



SIF-024-1999

(SIF Document #SIF-AR-9810-153R3)

SIF APPROVED DOCUMENT

WORK GROUP: SIF Architecture group

TITLE: ISO-8473-1:1994/X.233:1993 Profile for the SONET Data
Communication Network

DATE: May 13, 1999

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ABSTRACT:

This document proposes an updated profile of the ISO Connectionless Network Protocol based on the 1994 edition of the ISO-8473 standard. This profile focuses on ISO-8473-1 standard that defines the sub-network independent procedures and protocol functions.

This document has received the approval of the SONET Interoperability Forum (SIF).

April 29, 1999

Table of content

1. INTRODUCTION	3
1.1 BACKGROUND	3
1.2 CONSTRAINTS	3
1.3 PROPOSED AMENDMENTS.....	3
1.4 REFERENCES.....	4
1.5 ABBREVIATIONS	4
1.6 REVISION HISTORY	4
2. ISO-8473-1 PICS	5
2.1 IDENTIFICATION	5
2.1.1 <i>Implementation identification</i>	5
2.1.2 <i>Protocol summary</i>	5
2.2 MAJOR CAPABILITIES.....	6
2.3 END SYSTEMS.....	6
2.3.1 <i>Supported functions</i>	6
2.3.2 <i>Supported PDUs</i>	7
2.3.3 <i>Supported parameters</i>	8
2.3.4 <i>timers</i>	12
2.4 INTERMEDIATE SYSTEMS	13
2.4.1 <i>Supported functions</i>	13
2.4.2 <i>Supported PDUs</i>	14
2.4.3 <i>Supported parameters</i>	15
2.4.4 <i>timers</i>	19
3. REMAINING ISSUES	20

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April 29, 1999

1. Introduction

1.1 Background

At the time of issue, the current CLNP profile selected for supporting OAM&P of SONET equipment is defined in [1]. It was originally designed to Profile the traffic of OSI Transport over CLNS and TID Address Resolution Protocol, which justified that some refined functions of CLNP were stripped to lighten the Network layer requirements.

As the SONET Data Communication Network grows larger and more complex, network administrators and craft persons would like to have administrative means to discover the network topology or simply assess the accessibility of some parts of the DCN.

1.2 Constraints

The editor has constrained the document as follows:

- the proposed profile shall be a superset of the CLNP profile contained in section C.4 of [1];
- procedures/functions that are not (or barely) compatible with ISO-10589 or ISO-9542 must not allowed by the profile;
- new procedures/functions shall neither jeopardize the operations of already deployed systems nor alter the procedures/functions that were selected in [1].

1.3 Proposed Amendments

The below list gathers the suggested enhancements to the CLNP profile defined in [1]:

1. **mandatory** support of the Echo Reply function;
2. **mandatory** support of the Echo Request function. An administrator shall at least be able to select the initial lifetime of the issued Echo Request PDU and the size of the conveyed user data;
3. the ability of remotely triggering Echo Request functions is **mandated** for SONET NEs. An administrator shall at least be able to select the initial lifetime of the issued Echo Request PDU and the size of the conveyed user data.

The first two points apply to all systems running CLNP, regardless of their roles within the DCN or in the TMN at large. Note that the support of Echo Request implies that a local management interface be able to trigger the issuance of ERQ PDUs.

The last point applies only to SONET NEs (i.e. equipment having the capability of transmitting SONET traffic). It does not apply to OSs, Routers and other systems connected to the SONET DCN.

The source routing functions remain prohibited for SONET OAM&P.

1.4 References

The following documents are referenced herein:

- [1] GR-253-CORE SONET Transport Systems: Common Criteria.
- [2] ISO-8473-1:1994 Protocol for providing the connectionless-mode network service - Protocol specification¹.

1.5 Abbreviations

The following abbreviated terms are used in this document:

AOM&P	Administration, Operations, Maintenance and Provisioning
CLNP	Connectionless Network Protocol
DCN	Data Communication Network
PICS	Protocol Implementation Conformance Statement
NE	Network Element
OS	Operation System

1.6 Revision History

ISSUE	DATE	COMMENTS / CHANGE SUMMARY
Initial Draft	Oct-10-1998	Proposed for review during Iselin meeting
First Revision	Feb-03-1999	Revised after the CLNP profile survey result
Final Revision	Feb-23-1999	Editorial changes: 1. ISO base standard dates back from 1994 (whilst ITU-T X.233 was issued in 1993), 2. Removals of optional features from the lists of additions of the SONET profile compared to [2].

