ts		1	1	I

3.9 Supported Messages Network to User (Received by the User) (MR)

Item	Does the implementation support the inclusion of	Status	Conditions for status	Referen ce	Support
MT 1	CALL PROCEEDING?	0	MC 2	5.3.1.2	YesNo
MT 2	CONNECT?	М	MC 2	5.3.1.3	YesNo
MT 3	CONNECT ACKNOWLEDGE?	М	MC 1	5.3.1.4	YesNo
MT 4	RELEASE?	М		5.3.1.5	YesNo
MT 5	RELEASE COMPLETE?	М		5.3.1.6	YesNo
MT 6	SETUP?	М	MC 1	5.3.1.7	YesNo
MT 7	STATUS?	М		5.3.1.8	YesNo
MT 8	STATUS ENQUIRY?	М		5.3.1.9	YesNo
MT 9	ADD PARTY?	М	PMP 1	5.3.5.1	YesNo
MT 10	ADD PARTY ACKNOWLEDGE?	М	PMP 2	5.3.5.2	YesNo
MT 11	ADD PARTY REJECT?	М	PMP 2	5.3.5.3	YesNo
MT 12	DROP PARTY?	М	MC 13	5.3.5.4	YesNo
MT 13	DROP PARTY ACKNOWLEDGE?	М	MC 13	5.3.5.5	YesNo
MT 14	RESTART ?	М		5.3.4.1	YesNo
MT 15	RESTART ACKNOWLEDGE ?	М		5.3.4.2	YesNo
Commer	l its		<u> </u>		I

3.10 Supported Messages User to Network (Transmitted by the User) (MT)

PICS Proforma for UNI 3.1 Signalling (User Side)af-ter3.11 Supported Messages (Message structure) (MS)

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 1	CALL PROCEEDING			5.3.1.2	
MS 1.1	Protocol discriminator, call reference, message type and message length?	М			YesNo
MS 1.2	Connection Identifier?	0			YesNo
MS 1.3	Endpoint Reference?	O Note 1	MC 13		YesNo
Commen	ts				

Note 1: Mandatory if an Endpoint reference was included in the SETUP message.

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 2	CONNECT			5.3.1.3	
MS 2.1	Protocol discriminator, call reference, message type and message length?	М			YesNo
MS 2.2	AAL parameters ?	O Note 1			YesNo
MS 2.3	Broadband low layer information?	0			YesNo
MS 2.4	Connection Identifier?	0			YesNo
MS 2.5	Endpoint reference?	O Note 2	MC 13		YesNo
Commen	ts				

Note 1: AAL parameters information element shall not be present when the endpoint reference information element was present in the SETUP message and had a non-zero value.

Note 2: Mandatory if an Endpoint reference was included in the SETUP message.

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 3	CONNECT ACKNOWLEDGE			5.3.1.4	
MS 3.1	Protocol discriminator, call reference, message type and message length?	М			YesNo
Commen	ts				

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 4	RELEASE			5.3.1.5	
MS 4.1	Protocol discriminator, call reference, message type and message length ?	М			YesNo
MS 4.2	Cause?	М			YesNo
Commen	ts				

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 5	RELEASE COMPLETE			5.3.1.6	
MS 5.1	Protocol discriminator, call reference, message type and message length ?	М			YesNo
MS 5.2	Cause?	O Note 1			YesNo
Commen	ts				

Note 1: Mandatory in the first call clearing message; including when the RELEASE COMPLETE message is sent as a result of an error condition.

Item	Message parts Does the message include	Statu s	Condition s for status	Referen ce	Support
MS 6	SETUP			5.3.1.7	
MS 6.1	Protocol discriminator, call reference, message type and message length ?	М			YesNo
MS 6.2	AAL parameters ?	0			YesNo
MS 6.3	ATM traffic parameters ?	М			YesNo
MS 6.4	Broadband bearer capability ?	М			YesNo
MS 6.5	Broadband high layer information?	0			YesNo
MS 6.6	Broadband repeat indicator?	O Note 1			YesNo
MS 6.7	Broadband low layer information?	0			YesNo
MS 6.8	Called party number?	М			YesNo
MS 6.9	Called party subaddress?	0			YesNo
MS 6.10	Calling party number?	0			YesNo
MS 6.11	Calling party subaddress?	0			YesNo
MS 6.12	Connection identifier?	N/A			YesNo
MS 6.13	QoS parameter?	М			YesNo
MS 6.14	Broadband sending complete?	0			YesNo
MS 6.15	Transit network selection?	0			YesNo
MS 6.16	Endpoint reference?	М	PMP 1		YesNo
Comments	S	•			

Note 1: Must be included when 2 or more Broadband low-layer information elements are included for Broadband low layer information negotiation.

