

The ATM Forum Technical Committee

Call Processing Priority Version1.0

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This specification uses three levels for indicating the degree of compliance necessary for specific functions, procedures or coding. They are indicated by the use of key words as follows:

- **Requirement:** "Shall" indicates a required function, procedure or coding necessary for compliance. The word "shall" used in text indicates a conditional requirement when the operation described is dependent on whether or not an objective or option is chosen.
- **Objective:** "Should" indicates an objective which is not required for compliance, but which is considered desirable.
- **Option:** "May" indicates an optional operation without implying a desirability of one operation over another. That is, it identifies an operation that is allowed while still maintaining compliance.

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1 Introduction [Informative]

This document contains the description and specification of the Call Processing Priority feature for UNI, PNNI and AINI interfaces.

Section 2 specifies the coding requirements and sections 3, 4 and 5 specify signalling procedures and messages necessary to associate a Call Processing Priority level to a connection at the UNI, PNNI and AINI interfaces, respectively. Annexes A, B and C contain the PICS Proformas for the Call Processing Priority feature at the UNI, PNNI and AINI interfaces, respectively.

1.1 Scope [Normative]

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The Call Processing Priority feature is an optional capability of [SIG 4.1], [PNNI 1.1] and [AINI].

The procedures specified in this document provide for the association of a Call Processing Priority level to a call during call establishment . The Call Processing Priority level specified during call establishment applies to subsequent messages for that call, including call clearing messages. The decision of whether to assign a given priority level to a call is outside the scope of this specification.

A node supporting the Call Processing Priority feature shall implement the procedures for point-to-point and point-to-multipoint calls. A node shall support the association of a priority level with calls for a virtual channel connection (SVCC, soft PVCC) and calls for a virtual path connection (SVPC, soft PVPC).

A node supporting the Call Processing Priority feature shall differentiate a call's access to call processing resources using the priority level in signalling messages.

A switch supporting Call Processing Priority at the UNI, PNNI or AINI shall be capable of forwarding the Priority services information element with Call Processing Priority. A switch supporting Call Processing Priority at the UNI, Inter domain PNNI or AINI may also be capable of generating a 'network-generated' Priority services information element with Call Processing Priority.

The Call Processing Priority level may be mapped at administrative boundaries. Procedures how to map the Call Processing Priority level are beyond the scope of this specification.

As an option, the Call Processing Priority feature also provides a mechanism to transport transparently across a network a user provided Priority information element as specified in the Call Priority ITU-T recommendation (Q.2959). A node supporting this option that receives a Q.2959 Priority information element shall not alter this information element or directly use it to prioritize the call. The node may use the Priority information element to derive a Call Processing Priority level which will in turn be used to prioritize the call through the network.

Support of priority for pre-emption of already established calls is outside the scope of this document.

1.1.1 Applicability to PNNI 1.0

A device supporting PNNI 1.0 [PNNI 1.0] may implement functionality defined in this addendum by treating this addendum as if it were an optional addendum to PNNI 1.0 [PNNI 1.0] and PNNI 1.0 Errata and PICS[PNNI ERR].

1.1.2 Applicability to SIG 4.0

A device supporting SIG 4.0 [SIG 4.0] may implement functionality defined in this addendum by treating this addendum as if it were an optional addendum to SIG 4.0 [SIG 4.0].

1.2 Overview [Informative]

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The Call Processing Priority feature enables a service provider to give preferential access to call processing resources for higher priority calls. This prioritization is effective during call setup, clearing and reroute.

This specification defines priority differentiation during call processing. This should not be confused with existing ATM capabilities in the user plane. For example, in the user plane, CBR connections have priority of access to resources over all other ATM Service Categories.

The Call Processing Priority is specified in the first signalling message for a given point-to-point or point-to-multipoint call (e.g. SETUP message), and applies to subsequent messages for that call. For each type of message, messages for calls of a higher priority are processed preferentially compared to messages of the same type for calls of a lower priority.

If the network receives a SETUP message across an administrative boundary for a call and the message does not indicate a Call Processing Priority, then the receiving network can optionally associate a Call Processing Priority with the call before forwarding the call across the network. This allows the network to implement priority-based policies even when users do not specify a Call Processing Priority in the SETUP message.

This specification also provides the mechanisms to transport the Priority information element defined in ITU-T Recommendation Q.2959, which is different from the Priority services information element with Call Processing Priority defined in this specification. If a user includes the Priority information element defined in Q.2959 in a SETUP message, the network forwards the information element transparently end to end without any alterations. This provides the user the ability to deliver the Priority information element to the called user. The procedures that are specified in Q.2959 are not supported in this specification. The Q.2959 Priority information element may be used to derive the Call Processing Priority level in the Priority services information element with Call Processing Priority, thus influencing the priority of a call inside the network.

1.3 References

[SIG 4.1]	ATM Forum Technical Committee, <i>User-Network Interface (UNI) Signalling Specification</i> , Version 4.1, af-sig-0061.002, March 2002.
[SIG 4.0]	ATM Forum Technical Committee, ATM User-Network Interface (UNI) Signalling Specification, Version 4.0, af-sig-0061.000, July1996.
[PNNI 1.1]	ATM Forum Technical Committee, <i>Private Network-Network Interface Specification</i> v1.1, af-pnni-0055.002, March 2002
[PNNI 1.0]	ATM Forum Technical Committee, <i>Private Network-Network Interface Specification Version 1.0</i> , af-pnni-0055.000, March 1996.
[PNNI ERR]	ATM Forum Technical Committee, <i>PNNI v1.0 Errata and PICS</i> , af-pnni-0081.000, May 1997.
[AINI]	ATM Forum Technical Committee, ATM Inter-Network Interface (AINI) Specifications, ATM Forum af-cs-0125.000, April 1999
[Q.2959]	ITU-T Recommendation Q.2959 (1996), Digital Subscriber Signalling System No. 2 – Call Priority.
[Q.2726.2]	ITU-T Recommendation Q.2726.2(1996) B-ISDN user part - Call priority
[DBR]	ATM Forum Technical Committee, <i>Domain-based rerouting for active point-to-point calls version 1.0</i> , af-cs-0173.000, August 2001

1.4 Acronyms

AINI	ATM Inter-network Interface
B-ISUP	Broadband ISDN User Part
CPP	Call Processing Priority
CBR	Continuous Bit Rate
DBR	Domain-Based Rerouting
PICS	Protocol Implementation Conformance Statement
PNNI	Private Network-Network Interface
soft PVC	Soft Permanent Virtual Connection
SVC	Switched Virtual Connection
UNI	User-Network Interface

1.5 Definition

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Call Processing Resources

Control plane resources that are used to process the offered signalling and call control load. This includes signalling link transmission bandwidth, internal switch message queues, CPU real-time and memory resources. Call Processing Resources do not include resources needed for data transfer.

2 Coding Requirements [Normative]

2.1 Priority Services Information Element

The Priority services information element shall be coded as shown in Figure 2.1.

Bits								
8	7	6	5	4	3	2	1	Octets
	Prior	rity Service	s Informatio	on Elemer	nt identifie	er		
1	1	1	1	0	1	1	1	1
	Γ							
1	Coc	ling	Inf	ormation	Element Ir	nstruction	Field	
	Stan	dard						
Ext			Flag	Pass	Informa	tion Eleme	ent Action	2
				along		Indicator	•	
	Length of Priority Services information element contents						3	
Le	Length of Priority Services information element contents (continued)						4	
	Call Processing Priority identifier					5* (Note1)		
0	0	0	0	0	0	0	1	
	Origin						5.1*	
	Spar	re			Call Proce	ssing Prior	rity	5.2*

Note 1 - Although octet group 5 (Call Processing Priority) is optional within the context of the information element, its inclusion is mandatory within the context of this specification.

Figure (2.1) Priority services information element

Coding standard (octet 2)

Bits	Meaning
7 6	
1 1	ATM Forum specific

Origin (octet 5.1)

0

Indicates the origin of this information element.

Bits	Meaning
8765 4321	
0000 0000	Originating user
0000 0001	Network generated

Originating user: If the origin field is set to 'originating user', the field indicates that the Call Processing Priority level either was supplied by the originating user, or was mapped by networks in ways that preserve the meaning of the priority.

Network generated: If the origin field is set to 'network generated', the field indicates that the Call Processing Priority level either was generated by the network without regard to any priority level specified by the originating user, or was mapped by networks without preserving the meaning of the priority.

Call Processing Priority (Octet 5.2)

The Call Processing Priority level for a given point-to-point or point-to-multipoint call is indicated in the first signalling message for that call (e.g. SETUP message), and applies to the first signalling message and to all subsequent messages for that call. For each type of message, messages for calls of a higher priority level shall be processed preferentially compared to messages of the same type for calls of a lower priority level.

Four binary coded bits indicating priority coded as follows:

Bits	Meaning
4 3 2 1	
0 0 0 0	Level 1 (highest priority)
$0 \ 0 \ 0 \ 1$	Level 2
$0 \ 0 \ 1 \ 0$	Level 3
$0 \ 0 \ 1 \ 1$	Level 4
$0 \ 1 \ 0 \ 0$	Level 5
1 1 1 0	Level 15
1 1 1 1	Level 16 (lowest priority)

If this information element is received with unrecognized content or the information element exceeds its maximum length, it shall be treated as an unrecognized information element.

2.2 Priority Information Element

Refer to section 8.2.1/Q.2959.

3 UNI Support of Call Processing Priority [Normative]

3.1 Additions to UNI Signalling Messages

3.1.1 Basic Point-to-Point Call at the UNI

Add the following to section 2.0/UNI 4.1 Basic point-to-point call:

3.1.7/Q.2931 SETUP:

Add the following to Table 3-8/Q.2931:

Information Element name	Reference	Direction	Туре	Length
Priority services	Section 2.1	both	O (Note 1)	7
Priority	8.2.1/Q.2959	both	0	10

Note 1: This information element may occur up to 5 times. At most one instance may contain a Call Processing Priority identifier and the other four instances are for future use.

4.5.1/Q.2931 Coding Rules

Add the following to Table 2-1/UNI 4.1:

Bits		Information Element	Max Length	Min Length	Max no of Occurrences	Reference
8765	4321					
1111	0111	Priority services	7	7	5	2.1
1000	$1\ 0\ 0\ 0$	Priority	10	10	1	8.2.1/Q.2959

3.1.2 Point-to-Multipoint calls at the UNI

Add the following to section 5/UNI 4.1 Point-to-Multipoint Calls:

8.1.2.1/Q.2971 ADD PARTY:

0

Add the following to Table 8-10/Q.2971:

Information Element name	Reference	Direction	Туре	Length
Priority services	Section 2.1	both	O (Note 1)	7
Priority	8.2.1/Q.2959	both	0	10

Note 1: This information element may occur up to 5 times. At most one instance may contain a Call Processing Priority identifier and the other four instances are for future use.