¹ This document is technically aligned with ITU-T X.233 (1993).

2. ISO-8473-1 PICS

2.1 IDENTIFICATION

2.1.1 Implementation identification

Supplier	
Contact point for queries about this PICS	
Implementation Name(s) and Versions	
Operating system Name(s) and Version(s)	
Other information necessary for full identification	

2.1.2 Protocol summary

Identification of the protocol specification	ISO/IEC 8473-1:1994/ITU-T X.233:1993
Identification of corrigenda and amendments to the PICS proforma	none
Protocol version(s) Supported	Version 1
Have any Exception items been required?	No
Date of Statement	

2.2 MAJOR CAPABILITIES

Item	Functionality/Description	Reference	Status	Profile
* ES	End system		O.1	M
* IS	Intermediate system		O.1	M
FL-r	<r> Full protocol	6	M	M
FL-s	<s> Full protocol	6	M	M
NSS-r	<r> Non-segmenting subset	5.2	M	M
* NSS-s	<s> Non-segmenting subset	5.2	IS:M ^IS:O	IS:M ^IS:O
* IAS-r	<r> Inactive subset	5.2	ES:O	M
* IAS-s	<s> Inactive subset	5.2	IAS-r:M ^IAS-r:X	X

2.3 END SYSTEMS

2.3.1 Supported functions

Item	Function	Reference	Status	Profile
ePDUC	PDU composition	6.1	M	M
ePDUD	PDU decomposition	6.2	M	M
eHFA	Header format analysis	6.3	M	M
ePDUL-s	<s> PDU lifetime control	6.4	M	M
ePDUL-r	<r> PDU lifetime control	6.4	O	M
eRout	Route PDU	6.5	M	M
eForw	Forward PDU	6.6	M	M
eSegm	Segment PDU	6.7	M	M
eReas	Reassemble PDU	6.8	M	M
eDisc	Discard PDU	6.9	M	M
eErep	Error reporting	6.10	M	M
eEdec-s	<s> Header error detection	6.11	M	M

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eEdec-r	<r> Header error detection	6.11	M	M
* eSecu-s	<s> Security	6.13	O	i
* eSecu-r	<r> Security	6.13	O	i
* eCRR-s	<s> Complete route recording	6.15	O	O
* eCRR-r	<r> Complete route recording	6.15	O	O
* ePRR-s	<s> Partial route recording	6.15	O	O
* ePRR-r	<r> Partial route recording	6.15	O	O
* eCSR	Complete source routing	6.14	O	X
* ePSR	Partial source routing	6.14	O	X
* ePri-s	<s> Priority	6.17	O	i
* ePri-r	<r> Priority	6.17	O	i
* eQOSM-s	<s> QOS maintenance	6.16	O	M
* eQOSM-r	<r> QOS maintenance	6.16	O	M
* eCONG-s	<s> Congestion notification	6.18	eQOSM-s:M	out-of-scope
* eCONG-r	<r> Congestion notification	6.18	O	out-of-scope
* ePadd-s	<s> Padding	6.12	O	i
* ePadd-r	<r> Padding	6.12	M	M
eEreq	Echo request	6.19	O	M
eErsp	Echo response	6.20	O	M
eSegS	Create segments smaller than necessary	6.8	O	O

2.3.2 Supported PDUs

Item	PDU type	Reference	Status	Profile
eDT-t	DT (full protocol) transmit	7.7	M	M
eDT-r	DT (full protocol) receive	7.7	M	M
eDTNS-t	DT (non segmenting) transmit	7.7	NSS-s:M	X
eDTNS-r	DT (non segmenting) receive	7.7	M	M
eER-t	ER transmit	7.9	M	M
eER-r	ER receive	7.9	M	M

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eIN-t	Inactive PDU transmit	7.8	IAS-s:M	X
eIN-r	Inactive PDU receive	7.8	IAS-r:M	M
eERQ-t	ERQ transmit	7.10	eEreq:M	M
eERQ-r	ERQ receive	7.10	M	M
eERP-t	ERP transmit	7.11	eEresp:M	M
eERP-r	ERP receive	7.11	M	M

