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Integrated Services Digital Network (ISDN);
Message Waiting Indication (MWI) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 2: Protocol Implementation Conformance Statement (PICS)
proforma specification

## **ETSI**

European Telecommunications Standards Institute

#### **ETSI Secretariat**

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

X.400: c=fr, a=atlas, p=etsi, s=secretariat - Internet: secretariat@etsi.fr

Tel.: +33 4 92 94 42 00 - Fax: +33 4 93 65 47 16

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Final draft prETS 300 745-2: April 1997	7	

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## **Contents**

Fore	word		5
1	Scope.		7
_			_
2	Normati	ive references	7
3	Definition	ons and abbreviations	ç
5	3.1	Definitions	
	3.2	Abbreviations	
	0.2		
4	Conforn	mance	8
Anne	ex A (norn	mative): PICS proforma for ETS 300 745-1	
A.1	Instruct	ions for completing the PICS proforma	(
	A.1.1	Identification of the implementation	
	A.1.2	Global statement of conformance	
	A.1.3	Explanation of PICS proforma subclauses	
	A.1.4	Symbols, abbreviations and terms	
A.2	Identific	cation of the implementation	10
/ \.Z	A.2.1	Implementation Under Test (IUT) identification	
	A.2.2	System Under Test (SUT) identification	
	A.2.3	Product supplier	
	A.2.4	Client	
	A.2.5	PICS contact person	
A.3	PICS/S	CS	12
A.4	Identific	cation of the protocol	12
A.5	Global	statement of conformance	13
A.6	Roles		13
۸ 7	Llaar		4.
A.7	User A.7.1	Major capabilities	
	A.7.1 A.7.2	Subsidiary capabilities	
	A.7.2 A.7.3	Protocol Data Units	
	A.7.3 A.7.4	Protocol Data Unit parameters	
	A.7.5	Timers	
	A.7.6	Call states	
A.8	Notwork	k	16
A.ŏ		k	
	A.8.1 A.8.2	Major capabilities	
	A.8.3	Protocol Data Units	
	A.8.4	Protocol Data Unit parameters	
	A.8.5	Timers	
	A.8.6	Call states	18

## Page 4 Final draft prETS 300 745-2: April 1997

Anne	x B (norm	native): Requirements list	19
B.1	User B.1.1	Requirements on items used in the basic call PICS	_
	B.1.1	Requirements on items used in the generic functional protocol PICS	
	B.1.3	Requirements on items used in the supplementary services interactions PICS	
B.2	Network		20
	B.2.1	Requirements on items used in the basic call PICS	20
	B.2.2	Requirements on items used in the generic functional protocol PICS	
	B.2.3	Requirements on items used in the Supplementary services interactions PICS	
Histo	ry		22

#### **Foreword**

This final draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure.

This ETS is part 2 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Message Waiting Indication (MWI) supplementary service, as described below:

Part 1: "Protocol specification";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing

(PIXIT) proforma specification for the user";

Part 5: "TSS&TP specification for the network";

Part 6: "ATS and partial PIXIT proforma specification for the network".

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

Pro	oposed	trans	position	dates

Date of latest announcement of this ETS (doa): 3 months after ETSI publication

Date of latest publication of new National Standard or endorsement of this ETS (dop/e):

6 months after doa

Date of withdrawal of any conflicting National Standard (dow): 6 months after doa

Page 6 Final draft prETS 300 745-2: April 1997

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#### 1 Scope

This second part of ETS 300 745 is applicable to the stage three of the Message Waiting Indication (MWI) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [9]) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see CCITT Recommendation I.130 [8]).

This ETS provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN DSS1 MWI supplementary service protocol as specified in ETS 300 745-1 [5] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [7].

The supplier of a protocol implementation which is claimed to conform to ETS 300 745-1 [5] is required to complete a copy of the PICS proforma provided in annex A of this ETS and is required to provide the information necessary to identify both the supplier and the implementation.

#### 2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

edition of the publication	referred to applies.
[1]	EN 300 195-1 (V1.2): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
[2]	EN 300 195-2 (V1.2): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
[3]	ETS 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
[4]	ETS 300 196-2: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
[5]	ETS 300 745-1: "Integrated Services Digital Network (ISDN); Message Waiting Indication (MWI) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
[6]	ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
[7]	ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation

[8] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

Conformance Statements".