3.2 Signalling procedures for Call Processing Priority for SIG 4.1

The procedures for basic call control in section 2/SIG 4.1 and section 5/SIG 4.1 shall apply . This section contains additional procedures related to the handling of the Priority services information element with Call Processing Priority .

The following procedures also provide, as an option, the mechanism to transport a user provided Q.2959 specified Priority information element transparently across networks.

3.2.1 Procedures at the Originating UNI interface

3.2.1.1 Procedures at the User Side

3.2.1.1.1 Procedures at the S_B and Coincident S_B and T_B Reference Points

If the calling user wishes to associate a Call Processing Priority level with a call, the calling user shall include a Priority services information element with Call Processing Priority formatted as defined in section 2 in the SETUP or ADD PARTY message sent to the network. The range of the Call Processing Priority value may be based on user subscription (e.g. different ranges for SVCs and soft PVCs). The origin field shall be set to "originating user".

In an ADD PARTY message, the Call Processing Priority level shall be set to the level signalled in the original SETUP message for the same call. If no Priority services information element with Call Processing Priority was included in the original SETUP message, then no Priority services information element with Call Processing Priority shall be included in the ADD PARTY message.

In addition, the calling user may include a Q.2959 Priority information element as defined in section 2.2 in the SETUP or ADD PARTY message sent to the network.

3.2.1.1.2 Procedures at the T_B Reference Points

The procedures of section 3.2.2.1 shall apply changing "network" to "user", except the terms "network specific" and "network generated", which shall remain unchanged.

3.2.1.2 Procedures at the Network Side

If the network side receives a SETUP message containing a Priority services information element with Call Processing Priority and the origin field set to "originating user", then if the call is progressed, the network shall include the received Priority services information element with Call Processing Priority in the forwarded setup indication. The Call Processing Priority level included in the forwarded setup indication shall be set to either:

- The received Call Processing Priority level, or
- As a network option, a level resulting from local mapping of the received Call Processing Priority level in a way that preserves the meaning of the priority. The origin field shall remain unaltered.

If the received Call Processing Priority level in the Priority services information element with Call Processing Priority exceeds the user's highest allowed Call Processing Priority level, the Call Processing Priority level shall be defaulted to the user's highest allowed Call Processing Priority level.

If the network side receives a SETUP message containing a Priority services information element with a Call Processing Priority with the origin field set to "network generated", then the network side shall take

one of the following actions:

- Discard the Priority services information element with a Call Processing Priority and progress the message as if the Priority services information element with a Call Processing Priority was not present,
- Replace the received Priority services information element with a Call Processing Priority with a new Priority services information element with a Call Processing Priority in the forwarded message (with the origin field set to "network generated"), or
- Forward unchanged the received Priority services information element with a Call Processing Priority.

If the network receives a SETUP message for a call that does not contain a Priority services information element with a Call Processing Priority, then if the call is progressed, the network may include a Priority services information element with a Call Processing Priority with the origin field set to "network generated" in the forwarded setup indication.

The network shall take specific local actions to prioritize this message and all subsequent signalling messages for this call according to the indicated Call Processing Priority level. If no Call Processing Priority level is indicated, the network shall treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level. For each type of message, messages for calls of a higher priority level shall be processed preferentially compared to messages of the same type for calls of a lower priority level.

Upon reception of an ADD PARTY message, the following procedures shall apply:

- If the forwarded setup indication did not contain a Priority services information element with Call Processing Priority, then no Priority services information element with Call Processing Priority shall be included in the forwarded add party indication.
- If the forwarded setup indication contained a Priority services information element with Call Processing Priority, the same Priority services information element with Call Processing Priority shall be included in the forwarded add party indication.

If the network receives a SETUP or ADD PARTY message containing a Q.2959 Priority information element and the network supports transport of the Q.2959 Priority information element, then if the call is progressed, the network shall include the received Priority information element in the forwarded setup or add party indication without any alterations.

3.2.2 Procedure at the Destination UNI

3.2.2.1 Procedures at the Network Side

Upon receiving a setup request, the network shall take specific local actions to prioritize this message and all subsequent signalling messages for this call according to the indicated Call Processing Priority level. If no Call Processing Priority level is indicated, the network shall treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level. For each type of message, messages for calls of a higher priority level shall be processed preferentially compared to messages of the same type for calls of a lower priority level.

If the network side receives a setup request containing a Priority services information element with Call Processing Priority and the origin field set to "originating user", then if the call is progressed the network shall include the received Priority services information element with Call Processing Priority in the forwarded message. The Call Processing Priority level included within the forwarded message shall be set to either :

• The received Call Processing Priority level, or

• As a network option, a level resulting from local mapping of the received Call Processing Priority level in a way that preserves the meaning of the priority. The origin field shall remain unaltered.

If the network side receives a setup request containing a Priority services information element with a Call Processing Priority with the origin field set to "network generated", then the network side shall take one of the following actions before progressing the message:

- Discard the Priority services information element with Call Processing Priority,
- Replace the received Priority services information element with Call Processing Priority with a new Priority services information element with Call Processing Priority in the forwarded message (with the origin field set to "network generated"), or
- Forward unchanged the received Priority services information element with Call Processing Priority.

Upon reception of an add party request, the following procedures shall apply:

- If the forwarded SETUP message did not contain a Priority services information element with Call Processing Priority, then no Priority services information element with Call Processing Priority shall be included in the forwarded ADD PARTY message.
- If the forwarded SETUP message contained a Priority services information element with Call Processing Priority, the same Priority services information element with Call Processing Priority shall be included in the forwarded ADD PARTY message.

If the network side receives a setup or add party request containing a Q.2959 Priority information element and the network supports transport of the Q.2959 Priority information element, then if the call is progressed, the network shall include the received Priority information element in the forwarded message without any alterations.

3.2.2.2 Procedures at the User Side

3.2.2.2.1 Procedures at the S_B and Coincident S_B and T_B Reference Points

Upon receiving the SETUP message, the called user shall take specific local actions to prioritize this message and all subsequent signalling messages for this call according to the indicated Call Processing Priority level. If no Call Processing Priority level is indicated, the called user shall treat this call as if it contains a Call Processing Priority level equal to a configurable level. For each type of message, messages for calls of a higher priority level shall be processed preferentially compared to messages of the same type for calls of a lower priority level.

3.2.2.2.2 Procedures at the T_B Reference Point

The procedures of section 3.2.1.2 shall apply changing "network" to "user", except the terms "network generated" and "network specific", which shall remain unchanged. Add the following statement at the end of the second paragraph:

The user may apply other criteria or checks on the received level, including any possible association with the originating user.

3.3 Compatibility with Nodes Not Supporting This Feature

Upon receiving a SETUP or ADD PARTY message containing the Priority services information element with Call Processing Priority, nodes not supporting this feature will treat the Priority services information element with Call Processing Priority as an unrecognized information element.

Nodes supporting the Call Processing Priority capability shall set the IE instruction field in the Priority services information element with Call Processing Priority as follows:

- The IE instruction flag field (bit 5 of octet 2) shall be set to "follow explicit instructions", and
- The action indicator (bits 1-3 of octet 2) shall be set to "discard information element and proceed" or "discard information element, proceed, and report status".

With these settings, nodes that do not support the Call Processing Priority capability will treat the calls/connections that include the Priority services information element with Call Processing Priority the same as any other calls/connections that do not include the Priority services information element with Call Processing Priority .

4 PNNI Support of Call Processing Priority [Normative]

4.1 Additions to PNNI Signalling Messages

In section 6.4.5.1/PNNI 1.1, add the following to Table 6-5:

Bits		its	Information Element	Max Length	Min Length	Max no of Occurences	Reference
876	5	4321					
111	1	0111	Priority services	7	7	5	2.1
100	0	1000	Priority	10	10	1	8.2.1/Q.2959

4.1.1 SETUP

The following information elements are added to Figure 6-8 in 6.3.1.6/PNNI 1.1:

Information Element	Reference	Туре	Length
Priority services	Section 2.1	O (Note)	7
Priority	8.2.1/Q.2959	0	10

Note: This information element may occur up to 5 times. At most one instance may contain a Call Processing Priority identifier and the other four instances are for future use.

4.1.2 ADDPARTY

The following information elements are added to Figure 6-19 in 6.4.3.1/PNNI 1.1:

Information Element	Reference	Туре	Length	
Priority services	Section 2.1	O (Note)	7	
Priority	8.2.1/Q.2959	0	10	

Note: This information element may occur up to 5 times. At most one instance may contain a Call Processing Priority identifier and the other four instances are for future use.

4.2 Signalling Procedures for Call Processing Priority for PNNI

The procedures for basic call control in section 6.5/PNNI 1.1 and section 6.6/PNNI 1.1 shall apply. This section describes additional procedures to handle calls/connections that specify a Priority services

information element with Call Processing Priority and procedures to transport the Q.2959 Priority information element end-to-end.

4.2.1 Call Processing Priority Feature for Intra-Domain PNNI

4.2.1.1 Preceding Side

Upon receiving a setup request, the node shall take specific local actions to prioritize this message and all subsequent signalling messages for this call according to the indicated Call Processing Priority level. If no Call Processing Priority level is indicated, the node shall treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level. For each type of message, messages for calls of a higher priority level shall be processed preferentially compared to messages of the same type for calls of a lower priority level.

If the preceding side receives a setup or add party request containing a Priority services information element with Call Processing Priority, then if the call is progressed, the preceding side shall include the received Priority services information element with Call Processing Priority in the forwarded message.

If the preceding side receives a setup or add party request containing a Q.2959 Priority information element and the preceding side supports transport of the Q.2959 Priority information element, then if the call is progressed, the preceding side shall include the received Priority information element in the forwarded message without any alterations.

4.2.1.2 Succeeding Side

If the succeeding side receives a SETUP message containing a Priority services information element with Call Processing Priority, then if the call is progressed, the succeeding side shall include the received Priority services information element with Call Processing Priority in the forwarded setup indication.

The node shall take specific local actions to prioritize this message and all subsequent signalling messages for this call according to the indicated Call Processing Priority level. If no Call Processing Priority level is indicated, the node shall treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level. For each type of message, messages for calls of a higher priority level shall be processed preferentially compared to messages of the same type for calls of a lower priority level.