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 7	STATUS			5.3.1.8	
MS 7.1	Protocol discriminator, call reference, message type and message length?	М			YesNo
MS 7.2	Call state?	М			YesNo
MS 7.3	Cause?	М			YesNo
MS 7.4	Endpoint reference?	0	MC 13		YesNo
MS 7.5	Endpoint state?	М	MS 7.4		YesNo
Commen	ts	•			

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support			
MS 8	STATUS ENQUIRY			5.3.1.9				
MS 8.1	Protocol discriminator, call reference, message type and message length?	М			YesNo			
MS 8.2	Endpoint reference?	0	MC 13		YesNo			
Commen	Comments							

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 9	RESTART			5.3.4.1	
MS 9.1	Protocol discriminator, call reference (global call reference), message type and message length?	М			YesNo
MS 9.2	Connection identifier?	O Note 1			YesNo
MS 9.3	Restart indicator?	М			YesNo
Commen	ts	•			

Note 1: Included when necessary to indicate the particular virtual channel to be restarted.

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Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 10	RESTART ACKNOWLEDGE			5.3.4.2	
MS 10.1	Protocol discriminator, call reference (global call reference), message type and message length?	М			YesNo
MS 10.2	Connection identifier?	O Note 1			YesNo
MS 10.3	Restart indicator?	М			YesNo
Comments					

Note 1: Included when necessary to indicate the particular virtual channel which has been restarted.

Item	Message parts Does the message include	Status	Conditio ns for status	Referen ce	Support
MS 11	ADD PARTY			5.3.5.1	
MS 11.1	Protocol discriminator, call reference, message type and message length?	М			YesNo
MS 11.2	AAL parameters?	O Note			YesNo
MS 11.3	Broadband high layer information?	O Note			YesNo
MS 11.4	Broadband low layer information?	O Note			YesNo
MS 11.5	Called party number?	М			YesNo
MS 11.6	Called party subaddress?	0			YesNo
MS 11.7	Calling party number?	0			YesNo
MS 11.8	Calling party subaddress?	0			YesNo
MS 11.9	Broadband sending complete?	0			YesNo
MS 11.10	Transit network selection?	0			YesNo
MS 11.11	Endpoint reference?	М			Yes_No_
Comments					

Note: Must be same as in initial SETUP message.

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 12	ADD PARTY ACKNOWLEDGE			5.3.5.2	
MS 12.1	Protocol discriminator, call reference, message type and message length ?	М			YesNo
MS 12.2	Endpoint reference ?	M Note			YesNo
Comments				-	

Note: Must be the same value as in the ADD PARTY message being responded to.

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 13	ADD PARTY REJECT			5.3.5.3	
MS 13.1	Protocol discriminator, call reference, message type and message length ?	М			YesNo
MS 13.2	Cause ?	М			YesNo
MS 13.3	Endpoint reference ?	M Note			YesNo
Comments					

Note: Must be the same value as in the ADD PARTY message being responded to.

Item	Message parts Does the message include	Statu s	Conditio ns for status	Referenc e	Support
MS 14	DROP PARTY			5.3.5.4	
MS 14.1	Protocol discriminator, call reference, message type and message length ?	М			YesNo
MS 14.2	Cause ?	М			YesNo
MS 14.3	Endpoint reference ?	М			YesNo
Comments					

Item	Message parts	Statu	Conditio	Referenc	Support
	Does the message include	s	ns for	e	
			status		
MS 15	DROP PARTY ACKNOWLEDGE			5.3.5.5	
MS 15.1	Protocol discriminator, call reference,	М			YesNo
	message type and message length ?				
MS 15.2	Cause ?	0			YesNo
		Note 1			
MS 15.3	Endpoint reference ?	М			YesNo
		Note 2			
Comments					

Note 1: Mandatory when DROP PARTY ACKNOWLEDGE is sent as a result of an error condition

Note 2: Must be the same value as in the DROP PARTY message being responded to.