2.3.3 Supported parameters

2.3.3.1 DT parameters

Item	Parameter	Reference	Status	Profile
edFxFt-s	<s> Fixed part	7.2	M	M
edFxFt-r	<r> Fixed part	7.2	M	M
edAddr-s	<s> Address	7.3	M	M
edAddr-r	<r> Addresses	7.3	M	M
edSeg-s	<s> Segmentation part	7.4	M	M
edSeg-r	<r> Segmentation part	7.4	M	M
edPadd-s	<s> Padding	7.5.2	ePadd-s:M	ePadd-s:M
edPadd-r	<r> Padding	7.5.3	M	M
edSecu-s	<s> Security	7.5.3	eSecu-s:M	eSecu-s:M
edSecu-r	<r> Security	7.5.3	eSecu-r:M	eSecu-r:M
edCRR-s	<s> Complete route recording	7.5.5	eCRR-s:M	eCRR-s:M
edCRR-r	<r> Complete route recording	7.5.5	eCRR-r:M	eCRR-r:M
edPRR-s	<s> Partial route recording	7.5.5	ePRR-s:M	ePRR-s:M
edPRR-r	<r> Partial route recording	7.5.5	ePRR-r:M	ePRR-r:M
edCSR-s	<s> Complete source routing	7.5.4	eCSR:M	X
edPSR-s	<s> Partial source routing	7.5.4	ePSR:M	X
edQOSM-s	<s> QoS maintenance	7.5.6	c1:M	M
edQOSM-r	<r> QoS maintenance	7.5.6	c2:M	M
edPri-s	<s> Priority	7.5.7	ePri-s:M	ePri-s:M

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April 29, 1999

edPri-r	<r> Priority	7.5.7	ePri-s:M	ePri-s:M
edData-s	<s> Data	7.6	M	M
edData-r	<r> Data	7.6	M	M
edUnSup2	are received PDUs containing parameters selecting unsupported Type 2 functions discarded and where appropriate an Error Report PDU generated?	6.21	M	M
edUnsup3	are received PDUs containing parameters selecting unsupported Type 3 functions ignored?	6.21	M	M

Definition of conditional status entries:

c1: eQOSM-s OR eCong-s

c2: eQOSM-r OR eCong-r

2.3.3.2 ER parameters

Item	Parameter	Reference	Status	Profile
eeFxFt-s	<s> Fixed part	7.2	M	M
eeFxFt-r	<r> Fixed part	7.2	M	M
eeAddr-s	<s> Address	7.3	M	M
eeAddr-r	<r> Addresses	7.3	M	M
eePadd-s	<s> Padding	7.5.2	ePadd-s:M	ePadd-s:M
eePadd-r	<r> Padding	7.5.3	M	M
eeSecu-s	<s> Security	7.5.3	eSecu-s:M	eSecu-s:M
eeSecu-r	<r> Security	7.5.3	eSecu-r:M	eSecu-r:M
eeCRR-s	<s> Complete route recording	7.5.5	eCRR-s:M	eCRR-s:M
eeCRR-r	<r> Complete route recording	7.5.5	eCRR-r:M	eCRR-r:M
eePRR-s	<s> Partial route recording	7.5.5	ePRR-s:M	ePRR-s:M
eePRR-r	<r> Partial route recording	7.5.5	ePRR-r:M	ePRR-r:M
eeCSR-s	<s> Complete source routing	7.5.4	eCSR:M	X
eePSR-s	<s> Partial source routing	7.5.4	ePSR:M	X
eeQOSM-s	<s> QoS maintenance	7.5.6	c1:M	M
eeQOSM-r	<r> QoS maintenance	7.5.6	c2:M	M

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April 29, 1999

eePri-s	<s> Priority	7.5.7	ePri-s:M	M
eePri-r	<r> Priority	7.5.7	ePri-s:M	M
eeDisc-s	<s> Reason for discard	7.9.5	M	M
eeDisc-r	<r> Reason for discard	7.9.5	M	M
eeData-s	<s> Data	7.9.6	M	M
eeData-r	<r> Data	7.9.6	M	M
eeUnSup2	are received PDUs containing parameters selecting unsupported Type 2 functions discarded and where appropriate an Error Report PDU generated?	6.21	M	M
eeUnsup3	are received PDUs containing parameters selecting unsupported Type 3 functions ignored?	6.21	M	M