Upon reception of an ADD PARTY message, the following procedures shall apply:

- If the forwarded setup indication did not contain a Priority services information element with Call Processing Priority, then no Priority services information element with Call Processing Priority shall be included in the forwarded add party indication.
- If the forwarded setup indication contained a Priority services information element with Call Processing Priority, the same Priority services information element with Call Processing Priority shall be included in the forwarded add party indication.

If the succeeding side receives a SETUP or ADD PARTY message containing a Q.2959 Priority information element and the succeeding side supports transport of the Q.2959 Priority information element, then if the call is progressed, the succeeding side shall include the received Priority information element in the forwarded setup or add party indication without modification.

4.2.2 Call Processing Priority feature for Inter-Domain PNNI

4.2.2.1 Preceding Side

Upon receiving a setup request, the node shall take specific local actions to prioritize this message and all subsequent signalling messages for this call according to the indicated Call Processing Priority level. If no Call Processing Priority level is indicated, the node shall treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level. For each type of message, messages for calls of a higher priority level shall be processed preferentially compared to messages of the same type for calls of a lower priority level.

If the preceding side receives a setup request containing a Priority services information element with Call Processing Priority with the origin field set to "originating user", then if the call is progressed, the preceding side shall include the received Priority services information element with Call Processing Priority in the forwarded message. The Call Processing Priority level included within the forwarded message shall be set to either :

- The received Call Processing Priority level, or
- As a network option, a level resulting from local mapping of the received Call Processing Priority level in a way that preserves the meaning of the priority. The origin field shall remain unaltered.

If the preceding side receives a setup request containing a Priority services information element with Call Processing Priority with the origin field set to "network generated", then the preceding side shall take one of the following actions before progressing the message:

- Discard the Priority services information element with Call Processing Priority,
- Replace the received Priority services information element with Call Processing Priority with a new Priority services information element with Call Processing Priority in the forwarded message (with the origin field set to "network generated"), or
- Forward unchanged the received Priority services information element with Call Processing Priority.

Upon reception of an add party request, the following procedures shall apply:

- If the forwarded SETUP message did not contain a Priority services information element with Call Processing Priority, then no Priority services information element with Call Processing Priority shall be included in the forwarded ADD PARTY message.
- If the forwarded SETUP message contained a Priority services information element with Call Processing Priority, the same Priority services information element with Call Processing Priority shall be included in the forwarded ADD PARTY message.

If the preceding side receives a setup or add party request containing a Q.2959 Priority information element and the preceding side supports transport of the Q.2959 Priority information element, then if the call is progressed, the preceding side shall include the received Priority information element in the forwarded message without any alterations.

4.2.2.2 Succeeding Side

If the succeeding side receives a SETUP message containing a Priority services information element with Call Processing Priority and the origin field set to "originating user", then if the call is progressed, the succeeding side shall include the received Priority services information element with Call Processing Priority in the forwarded setup indication. The Call Processing Priority level included in the forwarded setup indication shall be set to either:

- The received Call Processing Priority level, or
- As a network option, a level resulting from local mapping of the received Call Processing Priority

level in a way that preserves the meaning of the priority. The origin field shall remain unaltered.

If the received Call Processing Priority level in the Priority services information element with Call Processing Priority exceeds the highest allowed Call Processing Priority level, the Call Processing Priority level shall be defaulted to the highest allowed Call Processing Priority level.

If the succeeding side receives a SETUP message containing a Priority services information element with Call Processing Priority with the origin field set to "network generated", then the succeeding side shall take one of the following actions:

- Discard the Priority services information element with Call Processing Priority and process the message as if the Priority services information element with Call Processing Priority was not present,
- Replace the received Priority services information element with Call Processing Priority with a new Priority services information element with Call Processing Priority in the forwarded message (with the origin field set to "network generated"), or
- Forward unchanged the received Priority services information element with Call Processing Priority.

If the succeeding side receives a SETUP message for a call that does not contain a Priority services information element with a Call Processing Priority, then if the call is progressed, the succeeding side may optionally include a Priority services information element with Call Processing Priority with the origin field set to "network generated" in the forwarded setup indication.

The network shall take specific local actions to prioritize this message and all subsequent signalling messages for this call according to the indicated Call Processing Priority level. If no Call Processing Priority level is indicated, the node shall treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level. For each type of message, messages for calls of a higher priority level shall be processed preferentially compared to messages of the same type for calls of a lower priority level.

Upon reception of an ADD PARTY message, the following procedures shall apply:

- If the forwarded setup indication did not contain a Priority services information element with Call Processing Priority, then no Priority services information element with Call Processing Priority shall be included in the forwarded add party indication.
- If the forwarded setup indication contained Priority services information element with Call Processing Priority, the same Priority services information element with Call Processing Priority shall be included in the forwarded add party indication.

If the succeeding side receives a SETUP or ADD PARTY message containing a Q.2959 Priority information element and the succeeding side supports transport of the Q.2959 Priority information element, then if the call is progressed, the succeeding side shall include the received Priority information element in the forwarded setup or add party indication without any alterations.

4.3 Compatibility with Nodes Not Supporting This Feature

Upon receiving a SETUP or ADD PARTY message containing Priority services information element with Call Processing Priority nodes not supporting this feature will treat the Priority services information element with Call Processing Priority as an unrecognized information element.

Nodes supporting the Call Processing Priority capability shall set the IE instruction field in the Priority services information element with Call Processing Priority as follows:

• The IE instruction flag field (bit 5 of octet 2) shall be set to "follow explicit instructions",

- The action indicator (bits 1-3 of octet 2) shall be set to "discard information element and proceed" or "discard information element, proceed, and report status", and
- The pass along request field (bit 4 of octet 2) shall be set to "pass along request".

With these settings, at nodes that do not support the Call Processing Priority capability, calls/connections that include the Priority services information element with Call Processing Priority shall be treated the same as any other calls/connections that do not include the Priority services information element with Call Processing Priority .

4.4 Feature Interactions with DBR

For nodes implementing both this specification and DBR [DBR] the following procedures shall apply:

Whenever a DBR reroute setup request is initiated:

- If the setup request progressed by call control to establish the initial connection did not contain a Priority services information element with Call Processing Priority, then no Priority services information element with Call Processing Priority shall be included in the DBR reroute setup request.
- If the setup request progressed by call control to establish the initial connection contained a Priority services information element with Call Processing Priority, the same Priority services information element with Call Processing Priority shall be included in the DBR reroute setup request.

5 AINI Support of Call Processing Priority

5.1 AINI Signalling

5.1.1 Additions to AINI Signalling Messages

The message coding defined in section 4.1 shall apply.

5.1.2 Signalling procedures for Call Processing Priority for AINI

The procedures specified in Section 4.2.2 shall apply.

5.1.3 Compatibility with Nodes Not Supporting This Feature

The procedures in section 4.3 shall apply.

5.2 Interworking between AINI and B-ISUP

Add the following rows and notes to the table in section 4.1.1.2.1.1/AINI:

AINI	to B-ISUP
SETUP	IAM
Priority services	Not Carried (Note 1)
Priority	Priority (according to Q.2726.2) (Note 2)

Note 1: The actions specified in the action indicator of this information element shall be applied except that no status needs to be returned.

Note 2: At a node providing interworking to B-ISDN ISUP, the information from the Q.2959 Priority information element shall be placed unchanged into the Priority parameter as defined in Q.2726.2 for inclusion in the IAM.

Modify the following row and add a note in the table in section 4.1.1.2.1.2/AINI: Note for the editor: fix arrows in the below and use the same format as in the first table

BISUP	AINI
IAM	SETUP
Priority (according to Q.2726.2) (Note1)	Priority (Note 1)

Note 1: At a node performing interworking from B-ISUP, the processing of the IAM containing this parameter shall be as described in Q.2726.2 for an Intermediate exchange. The Priority parameter from the IAM shall be placed unchanged into a Q.2959 Priority information element as defined in Q.2959 for transparent transport across the UNI, PNNI, or AINI signalling system.

Add the following rows and notes to the table in section 4.1.4.2.1.2/AINI: Note for the editor: fix arrows in the below and use the same format as in the first table

AINI	B-ISUP			
ADD PARTY	IAM			
Priority services	Not Carried (Note 1)			
Priority	Priority (according to Q.2726.2) (Note 2)			

Note 1: The actions specified in the action indicator of this information element shall be applied except that no status needs to be returned

Note 2: At a node providing interworking to B-ISDN ISUP, the information from the Q.2959 Priority information element shall be placed unchanged into the Priority parameter as defined in Q.2726.2 for inclusion in the IAM.

B-ISUP	to	AINI
IAM		ADD PARTY
Priority (according to Q.2726.2) (Note 1)	Priority (Note 1)	

Note 1: At a node performing interworking from B-ISUP, the processing of the IAM containing this parameter shall be as described in Q.2726.2 for an Intermediate exchange. The Priority parameter from the IAM shall be placed unchanged into a Q.2959 Priority information element as defined in Q.2959 for transparent transport across the UNI, PNNI, or AINI signalling system.

5.3 Interworking between AINI and PNNI

The procedures of section 4.2/AINI apply (i.e. information elements and messages are mapped to their equivalent counterparts).

6 Protocol Implementation Conformance Statement (PICS) for the UNI Signalling 4.1 Component of Call Processing Priority feature.

6.1 Introduction

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

6.1.1 Scope

This document provides the PICS proforma for the UNI Signalling 4.1 component Call Processing Priority capability, defined in [1] in compliance with the relevant requirements, and in accordance with the relevant guidelines, given in ISO/IEC 9646-7. In most cases, statements contained in notes in the specification, which were intended as information, are not included in the PICS.

6.1.2 Normative References

- [1] Call Processing Priority Version 1, af-cs-0182.000, ATM Forum Technical Committee, March 2002.
- [2] 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)).
- [3] ISO/IEC 9646-7:1995, Information technology Open systems interconnection Conformance testing methodology and interconnection Part 7: Implementation Conformance Statements (See also ITU telecommunication X.296 (1995)).
- [4] ISO/IEC 9646-3:1998, Information technology Open systems interconnection Conformance testing methodology and interconnection – Part 3: The Tree and Tabular Combined Notation (TTCN) (See also ITU telecommunication X.292 (1998)).