Item	Information element Does the implementation support	Statu s	Conditio ns for	Referenc e	Support
	the interpretation of		status		
IER 1	ATM adaptation layer parameters ?	М	MC 2	5.4.5.5	YesNo
IER 2	ATM traffic descriptor ?	М	MC 2	5.4.5.6	YesNo
IER 3	broadband bearer capability ?	М	MC 2	5.4.5.7	YesNo
IER 4	broadband high layer information ?	М	MC 2	5.4.5.8	YesNo
IER 5	broadband low layer information?	М	MC 2	5.4.5.9	YesNo
IER 6	broadband locking shift ?	М		5.4.5.3	YesNo
IER 7	broadband non-locking shift ?	М		5.4.5.4	YesNo
IER 8	broadband repeat indicator ?	М	MC 2	5.4.5.19	YesNo
IER 9	broadband sending complete ?	М	MC 2	5.4.5.21	YesNo
IER 10	call state ?	М		5.4.5.10	YesNo
IER 11	called party number ?	М	MC 2	5.4.5.11	YesNo
IER 12	called party subaddress ?	М	MC 2	5.4.5.12	YesNo
IER 13	calling party number ?	М	MC 2	5.4.5.13	YesNo
IER 14	calling party subaddress ?	М	MC 2	5.4.5.14	YesNo
IER 15	cause ?	М		5.4.5.15	YesNo
IER 16	connection identifier ?	М		5.4.5.16	YesNo
IER 17	endpoint reference ?	М	MC 13	5.4.8.1	YesNo
IER 18	endpoint state ?	М	MC 13	5.4.8.2	YesNo
IER 19	quality of service parameter ?	М	MC 2	5.4.5.18	YesNo
IER 20	restart indicator ?	М		5.4.5.20	YesNo
Commen	ts	1	1	1	<u> </u>

3.12 Information elements Network to User (received by the user) (IER)

Item	Information element Does the implementation support the inclusion of	Statu s	Conditio ns for status	Referenc e	Support
IET 1	ATM adaptation layer parameters ?	0		5.4.5.5	YesNo
IET 2	ATM traffic descriptor ?	М	MC 1	5.4.5.6	YesNo
IET 3	broadband bearer capability ?	М	MC 1	5.4.5.7	YesNo
IET 4	broadband high layer information ?	0	MC 1	5.4.5.8	YesNo
IET 5	broadband low layer information ?	0		5.4.5.9	YesNo
IET 6	broadband repeat indicator ?	O Note 1		5.4.5.19	YesNo
IET 7	broadband sending complete ?	0	MC 1	5.4.5.21	YesNo
IET 8	call state ?	М		5.4.5.10	YesNo
IET 9	called party number ?	М	MC 1	5.4.5.11	YesNo
IET 10	called party subaddress ?	0	MC 1	5.4.5.12	YesNo
IET 11	calling party number ?	0	MC 1	5.4.5.13	YesNo
IET 12	calling party subaddress ?	0	MC 1	5.4.5.14	YesNo
IET 13	cause ?	М		5.4.5.15	YesNo
IET 14	connection identifier ?	O Note 2		5.4.5.16	YesNo
IET 15	endpoint reference ?	М	MC 13	5.4.8.1	YesNo
IET 16	endpoint state ?	М	MC 13	5.4.8.2	YesNo
IET 17	quality of service parameter ?	М	MC 1	5.4.5.18	YesNo
IET 18	restart indicator ?	М		5.4.5.20	YesNo
IET 19	transit network selection ?	0	MC 1.2	5.4.5.22	YesNo
Commer	I its Mandatory if sending multiple Broadband lo	l w lever in	formation alo	ments	1

3.13 Information elements User to Network (Transmitted by the user) (IET)

Note 1: Mandatory if sending multiple Broadband low layer information elements. Note 2: Included when necessary to indicate the particular virtual channel to be restarted.

3.14 Timers (TM)

Item	Timer Does the implementation support	Status	Conditio ns for status	Value	Referenc e	Support
TM 1	T303? Indicate its default value.	М	MC 1		5.7.2	YesNo
TM 2	T308? Indicate its default value.	М			5.7.2	YesNo
TM 3	T309? Indicate its default value.	М			5.7.2	YesNo
TM 4	T310? Indicate its default value.	М	MC 1		5.7.2	YesNo
TM 5	T313? Indicate its default value.	М	MC 2		5.7.2	YesNo
TM 6	T316? Indicate its default value.	М			5.7.2	YesNo
TM 7	T317? Indicate its default value.	М			5.7.2	YesNo
TM 8	T322? Indicate its default value.	М			5.7.2	YesNo
TM 9	T398? Indicate its default value.	М	MC 13		5.7.2	YesNo
TM10	T399? Indicate its default value.	М	PMP 1		5.7.2	YesNo
Comme	l nts	1	1			1