Definition of conditional status entries:

c1: eQOSM-s OR eCong-s

c2: eQOSM-r OR eCong-r

2.3.3.3 Inactive network layer protocol PDU parameters

Item	Parameter	Reference	Status	Profile
eiNLPI-s	<s> Inactive network layer protocol identifier	7.8.2	IAS-s:M	M
eiNLPI-r	<r> Inactive network layer protocol identifier	7.8.2	IAS-r:M	M
eiData-s	<s> Data	7.8.3	IAS-s:M	X
eiData-r	<r> Data	7.8.3	IAS-r:M	M

2.3.3.4 ERQ parameters

Item	Parameter	Reference	Status	Profile
eqFxPt-s	<s> Fixed part	7.2	M	M
eqFxPt-r	<r> Fixed part	7.2	M	M
eqAddr-s	<s> Address	7.3	M	M
eqAddr-r	<r> Addresses	7.3	M	M
eqSeg-s	<s> Segmentation part	7.4	M	M

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April 29, 1999

eqSeg-r	<r> Segmentation part	7.4	M	M
eqPadd-s	<s> Padding	7.5.2	ePadd-s:M	ePadd-s:M
eqPadd-r	<r> Padding	7.5.3	M	M
eqSecu-s	<s> Security	7.5.3	eSecu-s:M	eSecu-s:M
eqSecu-r	<r> Security	7.5.3	eSecu-r:M	eSecu-r:M
eqCRR-s	<s> Complete route recording	7.5.5	eCRR-s:M	eCRR-s:M
eqCRR-r	<r> Complete route recording	7.5.5	eCRR-r:M	eCRR-r:M
eqPRR-s	<s> Partial route recording	7.5.5	ePRR-s:M	ePRR-s:M
eqPRR-r	<r> Partial route recording	7.5.5	ePRR-r:M	ePRR-r:M
eqCSR-s	<s> Complete source routing	7.5.4	eCSR:M	X
eqPSR-s	<s> Partial source routing	7.5.4	ePSR:M	X
eqQOSM-s	<s> QoS maintenance	7.5.6	c1:M	M
eqQOSM-r	<r> QoS maintenance	7.5.6	c2:M	M
eqPri-s	<s> Priority	7.5.7	ePri-s:M	i
eqPri-r	<r> Priority	7.5.7	ePri-s:M	i
eqData-s	<s> Data	7.6	M	M
eqData-r	<r> Data	7.6	M	M
eqUnSup2	are received PDUs containing parameters selecting unsupported Type 2 functions discarded and where appropriate an Error Report PDU generated?	6.21	M	M
eqUnsup3	are received PDUs containing parameters selecting unsupported Type 3 functions ignored?	6.21	M	M

Definition of conditional status entries:

c1: eQOSM-s OR eCong-s

c2: eQOSM-r OR eCong-r

2.3.3.5 ERP parameters

Item	Parameter	Reference	Status	Profile
epFxFt-s	<s> Fixed part	7.2	M	M
epFxFt-r	<r> Fixed part	7.2	M	M
epAddr-s	<s> Address	7.3	M	M

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epAddr-r	<r> Addresses	7.3	M	M
epSeg-s	<s> Segmentation part	7.4	M	M
epSeg-r	<r> Segmentation part	7.4	M	M
epPadd-s	<s> Padding	7.5.2	ePadd-s:M	ePadd-s:M
epPadd-r	<r> Padding	7.5.3	M	M
epSecu-s	<s> Security	7.5.3	eSecu-s:M	eSecu-s:M
epSecu-r	<r> Security	7.5.3	eSecu-r:M	eSecu-r:M
epCRR-s	<s> Complete route recording	7.5.5	eCRR-s:M	eCRR-s:M
epCRR-r	<r> Complete route recording	7.5.5	eCRR-r:M	eCRR-r:M
epPRR-s	<s> Partial route recording	7.5.5	ePRR-s:M	ePRR-s:M
epPRR-r	<r> Partial route recording	7.5.5	ePRR-r:M	ePRR-r:M
epCSR-s	<s> Complete source routing	7.5.4	eCSR:M	X
epPSR-s	<s> Partial source routing	7.5.4	ePSR:M	X
epQOSM-s	<s> QoS maintenance	7.5.6	c1:M	M
epQOSM-r	<r> QoS maintenance	7.5.6	c2:M	M
epPri-s	<s> Priority	7.5.7	ePri-s:M	M
epPri-r	<r> Priority	7.5.7	ePri-s:M	M
epData-s	<s> Data	7.6	M	M
epData-r	<r> Data	7.6	M	M
epUnSup2	are received PDUs containing parameters selecting unsupported Type 2 functions discarded and where appropriate an Error Report PDU generated?	6.21	M	M
epUnsup3	are received PDUs containing parameters selecting unsupported Type 3 functions ignored?	6.21	M	M