6.1.3 Definitions

Terms defined in [1]

Terms defined in ISO/IEC 9646-1 and in ISO/IEC 9646-7

In particular, the following terms defined in ISO/IEC 9646-1 apply:

Protocol Implementation Conformance Statement (PICS): A statement made by the supplier of an implementation or system, stating which capabilities have been implemented for a given protocol. **PICS proforma**: 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.

6.1.4 Acronyms

- ASN.1 Abstract Syntax Notation One
- ATS Abstract Test Suite
- IUT Implementation Under Test
- PICS Protocol Implementation Conformance Statement
- SUT System Under Test

6.1.5 Conformance

The PICS does not modify any of the requirements detailed in Call Processing Priority capability. In case of apparent conflict between the statements in the base specification and in the annotations of "M"

(mandatory) and "O" (optional) in the PICS, the text of the base specification takes precedence. The supplier of a protocol implementation, which is claimed to conform to the UNI Signalling 4.1 component of Call Processing Priority capability, 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.

6.2 Identification of the Implementation

Identification of the Implementation Under Test (IUT) and system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different. A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

6.2.1 Date of Statement

6.2.2 Implementation Under Test (IUT) Identification

IUT Name: _____

IUT Version: _____

6.2.3 System Under Test (IUT) Identification

Operating System: _____

0

6.2.4 Product Supplier

Name:	 	 	
Address:			
Telephone Number:	 	 	
Facsimile Number:	 	 	
Email Address:			

Additional Information: ____

6.2.5 Client

Name:	 	
Address:		
Telephone Number:		
Facsimile Number:		
Email Address:		
Additional Information:		

6.2.6 PICS Contact Person

(A person to contact if there are any queries concerning the content of the PICS)

Name:		
Telephone Number:		
Facsimile Number:		
Email Address:		
Additional Information:		

Identification of the Protocol Specification

This PICS proforma applies to the following specification:

[1] Call Processing Priority Capability, af-cs-0xxx.000, ATM Forum Technical Committee, 2001.

6.3 PICS Proforma

6.3.1 Global statement of conformance

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

[] YES

[] NO

0

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.

6.3.2 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.

The following notations, defined in ISO/IEC 9647-7, are used for the support column:

Yes supported by the implementation

0

No not supported by the implementation

The following notations, defined in ISO/IEC 9647-7, are used for the status column:

- M mandatory the capability is required to be supported.
- O optional the capability may be supported or not.
- O.i qualified optional for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection is defined immediately following the table.

A supplier may also provide additional information, categorised as exceptional or supplementary information. These additional information should be provided as items labelled 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 labelled 'Reference' gives a pointer to sections of the protocol specification for which the PICS Proforma is being written.

6.4 PICS for the support of Call Processing Priority at the UNI

Item Number	Item Description	Status	Condition for Status	Referenc e	Support
MCU 1	Does the IUT support Call Processing Priority for point-to-point calls?	М		1.1	YesNo
MCU 2	Does the IUT support Call Processing Priority for point-to-multipoint calls?	М	Note 1	1.1	YesNo
MCU 3	Does the IUT support the association of a Call Processing Priority level with calls for switched virtual channel connections (SVCC)?	М		1.1	Yes_ No_
MCU 4	Does the IUT support the association of a Call Processing Priority level with calls for switched virtual path connections (SVPC)?	М	Note 2	1.1	Yes_ No
MCU 5	Does the IUT differentiate call's access to call processing resources using Call Processing Priority level in signalling messages?	М		1.1	Yes_ No_
MCU 6	Does the IUT support forwarding Priority services information element with Call Processing Priority level?	М		1.1	YesNo
MCU 7	Is the IUT capable of generating a Priority services information element with a Call Processing Priority level and with the origin field set to "network generated"?	0	MCU11 or MCU10.2	1.1	Yes_ No_
MCU 8	Does the IUT support mapping of the Call Processing Priority level at administrative boundaries?	0	MCU11 or MCU10.2	1.1	YesNo
MCU 9	Does the IUT support the end-to-end transport of Q.2959-specified Priority information element across the network transparently?	0	MCU11 or MCU 10.2	1.1,3.2	Yes_No_
MCU 10	Does the IUT support Call Processing Priority at the user side?	0.1		3.2.1.1, 3.2.2.2	YesNo
MCU 10.1	Does the IUT support Call Processing Priority at the user side of the S_B or coincident S_B and T_B reference point?	0.2	MCU10	3.2.1.1.1, 3.2.2.2.1	YesNo
MCU 10.2	Does the IUT support Call Processing Priority at the user side of the T_B reference point?	0.2	MCU10	3.2.1.1.2, 3.2.2.2.2	YesNo
MCU 11	Does the IUT support Call Processing Priority at the network side?	0.1		3.2.1.2, 3.2.2.1	YesNo

6.4.1 Major Capability at UNI (MCU)

Comments:
O.1: At least one of MCU 10 or MCU 13 must be supported
O.2: At least one of MCU 11 or MCU 12 must be supported
Note 1: If point-to-multipoint is supported at the UNI
Note 2 : If switched VPCs are supported

Item Number	Item Description	Status	Condition for status	Referenc e	Support
SIEU 1	Does the IUT support the Priority services information element with a Call Processing Priority level in the SETUP message as coded in section 2?	М		2	YesNo
SIEU 2	Does the IUT support the Priority services information element with a Call Processing Priority level in the ADD PARTY message as coded in section 2?	М	MCU2	2	YesNo
SIEP 3	Does the IUT support Q.2959 Priority information element in the SETUP message as specified in section 2?	М	MCU9	2	YesNo
SIEP 4	Does the IUT support Q.2959 Priority information element in the ADD PARTY message as specified in section 2?	М	MCU2 and MCU9	2	YesNo
SIEP 5	Does the IUT set the action indicator (bits 1-3 of octet 2) of the Priority services information element with a Call Processing Priority level to "discard information element and proceed" or "discard information element, proceed, and report status", and the IE instruction flag field (bit 5 of octet 2) to "follow explicit instructions"?	М		3.3	YesNo
Comment		I	l	l	1

6.4.2 Supported Information Elements at UNI (SIEU)

6.4.3 Signalling Procedures at the Originating Interface (SPOI)6.4.3.1 Signalling Procedures at the User Side of the S_B and Coincident S_B and T_BReference Points

Item	Item Description	Status	Condition	Referenc	Support
Number			for status	e	
SPOI 1	Is the IUT capable of sending a SETUP	М	MCU10.1	3.2.1.1.1	YesNo
	message to the network side that				
	includes a Priority services information				
	element with Call Processing Priority				
	level, and the origin field set to				
	"originating user"?				
SPOI 2	Is the IUT capable of sending an ADD	М	MCU2 and	3.2.1.1.1	YesNo
	PARTY message to the network side		MCU10.1		
	that includes a Priority services				
	information element with a Call				
	Processing Priority level as defined in				
	section 2, and the origin field set to				
	"originating user"?				
SPOI 3	Does the IUT set the Call Processing	Μ	MCU2 and	3.2.1.1.1	YesNo
	Priority level in the Priority services		MCU10.1		
	information element with Call				
	Processing Priority level in the ADD				
	PARTY message to be the same as those				
	signalled in the initial SETUP message?				
SPOI 4	Does the IUT send ADD PARTY	Μ	MCU2 and	3.2.1.1.1	YesNo
	without a Priority Services information		MCU10.1		
	element with a Call Processing Priority				
	level when the original SETUP did not				
	include the Priority services information				
	element ?				
SPOI 5	Is the IUT capable of including a Q.2959	М	MCU9 and	3.2.1.1.1	YesNo
	Priority information element as defined		MCU10.1		
	in section 2 in the SETUP message sent				
	to the network?				
SPOI 6	Is the IUT capable of including a Q.2959	М	MCU2 and	3.2.1.1.1	YesNo
	Priority information element as defined		MCU9 and		
	in section 2 in the ADD PARTY		MCU 10.1		
	message sent to the network?				
Comment		•			

6.4.3.2 Signalling Procedures at the User Side of the T_B Reference Point

Item Number	Item Description	Status	Condition for Status	Referenc e	Support
SPOI 7	For each type of message that supports Call Processing Priority feature, does the IUT process messages with higher Call Processing Priority level preferentially compared to messages of the same type	М	MCU5 and MCU10.2	3.2.1.1.2	YesNo

with lower Call Processing Priority				
	М	MCU10.2	3.2.1.1.2	Yes_No_
		MOULOO	20110	XZ XI
1 1	М	MCU10.2	3.2.1.1.2	YesNo
•				
If the IUT receives a setup request	0	MCU10.2	3.2.1.1.2	YesNo
containing a Priority services				
information element with Call				
Processing Priority level and with the				
• • •				
	01		22112	X7 X7
	01	MCU10.2	3.2.1.1.2	YesNo
level?				
If the IUT receives a setup request	01	MCU10.2	3.2.1.1.2	YesNo
containing a Priority services				
information element with Call				
Processing Priority level and with the				
origin field set to "network generated",				
-				
-				
-				
	01	MCU10.2	3 2 1 1 2	YesNo
	01	WIC010.2	3.2.1.1.2	105_110_
Processing Priority level and with the				
FIUCESSING FILCENT EVELANCE WITH THE				
origin field set to "network generated",				
	level?If no Call Processing Priority level isindicated in a call, does the IUT treatthis call as if it contains a CallProcessing Priority level equal to aconfigurable, network specific level.If the IUT receives a setup requestcontaining a Priority servicesinformation element with CallProcessing Priority level and with theorigin field set to "originating user",then if the call is progressed, does theIUT include the received Priorityservices information element with thereceived Call Processing Priority level inthe forwarded message?If the IUT receives a setup requestcontaining a Priority servicesinformation element with CallProcessing Priority level and with theorigin field set to "originating user",then if the call is progressed, is the IUTcapable of mapping the Call ProcessingPriority level in a way that preserves themeaning of the priority?If the IUT receives a setup requestcontaining a Priority servicesinformation element with CallProcessing Priority level and with theorigin field set to "network generated",is the IUT capable of discarding thereceived Priority services informationelement with Call Processing Prioritylevel?If the IUT receives a setup requestcontaining a Priority servicesinformation element with CallProcessing Priority level and with theorigin field set to "network generated",is the IUT cap	level?MIf no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.MIf the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element with the received Call Processing Priority level in the forwarded message?OIf the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level in a way that preserves the meaning of the priority?OIf the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the received Priority services information element with Call Processing Priority level?O1If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of replacing the received Priority services information element with Call Processing Priority level?O1If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of replacing the received	level?MIf no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.MMMCU10.2If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element with the received Call Processing Priority level in the forwarded message?OIf the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level in a way that preserves the meaning of the priority?O1MCU10.2If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the received Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of replacing the received Priority services information element with Call Processing Priority level in the forwarded message?O1MCU10.2If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level in the forwarde	level?MMCU10.23.2.1.1.2If no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.MMCU10.23.2.1.1.2If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element with the received Call Processing Priority level in the forwarded message?MMCU10.23.2.1.1.2If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level and with the origin field set to "reginsting user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the received Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the received Priority services information element with Call Processing Priority level in the forwarded message?O1MCU10.23.2.1.1.2If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level in the forwarded message with a new Priority services information element with Call Processing Priority level in the forwarded message?O1 <td< td=""></td<>

element with Call Processing Priority level unchanged in the forwarded message?MMCU10.2 and MCU113.2.1.2Yes_No_SPOI 14If the IUT forwarded SETUP message that did not contain a Priority services information element with a Call Processing Priority level, does the IUT not include any Priority services information element with a Call Processing Priority level in the forwarded message?MMCU10.2 and MCU113.2.1.2Yes_No_SPOI 15If the IUT forwarded a SETUP message contained a Priority services information element with a Call Processing Priority level, does the IUT include the same Priority services information element with a Call Processing Priority level in the forwarded message?MMCU10.2 and MCU113.2.1.2Yes_No_SPOI 15If the IUT forwarded a SETUP message contained a Priority services information element with a Call Processing Priority level, does the IUT include the same Priority services information element with a Call Processing Priority level in the forwarded message?MMCU10.2 and MCU113.2.1.2 Yes_No_SPOI 16If the IUT receives a setup request containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded message?MMCU10.23.2.1.1.2Yes_No_						
level unchanged in the forwarded message?MMCU10.2 and MCU113.2.1.2Yes_No_SPOI 14If the IUT forwarded SETUP message that did not contain a Priority services information element with a Call Processing Priority level, does the IUT not include any Priority services information element with a Call Processing Priority level in the forwarded message?MMCU10.2 and MCU113.2.1.2Yes_No_SPOI 15If the IUT forwarded a SETUP message contained a Priority services information element with a Call Processing Priority level, does the IUT include the same Priority services information element with a Call Processing Priority level in the forwarded message?MMCU10.2 and MCU113.2.1.2Yes_No_SPOI 16If the IUT receives a setup request containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded message?MMCU2 and MCU10.23.2.1.1.2Yes_No_SPOI 17If the IUT receives an		received Priority services information				
message?MSPOI 14If the IUT forwarded SETUP message that did not contain a Priority services information element with a Call Processing Priority level, does the IUT not include any Priority services information element with a Call Processing Priority level in the forwarded message?MMCU10.2 and MCU113.2.1.2Yes_No_SPOI 15If the IUT forwarded a SETUP message contained a Priority services information element with a Call Processing Priority level, does the IUT include the same Priority services information element with a Call Processing Priority level in the forwarded message?MMCU10.2 and MCU113.2.1.2Yes_No_SPOI 15If the IUT processing Priority level, does the IUT include the same Priority services a setup request containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded message?MMCU2 and MCU10.23.2.1.1.2Yes_No_SPOI 17If the IUT receives an add party request containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded message?MMCU2 and MCU10.23.2.1.1.2Yes_No_		ę ;				
SPOI 14 If the IUT forwarded SETUP message that did not contain a Priority services information element with a Call Processing Priority level, does the IUT not include any Priority services information element with a Call Processing Priority level in the forwarded message? M MCU10.2 3.2.1.2 Yes_No_ SPOI 15 If the IUT forwarded a SETUP message contained a Priority services information element with a Call Processing Priority level in the forwarded message? M MCU10.2 3.2.1.2 Yes_No_ SPOI 15 If the IUT forwarded a SETUP message contained a Priority services information element with a Call Processing Priority level in the forwarded message? M MCU10.2 3.2.1.2 Yes_No_ SPOI 16 If the IUT receives a setup request containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element and the IUT supports transport of the Q.2959 Priority information element and the IUT supports transport of the Q.2959 Priority information element and the IUT include the received Q.2959 Priority information element and the IUT include the received Q.2959 Priority information element and the IUT include the received Q.2959 Priority information element unaltered in the forwarded message? M MCU10.2 3.2.1.1.2						
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		forwarded message?				
O.1: At least one of SPOI 11, SPOI 12 or SPOI 13 must be supported.	Comments	S:				
**	O.1: At lea	ast one of SPOI 11, SPOI 12 or SPOI 13 mu	st be sup	ported.		

6.4.3.3 Signalling Procedures at the Network Side

Item Number	Item Description	Status	Condition for Status	Referenc e	Support
SPOI 18	If the IUT receives a SETUP message containing a Priority services information element with a Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element with Call Processing Priority level in the forwarded setup indication?	М	MCU11	3.2.1.2	YesNo
SPOI 19	If the IUT receives a SETUP message	М	MCU8 and	3.2.1.2	YesNo

	containing a Priority services information element with a Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level before including the received Priority services information element in the forwarded setup indication?		MCU11		
SPOI 20	If the IUT receives a Priority services information element with Call Processing Priority level, then if the call is progressed, is the IUT capable of defaulting the Call Processing Priority level to the user's highest allowed level if the user exceeds the highest allowed level?	М	MCU11	3.2.1.2	Yes_No_
SPOI 21	If the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the Priority services information element with Call Processing Priority level and processing the message as if the Priority services information element with a Call Processing Priority level were not present?	0.1	MCU11	3.2.1.2	YesNo
SPOI 22	If the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of replacing the Priority services information element with Call Processing Priority level in the forwarded message with a new Priority services information element with Call Processing Priority level (with the origin field set to "network generated")?	0.1	MCU11	3.2.1.2	YesNo
SPOI 23	If the IUT receives a SETUP message containing a Priority services information element with a Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of forwarding the received Priority services information element with a Call Processing Priority level in the forwarded message?	0.1	MCU11	3.2.1.2	Yes_No_
SPOI 24	If the IUT receives a SETUP message for a call that does not contain a Priority	М	MCU7 and MCU11	3.2.1.2	YesNo

		1	1	1	
	services information element with Call				
	Processing Priority level, then if the call				
	is progressed, is the IUT capable of				
	including a Priority services information				
	element with Call Processing Priority				
	level and with the origin field set to				
	"network generated" in the forwarded				
	setup indication?				
SPOI 25	For each type of message that supports	Μ	MCU11	3.2.1.2	Yes_No_
	Call Processing Priority feature, does the				
	IUT process messages with higher Call				
	Processing Priority level preferentially				
	compared to messages of the same type				
	with lower Call Processing Priority				
	level?				
SPOI 26	If no Call Processing Priority level is	Μ	MCU11	3.2.1.2	Yes_No_
	indicated in a call, does the IUT treat				
	this call as if it contains a Call				
	Processing Priority level equal to a				
	configurable, network specific level.				
SPOI 27	If the IUT forwarded a Priority services	Μ	MCU2 and	3.2.1.2	YesNo
	information element with a Call		MCU11		
	Processing Priority level in the initial				
	setup indication, does the IUT include				
	the same Priority services information				
	element with a Call Processing Priority				
	level in all subsequent add party				
	indications for that call?				
SPOI 28	If the IUT did not forward a Priority	Μ	MCU2 and	3.2.1.2	Yes_No_
	services information element with a Call		MCU11		
	Processing Priority level in the initial				
	setup indication, does the IUT not				
	include Priority services information				
	element with Call Processing Priority				
	level in all subsequent add party				
apor to	indications for that call?				
SPOI 29	If the IUT receives a SETUP message	М	MCU9 and	3.2.1.2	Yes_No_
	containing a Q.2959 Priority		MCU11		
	information element and the IUT				
	supports transport of the Q.2959 Priority				
	information element, then if the call is				
	progressed, does the IUT include the				
	received Q.2959 Priority information				
	element unaltered in the forwarded setup				
apor co	indication?			0.0.1.5	X7 X7
SPOI 30	If the IUT receives an ADD PARTY	Μ	MCU2 and	3.2.1.2	Yes_No_
	message containing a Q.2959 Priority		MCU9 and		
	information element and the IUT		MCU11		
	supports transport of the Q.2959 Priority				
	information element, then if the call is				
	progressed, does the IUT include the				
	received Q.2959 Priority information				
	element unaltered in the forwarded add				

	party indication?							
Comments:								
O.1: At least one of SPOI 21, SPOI 22 or SPOI 23 must be supported								
		-	-					

6.4.4 Signalling Procedures at the Destination Interface (SPDI) 6.4.4.1 Signalling Procedures at the Network Side

Item Number	Item Description	Status	Condition for Status	Referenc e	Support
SPDI 1	For each type of message that supports Call Processing Priority feature, does the IUT process messages with higher Call Processing Priority level preferentially compared to messages of the same type with lower Call Processing Priority level?	М	MCU11	3.2.2.1	YesNo
SPDI 2	If no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.	М	MCU11	3.2.2.1	Yes_No_
SPDI 3	If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element in the forwarded message?	М	MCU11	3.2.2.1	YesNo
SPDI 4	If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level in a way that preserves the meaning of the priority level ?	М	MCU8 and MCU11	3.2.2.1	YesNo
SPDI 5	If the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the Priority services information element?	0.1	MCU11	3.2.2.1	Yes No
SPDI 6	If the IUT when acting as the network receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network	O.1	MCU11	3.2.2.1	YesNo

	generated", is the IUT capable of				
	replacing the Priority services				
(DD) -	information element?	0 f			
SPDI 7	If the IUT receives a setup request	0.1	MCU11	3.2.2.1	YesNo
	containing a Priority information				
	element with Call Processing Priority				
	and with the origin field set to "network				
	generated", then if the call is progressed,				
	is the IUT capable of including the				
	received Priority information element in				
CDDLO	the forwarded message?			2 2 2 1	XZ NI
SPDI 8	If the IUT forwarded a Priority services	М	MCU2 and	3.2.2.1	YesNo
	information element with a Call		MCU11		
	Processing Priority level in the initial				
	SETUP message, does the IUT include				
	the same Priority services information element with a Call Processing Priority				
	level in all subsequent ADD PARTY				
	message for that call?				
SPDI 9	If the IUT does not forward a Priority	М	MCU2 and	3.2.2.1	Yes_No_
51 51 7	services information element with a Call	111	MCU11	5.2.2.1	
	Processing Priority level in the initial		meen		
	SETUP message, does the IUT not				
	include Priority services information				
	element with Call Processing Priority				
	level in all subsequent ADD PARTY				
	message for that call?				
SPDI 10	If the IUT receives a setup request	М	MCU9 and	3.2.2.1	YesNo
	containing a Q.2959 Priority		MCU11		
	information element and the IUT				
	supports transport of the Q.2959 Priority				
	information element, then if the call is				
	progressed, does the IUT include the				
	received Q.2959 Priority information				
	element unaltered in the forwarded				
	message?				
SPDI 11	If the IUT receives an add party request	М	MCU2 and	3.2.2.1	Yes_No_
	message containing a Q.2959 Priority		MCU9 and		
	information element and the IUT		MCU11		
	supports transport of the Q.2959 Priority				
	information element, then if the call is				
	progressed, does the IUT include the				
	received Q.2959 Priority information element unaltered in the forwarded				
Commert	message?				
Comments	s: ast one of SPDI 5, SPDI 6 or SPDI 7 must be		tad		
0.1. At lea	ast one of SEDI 5, SEDI 0 OF SEDI / MUSL D	= suppor	icu.		