Definition of conditional status entries:

c1: eQOSM-s OR eCong-s

c2: eQOSM-r OR eCong-r

2.3.4 timers

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April 29, 1999

Item	Timer	Reference	Status	Values	Profile	Values Supported
eLifReas	Is reassembly timer <= received derived PDU lifetime	6.8	M		M	
eReasLim	What values of the reassembly timer are Supported	6.8		500ms to 127,5s	500ms to 127,5s ²	

2.4 INTERMEDIATE SYSTEMS

2.4.1 Supported functions

Item	Function	Reference	Status	Profile
iPDUC	PDU composition	6.1	M	M
iPDUD	PDU decomposition	6.2	M	M
iHFA	Header format analysis	6.3	M	M
iPDUL	<s> PDU lifetime control	6.4	M	M
iRout	Route PDU	6.5	M	M
iForw	Forward PDU	6.6	M	M
iSegm	Segment PDU	6.7	iDSNS:M	M
iReas	Reassemble PDU	6.8	iErspl:M ^iErspl:O	M
iDisc	Discard PDU	6.9	M	M
iErep	Error reporting	6.10	M	M
iEdec-s	<s> Header error detection	6.11	M	M
* iSecu-s	<s> Security	6.13	O	i
* iCRR-s	<s> Complete route recording	6.15	O	O
* iPRR-s	<s> Partial route recording	6.15	O	O
* iCSR	Complete source routing	6.14	O	X
* iPSR	Partial source routing	6.14	O	X
* iPri-s	<s> Priority	6.17	O	M

² The timer imprecision **shall not** exceed 1 second. A timer accuracy of 500ms or lower is **desirable**.

* iQOSM-s	<s> QOS maintenance	6.16	O	M
* iCONG-s	<s> Congestion notification	6.18	eQOSM-s:M	out-of-scope
iPadd-s	<s> Padding	6.12	M	M
iEreq	Echo request	6.19	O	M
* iErsP	Echo response	6.20	O	M
iSegS	Create segments smaller than necessary	6.8	O	O
iDSNS	Simultaneous Profile of sub networks with different SN-Userdata sizes	Table 9 note 3	O	M

2.4.2 Supported PDUs

Item	PDU type	Reference	Status	Profile
iDT-t	DT (full protocol) transmit	7.7	M	M
iDT-r	DT (full protocol) receive	7.7	M	M
iDTNS-t	DT (non segmenting) transmit	7.7	NSS-s:M	M
iDTNS-r	DT (non segmenting) receive	7.7	M	M
iER-t	ER transmit	7.9	M	M
iER-r	ER receive	7.9	M	M
iERQ-t	ERQ transmit	7.10	iEreq:M	M
iERQ-r	ERQ receive	7.10	M	M
iERP-t	ERP transmit	7.11	iErsP:M	M
iERP-r	ERP receive	7.11	M	M