SPDI 12	For each type of message that supports	М	MCU10.1	3.2.2.2.1	YesNo
	Call Processing Priority feature, does the				

	IUT process messages with higher Call Processing Priority level preferentially compared to messages of the same type with lower Call Processing Priority level?				
SPDI 13	If no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.	М	MCU10.1	3.2.2.2.1	Yes_No_
Comments	::				

6.4.4.3 Signalling Procedures at the User Side of the T_B Reference Point

Item	Item Description	Status	Condition	Referenc	Support
Number			for Status	e	
SPDI 14	If the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element in the forwarded setup indication?	М	MCU10.2	3.2.2.2.2	YesNo
SPDI 15	If the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level before including the received Priority services information element in the forwarded setup indication?	0	MCU10.2	3.2.2.2.2	YesNo
SPDI 16	If the IUT receives a Priority services information element with Call Processing Priority level, then if the call is progressed, is the IUT capable of defaulting the Call Processing Priority level to the users highest allowed level if the user exceeds the highest allowed Call Processing Priority level?	М	MCU10.2	3.2.2.2.2	YesNo
SPDI 17	If the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the Priority services information element	01	MCU10.2	3.2.2.2.2	YesNo

	with Call Processing Driority layer and				1
	with Call Processing Priority level and processing the message as if the Priority				
	services information element were not				
	present?				
SPDI 18	If the user side of the IUT receives a	01	MCU10.2	3.2.2.2.2	YesNo
51 01 10	SETUP message containing a Priority		1010010.2	3.2.2.2.2	105_110_
	services information element with Call				
	Processing Priority level and with the				
	origin field set to "network generated",				
	is the IUT capable of replacing the				
	Priority services information element				
	with Call Processing Priority level with				
	a new Priority services information				
	element (with the origin field set to				
	"network generated")?				
SPDI 19	If the IUT receives a SETUP message	01	MCU10.2	3.2.2.2.2	Yes_No_
	containing a Priority services			5.2.2.2.2	100_100_
	information element with a Call				
	Processing Priority level and with the				
	origin field set to "network generated",				
	is the IUT capable of forwarding the				
	received Priority services information				
	element with a Call Processing Priority				
	level in the forwarded message?				
SPDI 20	If the IUT receives a SETUP message	М	MCU7 and	3.2.2.2.2	YesNo
	for a call that does not contain a Priority		MCU10.2		
	services information element with Call				
	Processing Priority level, then if the call				
	is progressed, is the IUT capable of				
	including a Priority services information				
	element with Call Processing Priority				
	level and with the origin field set to				
	"network generated" in the forwarded				
	setup indication?				
SPDI 21	For each type of message that supports	М	MCU5 and	3.2.2.2.2	YesNo
	Call Processing Priority feature, does the		MCU10.2		
	IUT process messages with higher Call				
	Processing Priority level preferentially				
	compared to messages of the same type				
	with lower Call Processing Priority				
	level?				
SPDI 22	If no Call Processing Priority level is	Μ	MCU10.2	3.2.2.2.2	Yes_No_
	indicated in a call, does the IUT treat				
	this call as if it contains a Call				
	Processing Priority level equal to a				
(IDDI CC	configurable, network specific level.			22222	
SPDI 23	If the IUT forwards a Priority services	M	MCU10.2	3.2.2.2.2	YesNo
	information element with a Call		and		
	Processing Priority level in the initial		MCU11		
	setup indication, does the IUT include				
	the same Priority services information				
	element with a Call Processing Priority				
	level in all subsequent add party				

	indications for that call?				
SPDI 24	If the IUT does not forward a Priority services information element with a Call Processing Priority level in the initial setup indication, does the IUT not include Priority services information element with Call Processing Priority level in all subsequent add party indications for that call?	М	MCU10.2 and MCU11	3.2.2.2.2	YesNo
SPDI 25	If the IUT receives a SETUP message containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959 Priority information element, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded setup indication?	0	MCU9 and MCU10.2	3.2.2.2.2	Yes_No_
SPDI 26	If the IUT receives an ADD PARTY message containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959 Priority information element, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded add party indication?	0	MCU2 and MCU9 and MCU10.2	3.2.2.2.2	YesNo
Comments					
0.1: At lea	ast one of SPDI 17, SPDI 18 or SPDI 19 mu	st be sup	ported.		

7 Protocol Implementation Conformance Statement (PICS) for the PNNI 1.1 Component of Call Processing Priority feature

Note to the editor: to be changed as outlined in the UNI section.

7.1 Introduction

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

7.1.1 Scope

This document provides the PICS proforma for the PNNI 1.1 component of Call Processing Priority capability, defined in [1] in compliance with the relevant requirements, and in accordance with the relevant guidelines, given in ISO/IEC 9646-7. In most cases, statements contained in notes in the specification, which were intended as information, are not included in the PICS.

7.1.2 Normative References

[1] Call Processing Priority Version 1, af-cs-0182.000, ATM Forum Technical Committee, March 2002.

- [2] 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)).
- [3] ISO/IEC 9646-7: 1995, Information technology Open systems interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements (See also ITU Recommendation X.296 (1995)).
- [4] ISO/IEC 9646-3:1998, Information technology Open systems interconnection Conformance testing methodology and interconnection Part 3: The Tree and Tabular Combined Notation (TTCN) (See also ITU telecommunication X.292 (1998)).

7.1.3 Definitions

Terms defined in [1].

Terms defined in ISO/IEC 9646-1 and in ISO/IEC 9646-7.

In particular, the following terms defined in ISO/IEC 9646-1 apply:

Protocol Implementation Conformance Statement (PICS): A statement made by the supplier of an implementation or system, stating which capabilities have been implemented for a given protocol. **PICS proforma:** 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.

7.1.4 Acronyms

- ASN.1 Abstract Syntax Notation One
- ATS Abstract Test Suite
- IUT Implementation Under Test
- PICS Protocol Implementation Conformance Statement
- SUT System Under Test

7.1.5 Conformance

The PICS does not modify any of the requirements detailed in Call Processing Priority Capability. In case of apparent conflict between the statements in the base specification and in the annotations of "M" (mandatory) and "O" (optional) in the PICS, the text of the base specification takes precedence. The supplier of a protocol implementation, which is claimed to conform to the PNNI 1.1 component of Call Processing Priority, 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.

7.2 Identification of the Implementation

Identification of the Implementation Under Test (IUT) and system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different. A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

7.2.1 Date of Statement

7.2.2 Implementation Under Test (IUT) Identification

IUT Name: ____

IUT Version: _____

7.2.3 System Under Test (SUT) Identification

SUT Name: _____

Hardware Configuration: _____

Operating System: _____

7.2.4 Product Supplier

Name:	
Address:	
Telephone Number:	
Facsimile Number:	
Email Address:	
Additional Information:	

7.2.5 Client

Name:	 	
Address:		
Telephone Number:		
Facsimile Number:		
Email Address:		
Additional Information:		

7.2.6 PICS Contact Person

(A person to contact if there are any queries concerning the content of the PICS)

Name:	
Facsimile Number:	
Email Address:	
Additional Information:	

Identification of the Protocol Specification

This PICS proforma applies to the following specification:

[1] Call Processing Priority Version 1, af-cs-0xxx.000, ATM Forum Technical Committee, 2002.

7.3 PICS Proforma

7.3.1 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.

7.3.2 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.

The following notations, defined in ISO/IEC 9647-7, are used for the support column:

- Yes supported by the implementation
- No not supported by the implementation

The following notations, defined in ISO/IEC 9647-7, are used for the status column:

- M mandatory the capability is required to be supported.
- O optional the capability may be supported or not.
- O.i qualified optional for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection is defined immediately following the table.

A supplier may also provide additional information, categorised as exceptional or supplementary information. These additional information should be provided as items labelled 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 labelled 'Reference' gives a pointer to sections of the protocol specification for which the PICS Proforma is being written.

7.4 PICS for the support Call Processing Priority at the PNNI

Item Number	Item Description	Status	Condition for status	Reference	Support
MCP 1	Does the IUT support Call Processing Priority for point-to-point calls?	М		4	YesNo
MCP 2	Does the IUT support Call Processing Priority for point-to-multipoint calls?	М		4	YesNo
MCP 3	Is the IUT capable of generating a Priority services information element with Call Processing Priority level and with the origin field set to "network generated"?	0	MCP5	4	YesNo
MCP 4	Does the IUT support the end to end transport of Q.2959 Priority information element across the network ?	0		4	Yes_No_
MCP 5	Does the IUT support Call Processing Priority at the Inter-domain PNNI interface?	0		4	Yes_No_
MCP 6	Does the IUT support the association of a Call Processing Priority level with calls for switched virtual channel connections (SVCC)?	M		4	YesNo
MCP 7	Does the IUT support the association of a Call Processing Priority level with calls for switched virtual path connections (SVPC)?	M		4	YesNo
MCP 8	Does the IUT differentiate call's access to call processing resources using Call Processing Priority level in signalling messages?	М		4	Yes_No_
MCP 9	Does the IUT support forwarding Priority services information element with Call Processing Priority level?	М		4	Yes_No_
MCP 10	Does the IUT support mapping of the Call Processing Priority level at administrative boundaries?	0	MCP5	4	Yes_No_
Comments	3:				

7.4.1 Major Capability at PNNI (MCP)

7.4.2 Supported Information Elements at PNNI (SIEP)

Item	Item Description	Status	Condition for status	Referenc e	Support
SIEP 1	Does the IUT support Call Processing Priority level in the Priority services information element in the SETUP message as coded in section 2?	М		2	Yes_ No_

SIEP 2	Does the IUT support a Call Processing Priority in the Priority services information element in the ADD PARTY message as coded in section 2?	М		2	YesNo
SIEP 3	Does the IUT support Q.2959 Priority information element in the SETUP message as specified in section 2?	M	MCP4	2	YesNo
SIEP 4	Does the IUT support Q.2959 Priority information element in the ADD PARTY message as specified in section 2?	М	MCP2 and MCP4	2	YesNo
SIEP 5	Does the IUT set the action indicator (bits 1-3 of octet 2) of the Priority services information element with Call Processing Priority level to "discard information element and proceed" or "discard information element, proceed, and report status", the IE instruction flag field (bit 5 of octet 2) to "follow explicit instructions" and the pass along request field (bit 4 of octet 2) to "pass along request"?	М		4.3	YesNo
Comment	s				

Item	Item Description	Stat us	Condition for status	Reference	Support
SPIP 1	For each type of message that supports Call Processing Priority feature, does the IUT process messages with higher Call Processing Priority level preferentially compared to messages of the same type with lower Call Processing Priority level?	М		4.2.1.1	YesNo
SPIP 2	If no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.	М		4.2.1.1	YesNo
SPIP 3	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level, then if the call is progressed, does the IUT include the received Priority services information element in the forwarded message?	М		4.2.1.1	YesNo
SPIP 4	If the preceding side of the IUT receives an add party request containing a Priority services information element with Call Processing Priority level, then if the party is progressed, does the IUT include the received Priority services information element in the forwarded message?	М		4.2.1.1	YesNo
SPIP 5	If the IUT receives a setup request containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the Priority information element in the forwarded message?	М	MCP4	4.2.1.1	YesNo
SPIP 6	If the IUT receives a add party request containing a Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the Priority information element in the forwarded message?	М	MCP4	4.2.1.1	YesNo
SPIP 7	If the succeeding side of the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level, then if the call is progressed, does the	М		4.2.1.2	YesNo

7.4.3 Signalling Procedures for Intra-Domain PNNI (SPIP)

	IUT include the received Priority				
	services information element in the				
	forwarded setup indication?				
SPIP 8	For each type of message that supports	Μ		4.2.1.2	YesNo
	Call Processing Priority feature, does				
	the IUT process messages with higher				
	Call Processing Priority level				
	preferentially compared to messages of				
	the same type with lower Call				
	Processing Priority level?				
SPIP 9	If no Call Processing Priority level is	Μ		4.2.1.2	Yes_No_
	indicated in a call, does the IUT treat				
	this call as if it contains a Call				
	Processing Priority level equal to a				
	configurable, network specific level.				
SPIP 10	If the succeeding side of the IUT does	Μ		4.2.1.2	YesNo
	not forward a Priority services				
	information element with a Call				
	Processing Priority level in the initial				
	setup indication, does the IUT not				
	include Priority services information				
	element with Call Processing Priority				
	level in all subsequent add party				
	indications for that call?				
SPIP 11	If the succeeding side of the IUT	М		4.2.1.2	YesNo
	forwarded a Priority services				
	information element with a Call				
	Processing Priority level in the initial				
	setup indication, does the IUT include				
	the same Priority services information				
	element with a Call Processing Priority				
	level in all subsequent add party				
	indications for that call?				
SPIP 12	If the succeeding side of the IUT	М	MCP4	4.2.1.2	Yes No
	receives a SETUP message containing				
	a Priority information element and the				
	IUT supports transport of the Q.2959				
	Priority information element, then if				
	the call is progressed, does the IUT				
	include the received Priority				
	information element in the forwarded				
	setup indication ?				
SPIP 13	If the succeeding side of the IUT	М	MCP4	4.2.1.2	YesNo
	receives an ADD PARTY message				
	containing a Priority information				
	element and the IUT supports transport				
	of the Q.2959 Priority information				
	element, then if the call is progressed,				
	does the IUT include the received				
	Priority information element in the				
	forwarded add party indication ?				
	1 IOFWARDED AND DARLY INDICATION 2				

Item	Item Description	Stat us	Condition for status	Reference	Support
SPIP 14	For each type of message that supports Call Processing Priority feature, does the IUT process messages with higher Call Processing Priority level preferentially compared to messages of the same type with lower Call Processing Priority level?	М		4.2.2.1	YesNo
SPIP 15	If no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.	М		4.2.2.1	YesNo
SPIP 16	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element in the forwarded message?	М		4.2.2.1	YesNo
SPIP 17	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level in a way that preserves the meaning of the priority before including the received Priority services information element in the forwarded message?	0		4.2.2.1	YesNo
SPIP 18	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the Priority services information element with Call Processing Priority?	0.1		4.2.2.1	YesNo
SPIP 19	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of replacing the Priority services information element with Call Processing Priority level with a new Priority services information element (with the origin field set to "network generated")?	O.1		4.2.2.1	YesNo
SPIP 20	If the preceding side of the IUT receives a setup request containing a Priority services information element with a Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of forwarding the received Priority services information element with a Call Processing Priority level in the forwarded message?	0.1		4.2.2.1	YesNo

7.4.4 Call Processing Priority feature for Inter-Domain PNNI

SPIP 21	If the preceding side of the IUT forwarded a Priority services information element with a Call Processing Priority level in the initial SETUP message, does the IUT include the same Priority services information element with a Call Processing Priority level in all subsequent ADD PARTY messages for that call?	M		4.2.2.1	Yes_No_
SPIP 22	If the preceding side of the IUT did not forward a Priority services information element with a Call Processing Priority level in the initial SETUP message, does the IUT not include Priority services information element with Call Processing Priority level in all subsequent ADD PARTY message for that call?	М		4.2.2.1	Yes_No_
SPIP 23	If the preceding side of the IUT receives a setup request containing a Q.2959 Priority information element and the preceding side supports transport of the Q.2959 Priority information element, then if the call is progressed, does the IUT include the received Priority information element in the forwarded message ?	М	MCP4	4.2.2.1	YesNo
SPIP 24	If the preceding side of the IUT receives an add party request containing a Q.2959 Priority information element and the preceding side supports transport of the Q.2959 Priority information element, then if the call is progressed, does the IUT include the received Priority information element in the forwarded message?	М	MCP4	4.2.2.1	YesNo
SPIP 25	If the succeeding side of the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element in the forwarded setup indication?	М		4.2.2.2	YesNo
SPIP 26	If the succeeding side of the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level in a way that preserves the meaning of the priority before including the received Priority services information element in the forwarded setup indication?	0	MCP10	4.2.2.2	YesNo
SPIP 27	If the IUT receives a Priority services information element with Call Processing Priority level, then if the call is progressed, is the IUT capable of defaulting the Call Processing Priority level to the user's highest allowed level if the user exceeds the highest allowed level?	М		4.2.2.2	YesNo
SPIP 28	If the succeeding side of the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and	0.2		4.2.2.2	Yes_No_

			i.	1	
	with the origin field set to "network generated", is				
	the IUT capable of discarding the Priority services				
	information element with Call Processing Priority				
	level and processing the message as if the Priority				
	services information element with Call Processing				
	Priority level was not present?				
SPIP 29	If the succeeding side of the IUT receives a SETUP	0.2		4.2.2.2	YesNo
	message containing a Priority services information				
	element with Call Processing Priority level and				
	with the origin field set to "network generated", is				
	the IUT capable of replacing the Priority services				
	information element with Call Processing Priority				
	level with a new Priority services information				
	element with Call Processing Priority level (with				
	the origin field set to "network generated")?				
SPIP 30	If the succeeding side of the IUT receives a SETUP	0.2		4.2.2.2	Yes_No_
511 00	message containing a Priority services information	0.2			100_100_
	element with Call Processing Priority level and				
	with the origin field set to "network generated", is				
	the IUT capable forwarding the received Priority				
	services information element with Call Processing				
	Priority level unchanged?				
SPIP 31	If the received SETUP message at the succeeding	М		4.2.2.2	YesNo
SFIF 51	side of the IUT for a call does not contain a Priority	IVI		4.2.2.2	1 es No
	*				
	services information element with Call Processing				
	Priority level, then if the call is progressed, is the				
	IUT capable of including a Priority services				
	information element with Call Processing Priority				
	level and with the origin field set to "network				
CDID 22	generated" before forwarding the call/connection?			4.2.2.2	X7 X7
SPIP 32	For each type of message that supports Call	М		4.2.2.2	Yes_No_
	Processing Priority feature, does the IUT process				
	messages with higher Call Processing Priority level				
	preferentially compared to messages of the same				
	type with lower Call Processing Priority level?				
SPIP 33	If no Call Processing Priority level is indicated in a	Μ		4.2.2.2	Yes_No_
	call, does the IUT treat this call as if it contains a				
	Call Processing Priority level equal to a				
	configurable, network specific level.		-		
SPIP 34	If the IUT forwarded a Priority services information	Μ		4.2.2.2	Yes_No
	element with a Call Processing Priority level in the				
	initial setup indication, does the IUT include the				
	same Priority services information element with a				
	Call Processing Priority level in all subsequent add				
	party indications for that call?				
SPIP 35	If the IUT did not forward a Priority services	Μ		4.2.2.2	Yes_No
	information element with a Call Processing Priority				
	level in the initial setup indication, does the IUT				
	not include Priority services information element				
	with Call Processing Priority level in all subsequent				
	add party indications for that call?				
SPIP 36	If the IUT receives a SETUP message containing a	Μ	MCP4	4.2.2.2	Yes_No
	Q.2959 Priority information element and the IUT				
				1	1

	supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded indication?				
SPIP 37	If the IUT receives an add party request containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded indication?	М	MCP4	4.2.2.2	YesNo
O.1: At least one of SPIP 18, SPIP 19 or SPIP 20 must be supported. O.2: At least one of SPIP 28, SPIP 29 or SPIP 30 must be supported.					

8 Protocol Implementation Conformance Statement (PICS) for the AINI Component Call Processing Priority feature

Note to the editor: to be changed as outlined in the UNI section.

8.1 Introduction

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

8.1.1 Scope

This document provides the PICS proforma for the AINI component of Call Processing Priority capability, defined in [1] in compliance with the relevant requirements, and in accordance with the relevant guidelines, given in ISO/IEC 9646-7. In most cases, statements contained in notes in the specification, which were intended as information, are not included in the PICS.