2.4.3 Supported parameters

2.4.3.1 DT parameters

Item	Parameter	Reference	Status	Profile
idFxFt-s	<s> Fixed part	7.2	M	M
idFxFt-r	<r> Fixed part	7.2	M	M
idAddr-s	<s> Address	7.3	M	M
idAddr-r	<r> Addresses	7.3	M	M
idSeg-s	<s> Segmentation part	7.4	M	M
idSeg-r	<r> Segmentation part	7.4	M	M
idPadd-s	<s> Padding	7.5.2	iPadd:M	iPadd:M
idPadd-r	<r> Padding	7.5.3	M	M
idSecu-s	<s> Security	7.5.3	iSecu:M	iSecu:M
idSecu-r	<r> Security	7.5.3	iSecu:M	iSecu:M
idCRR-s	<s> Complete route recording	7.5.5	iCRR:M	iCRR:M
idCRR-r	<r> Complete route recording	7.5.5	iCRR:M	iCRR:M
idPRR-s	<s> Partial route recording	7.5.5	M	M
idPRR-r	<r> Partial route recording	7.5.5	iPRR:M	iPRR:M
idCSR-s	<s> Complete source routing	7.5.4	iCSR:M	X
idCSR-r	<r> Complete source routing	7.5.4	iCSR:M	X
idPSR-s	<s> Partial source routing	7.5.4	M	M
idPSR-r	<r> Partial source routing	7.5.4	iPSR:M	X
idQOSM-s	<s> QoS maintenance	7.5.6	M	M
idQOSM-r	<r> QoS maintenance	7.5.6	c1:M	M
idPri-s	<s> Priority	7.5.7	M	M
idPri-r	<r> Priority	7.5.7	iPri:M	M
idData-s	<s> Data	7.6	M	M
idData-r	<r> Data	7.6	M	M

idUnSup2	are received PDUs containing parameters selecting unsupported Type 2 functions discarded and where appropriate an Error Report PDU generated?	6.21	M	M
idUnsup3	are received PDUs containing parameters selecting unsupported Type 3 functions ignored?	6.21	M	M

Definition of conditional status entries:

c1: iQOSM OR iCong

2.4.3.2 ER parameters

Item	Parameter	Reference	Status	Profile
ieFxFt-s	<s> Fixed part	7.2	M	M
ieFxFt-r	<r> Fixed part	7.2	M	M
ieAddr-s	<s> Address	7.3	M	M
ieAddr-r	<r> Addresses	7.3	M	M
iePadd-s	<s> Padding	7.5.2	M	M
iePadd-r	<r> Padding	7.5.3	M	M
ieSecu-s	<s> Security	7.5.3	iSecu:M	iSecu:M
ieSecu-r	<r> Security	7.5.3	iSecu:M	iSecu:M
ieCRR-s	<s> Complete route recording	7.5.5	iCRR:M	iCRR:M
ieCRR-r	<r> Complete route recording	7.5.5	iCRR:M	iCRR:M
iePRR-s	<s> Partial route recording	7.5.5	M	M
iePRR-r	<r> Partial route recording	7.5.5	iPRR:M	iPRR:M
ieCSR-s	<s> Complete source routing	7.5.4	iCSR:M	X
ieCSR-r	<r> Complete source routing	7.5.4	iCSR:M	X
iePSR-s	<s> Partial source routing	7.5.4	M	M
iePSR-r	<r> Partial source routing	7.5.4	iPSR:M	X
ieQOSM-s	<s> QoS maintenance	7.5.6	M	M
ieQOSM-r	<r> QoS maintenance	7.5.6	c1:M	M
iePri-s	<s> Priority	7.5.7	M	M
iePri-r	<r> Priority	7.5.7	iPri:M	M

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April 29, 1999

ieDisc-s	<s> Reason for discard	7.9.5	M	M
ieDisc-r	<r> Reason for discard	7.9.5	M	M
ieData-s	<s> Data	7.9.6	M	M
ieData-r	<r> Data	7.9.6	M	M
ieUnSup2	are received PDUs containing parameters selecting unsupported Type 2 functions discarded and where appropriate an Error Report PDU generated?	6.21	M	M
ieUnsup3	are received PDUs containing parameters selecting unsupported Type 3 functions ignored?	6.21	M	M

Definition of conditional status entries:

c1: iQOSM OR iCong

2.4.3.3 ERQ parameters

Item	Parameter	Reference	Status	Profile
iqFxFt-s	<s> Fixed part	7.2	M	M
iqFxFt-r	<r> Fixed part	7.2	M	M
iqAddr-s	<s> Address	7.3	M	M
iqAddr-r	<r> Addresses	7.3	M	M
iqSeg-s	<s> Segmentation part	7.4	M	M
iqSeg-r	<r> Segmentation part	7.4	M	M
iqPadd-s	<s> Padding	7.5.2	iPadd:M	iPadd:M
iqPadd-r	<r> Padding	7.5.3	M	M
iqSecu-s	<s> Security	7.5.3	iSecu:M	iSecu:M
iqSecu-r	<r> Security	7.5.3	iSecu:M	iSecu:M
iqCRR-s	<s> Complete route recording	7.5.5	iCRR:M	iCRR:M
iqCRR-r	<r> Complete route recording	7.5.5	iCRR:M	iCRR:M
iqPRR-s	<s> Partial route recording	7.5.5	M	M
iqPRR-r	<r> Partial route recording	7.5.5	iPRR:M	iPRR:M
iqCSR-s	<s> Complete source routing	7.5.4	iCSR:M	X
iqCSR-r	<r> Complete source routing	7.5.4	iCSR:M	X

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April 29, 1999

iqPSR-s	<s> Partial source routing	7.5.4	M	M
iqPSR-r	<r> Partial source routing	7.5.4	iPSR:M	X
iqQOSM-s	<s> QoS maintenance	7.5.6	M	M
iqQOSM-r	<r> QoS maintenance	7.5.6	c1:M	M
iqPri-s	<s> Priority	7.5.7	M	M
iqPri-r	<r> Priority	7.5.7	iPri:M	M
iqData-s	<r> Data	7.6	M	M
iqData-r	<r> Data	7.6	M	M
iqUnSup2	are received PDUs containing parameters selecting unsupported Type 2 functions discarded and where appropriate an Error Report PDU generated?	6.21	M	M
iqUnsup3	are received PDUs containing parameters selecting unsupported Type 3 functions ignored?	6.21	M	M

Definition of conditional status entries:

c1: iQOSM OR iCong

2.4.3.4 ERP parameters

Item	Parameter	Reference	Status	Profile
ipFxFt-s	<s> Fixed part	7.2	M	M
ipFxFt-r	<r> Fixed part	7.2	M	M
ipAddr-s	<s> Address	7.3	M	M
ipAddr-r	<r> Addresses	7.3	M	M
ipSeg-s	<s> Segmentation part	7.4	M	M
ipSeg-r	<r> Segmentation part	7.4	M	M
ipPadd-s	<s> Padding	7.5.2	iPadd:M	iPadd:M
ipPadd-r	<r> Padding	7.5.3	M	M
ipSecu-s	<s> Security	7.5.3	iSecu:M	i
ipSecu-r	<r> Security	7.5.3	iSecu:M	i
ipCRR-s	<s> Complete route recording	7.5.5	iCRR:M	iCRR:M
ipCRR-r	<r> Complete route recording	7.5.5	iCRR:M	iCRR:M

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April 29, 1999

ipPRR-s	<s> Partial route recording	7.5.5	M	M
ipPRR-r	<r> Partial route recording	7.5.5	iPRR:M	iPRR:M
ipCSR-s	<s> Complete source routing	7.5.4	iCSR:M	X
ipCSR-r	<r> Complete source routing	7.5.4	iCSR:M	X
ipPSR-s	<s> Partial source routing	7.5.4	M	M
ipPSR-r	<r> Partial source routing	7.5.4	iPSR:M	X
ipQOSM-s	<s> QoS maintenance	7.5.6	M	M
ipQOSM-r	<r> QoS maintenance	7.5.6	c1:M	M
ipPri-s	<s> Priority	7.5.7	M	M
ipPri-r	<r> Priority	7.5.7	iPri:M	M
ipData-s	<r> Data	7.6	M	M
ipData-r	<r> Data	7.6	M	M
ipUnSup2	are received PDUs containing parameters selecting unsupported Type 2 functions discarded and where appropriate an Error Report PDU generated?	6.21	M	M
ipUnsup3	are received PDUs containing parameters selecting unsupported Type 3 functions ignored?	6.21	M	M

Definition of conditional status entries:

c1: iQOSM OR iCong

2.4.4 timers

Item	Timer	Reference	Status	Values	Profile	Values Supported
iLifReas	Is reassembly timer <= received derived PDU lifetime	6.8	iReas:M		M	
iReasLim	What values of the reassembly timer are supported	6.8		500ms to 127,5s	500ms to 127,5s 3	

³ The timer imprecision **shall not** exceed 1 second. A timer accuracy of 500ms or lower is **desirable**.

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April 29, 1999

3. Remaining issues

The remote management interface for Echo Request is yet to be determined.