8.1.2 Normative References

- [1] Call Processing Priority Version 1, af-cs-0182.000, ATM Forum Technical Committee, March 2002.
- [2] 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)).
- [3] ISO/IEC 9646-7: 1995, Information technology Open systems interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements (See also ITU Recommendation X.296 (1995)).
- [4] ISO/IEC 9646-3:1998, Information technology Open systems interconnection Conformance testing methodology and interconnection Part 3: The Tree and Tabular Combined Notation (TTCN) (See also ITU telecommunication X.292 (1998)).

8.1.3 Definitions

Terms defined in [1] Terms defined in ISO/IEC 9646-1 and in ISO/IEC 9646-7 In particular, the following terms defined in ISO/IEC 9646-1 apply: **Protocol Implementation Conformance Statement (PICS):** A statement made by the supplier of an implementation or system, stating which capabilities have been implemented for a given protocol. **PICS proforma:** 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.

8.1.4 Acronyms

- ASN.1 Abstract Syntax Notation One
- ATS Abstract Test Suite
- IUT Implementation Under Test
- PICS Protocol Implementation Conformance Statement
- SUT System Under Test

8.1.5 Conformance

The PICS does not modify any of the requirements detailed Call Processing Priority capability specification. In case of apparent conflict between the statements in the base specification and in the annotations of "M" (mandatory) and "O" (optional) in the PICS, the text of the base specification takes precedence.

The supplier of a protocol implementation, which is claimed to conform to the AINI component of Call Processing Priority capability, 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.

8.2 Identification of the Implementation

Identification of the Implementation Under Test (IUT) and system in which it resides (the System Under Test (SUT)) should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different. A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

8.2.1 Date of Statement

8.2.2 Implementation Under Test (IUT) Identification

IUT Name: _____

IUT Version: _____

8.2.3 System Under Test (SUT) Identification

SUT Name: _____

Hardware Configuration: _____

Operating System: _____

8.2.4 Product Supplier

Name:	 	 	
Address:			
Telephone Number:			
Facsimile Number:			
Email Address:			
Additional Information:			

8.2.5 Client

Name:	 	
Address:		
Telephone Number:		
Facsimile Number:		
Email Address:		
Additional Information:		

8.2.6 PICS Contact Person

0

(A person to contact if there are any queries concerning the content of the PICS)

Name:
Felephone Number:
Facsimile Number:
Email Address:
Additional Information:

Identification of the Protocol Specification

This PICS proforma applies to the following specification:

[1] Call Processing Priority capability, af-cs-0xxx.000, ATM Forum Technical Committee, 2002.

8.3 PICS Proforma

8.3.1 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.

8.3.2 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.

The following notations, defined in ISO/IEC 9647-7, are used for the support column:

Yes supported by the implementation

No not supported by the implementation

The following notations, defined in ISO/IEC 9647-7, are used for the status column:

- M mandatory the capability is required to be supported.
- O optional the capability may be supported or not.
- O.i qualified optional for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection is defined immediately following the table.

A supplier may also provide additional information, categorised as exceptional or supplementary information. These additional information should be provided as items labelled 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 labelled 'Reference' gives a pointer to sections of the protocol specification for which the PICS Proforma is being written.

8.4 PICS for the support of Call Processing Priority at the AINI *8.4.1 Major Capability at AINI (MCA)*

Item Number	Item Description	Status	Condition for status	Referenc e	Support
MCA 1	Does the IUT support Call Processing Priority for point-to-point calls?	М		1.1, 5	YesNo
MCA 2	Does the IUT support Call Processing Priority for point-to-multipoint calls?	М		1.1, 5	YesNo
MCA 3	Is the IUT capable of generating a Priority services information element with Call Processing Priority level and with the origin field set to "network generated"?	0		1.1, 5.1.2	Yes_ No_
MCA 4	Does the IUT support the end to end transport of Q.2959 Priority information element across the network?	0		1.1	Yes_No_
MCA 5	Does the IUT support the association of a Call Processing Priority level with calls for switched virtual channel connections (SVCC)?	М		5	YesNo
MCA 6	Does the IUT support the association of a Call Processing Priority level with calls for switched virtual path connections (SVPC)?	М		5	YesNo
MCA 7	Does the IUT differentiate call's access to call processing resources using Call Processing Priority level in signalling messages?	М		5	YesNo
MCA 8	Does the IUT support forwarding Priority services information element with Call Processing Priority level?	М		5	Yes_No_
MCA 9	Does the IUT support mapping of the Call Processing Priority level at administrative boundaries?	0		5	Yes_No_

8.4.2 Supported Information Elements at AINI (SIEA)

Item	Item Description	Status	Condition	Referenc	Support
			for status	e	
SIEA 1	Does the IUT support Call Processing Priority level in the Priority services information element in the SETUP message as coded in section 2?	М		2	YesNo
SIEA 2	Does the IUT support a Call Processing Priority level in the Priority services information element in the ADD	М		2	YesNo

	PARTY message as coded in section 2?				
SIEA 3	Does the IUT support Q.2959 Priority information element in the SETUP message as specified in section 2?	М	MCA4	2	YesNo
SIEA 4	Does the IUT support Q.2959 Priority information element in the ADD PARTY message as specified in section 2?	М	MCA4	2	Yes_No_
Comments					

8.4.3 Signalling Procedures for Call Processing Priority at AINI (SPBA)

Item	Item Description	Status	Conditi on for status	Referen ce	Support
SPBA 1	For each type of message that supports Call Processing Priority feature, does the IUT process messages with higher Call Processing Priority level preferentially compared to messages of the same type with lower Call Processing Priority level?	М		5.1.2	Yes_No_
SPBA 2	If no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.	М		5.1.2	Yes_No_
SPBA 3	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element in the forwarded message?	М		5.1.2	YesNo
SPBA 4	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level in a way that preserves the meaning of the priority before including the received Priority services information element in the forwarded message?	0	MCA9	5.1.2	YesNo
SPBA 5	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the Priority services information element?	O.1		5.1.2	Yes_No_
SPBA 6	If the preceding side of the IUT receives a setup request containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of replacing the Priority services	O.1		5.1.2	Yes_No_

	information element with Call Processing Priority level with a new Priority services information element (with the origin field set to "network				
SPBA 7	generated")? If the preceding side of the IUT receives a setup request containing a Priority services information element with a Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of forwarding the received Priority services information element with a Call Processing Priority level in the forwarded message?	0.1		5.1.2	Yes_No_
SPBA 8	If the IUT forwarded a Priority services information element with a Call Processing Priority level in the initial SETUP message, does the IUT include the same Priority services information element with a Call Processing Priority level in all subsequent ADD PARTY messages for that call?	М		5.1.2	Yes_No
SPBA 9	If the IUT did not forward a Priority services information element with a Call Processing Priority level in the initial SETUP message, does the IUT not include Priority services information element with Call Processing Priority level in all subsequent ADD PARTY message for that call?	М		5.1.2	Yes_No_
SPBA 10	If the preceding side of the IUT receives a setup request containing a Q.2959 Priority information element and the preceding side supports transport of the Q.2959 Priority information element, then if the call is progressed, does the IUT include the received Priority information element in the forwarded message ?	М	MCA4	5.1.2	Yes_ No_
SPBA 11	If the preceding side of the IUT receives an add party request containing a Q.2959 Priority information element and the preceding side supports transport of the Q.2959 Priority information element, then if the call is progressed, does the IUT include the received Priority information element in the forwarded message?	М	MCA4	5.1.2	Yes_ No_
SPBA 12	If the succeeding side of the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, does the IUT include the received Priority services information element in the forwarded setup indication?	М		5.1.2	YesNo
SPBA 13 SPBA 14	If the succeeding side of the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "originating user", then if the call is progressed, is the IUT capable of mapping the Call Processing Priority level before including the received Priority services information element in the forwarded setup indication? If the IUT receives a Priority services information	O		5.1.2	Yes_No_ Yes_No_

	element with Call Processing Priority level, then if the call is progressed, is the IUT capable of defaulting the Call Processing Priority level to the user's highest allowed level if the user exceeds the highest allowed level?			
SPBA 15	highest allowed level? If the succeeding side of the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of discarding the Priority services information element with Call Processing Priority	0.2	5.1.2	YesNo
SPBA 16	level and processing the message as if the Priority services information element with Call Processing Priority level were not present? If the succeeding side of the IUT receives a SETUP	0.2	5.1.2	YesNo
	message containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable of replacing the Priority services information element with Call Processing Priority level with a new Priority services information element (with the origin field set to "network generated")?			
SPBA 17	If the succeeding side of the IUT receives a SETUP message containing a Priority services information element with Call Processing Priority level and with the origin field set to "network generated", is the IUT capable forwarding the received Priority services information element with Call Processing Priority level unchanged?	O.2	5.1.2	Yes_No_
SPBA 18	If the received SETUP message at the succeeding side of the IUT for a call does not contain a Priority services information element with Call Processing Priority level, then if the call is progressed, is the IUT capable of including a Priority services information element with Call Processing Priority level and with the origin field set to "network generated" before forwarding the call/connection?	0	5.1.2	Yes_No_
SPBA 19	For each type of message that supports Call Processing Priority feature, does the IUT process messages with higher Call Processing Priority level preferentially compared to messages of the same type with lower Call Processing Priority level?	М	5.1.2	Yes_No_
SPBA 20	If no Call Processing Priority level is indicated in a call, does the IUT treat this call as if it contains a Call Processing Priority level equal to a configurable, network specific level.	М	5.1.2	Yes_No_
SPBA 21	If the IUT forwarded a Priority services information element with a Call Processing Priority level in the initial setup indication, does the IUT include the same Priority services information element with a Call Processing Priority level in all subsequent add party indications for that call?	М	5.1.2	Yes_No_

SPBA 22	If the IUT did not forward a Priority services information element with a Call Processing Priority level in the initial setup indication, does the IUT not include Priority services information element with Call Processing Priority level in all subsequent add party indications for that call?	М		5.1.2	Yes_No_
SPBA 23	If the IUT receives a SETUP message containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded indication?	М	MCA4	5.1.2	Yes_No_
SPBA 24	If the IUT receives an add party request containing a Q.2959 Priority information element and the IUT supports transport of the Q.2959, then if the call is progressed, does the IUT include the received Q.2959 Priority information element unaltered in the forwarded indication?	М	MCA4	5.1.2	Yes_No_
Comments O.1: At least one of SPBA 5, SPBA 6 or SPBA 7 must be supported. O.2: At least one of SPBA 15, SPBA 16 or SPBA 17 must be supported.					