[9] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

Final draft prETS 300 745-2: April 1997

#### 3 Definitions and abbreviations

#### 3.1 Definitions

For the purposes of this ETS, the following definitions apply, in addition to those given in ETS 300 745-1 [5]:

**Protocol Implementation Conformance Statement (PICS):** A statement made by the supplier of an Open Systems Interconnection (OSI) implementation or system, stating which capabilities have been implemented for a given OSI protocol (see ISO/IEC 9646-1 [6]).

**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 OSI implementation or system, becomes the PICS (see ISO/IEC 9646-1 [6]).

**static conformance review:** A review of the extent to which the static conformance requirements are met by the IUT, accomplished by comparing the PICS with the static conformance requirements expressed in the relevant standard(s) (see ISO/IEC 9646-1 [6]).

#### 3.2 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

AND Boolean "and"

DSS1 Digital Subscriber Signalling System No. one

IET Information Elements Transmitted ISDN Integrated Services Digital Network

IUT Implementation Under Test

M Mandatory requirement (to be observed in all cases)

MC Major Capabilities
MT Messages Transmitted
MWI Message Waiting Indication

N/A Not applicable, not supported or the conditions for status are not met

No not supported NOT Boolean "not"

O Option (may be selected to suit the implementation, provided that any

requirements applicable to the option are observed)

O.n Options, but support required for either at least one or only one of the options in

the group labelled with the same numeral "n"

OR Boolean "or"

OSI Open Systems Interconnection

P Parameters

PICS Protocol Implementation Conformance Statement

R Role

SC Subsidiary Capabilities

SCS System Conformance Statement

SUT System Under Test

TM Timers Yes supported

#### 4 Conformance

A PICS proforma which conforms to this PICS proforma specification shall be technically equivalent to annex A, and shall preserve the numbering and ordering of the items in annex A.

A PICS which conforms to this PICS proforma specification shall:

- a) describe an implementation which claims to conform to ETS 300 745-1 [5];
- b) be a conforming PICS proforma which has been completed in accordance with the instructions for completion given in clause A.1:
- c) include the information necessary to uniquely identify both the supplier and the implementation.

## Annex A (normative): PICS proforma for ETS 300 745-1

Notwithstanding the provisions of the copyright clause related to the text of this ETS, ETSI grants that users of this ETS may freely reproduce the PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed PICS.

## A.1 Instructions for completing the PICS proforma

#### A.1.1 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the 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.

The System Conformance Statement (SCS) as defined in ISO/IEC 9646-1 [6] is a document supplied by the client or product supplier that summarizes which OSI standards are implemented and to which conformance is claimed. The PICS/SCS subclause should describe the relationship of the PICS to the SCS.

#### A.1.2 Global statement of conformance

If the answer to the statement in this subclause is "Yes", all subsequent subclauses should be completed to facilitate selection of test cases for optional functions.

If the answer to the statement in this subclause is "No", all subsequent subclauses should be completed, and all non-supported mandatory capabilities should be identified and explained. Explanations may be entered in the comments field at the bottom of each table or on attached sheets of paper.

#### A.1.3 Explanation of PICS proforma subclauses

The PICS proforma contains a Roles clause and thereafter is presented in two parts (for user and network) with the following subclauses, as required:

- major capabilities;
- subsidiary capabilities;
- protocol data unit support;
- protocol data unit parameters;
- timers;
- call states.

The User clause shall only be completed for user implementations (including private network implementations) while the Network clause shall only be completed for network implementations. The Roles clause shall be completed for all implementations.

The relationship between this PICS proforma and other related PICS proforma (e.g. the basic call PICS proforma) is expressed in the requirements list contained in annex B. This provides the additional restrictions placed on the related proforma (different conditions, different status, etc.).

#### Page 10

Final draft prETS 300 745-2: April 1997

#### A.1.4 Symbols, abbreviations and terms

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [7].

The reference column contained in the tables gives reference to the appropriate part(s) of ETS 300 745-1 [5] describing the particular item. Note, however, that a reference merely indicates the place where the core of a description of an item can be found. Any additional information contained in ETS 300 745-1 [5] has to be taken into account when making a statement about the conformance of that particular item.

The following common notations, defined in ISO/IEC 9646-7 [7], are used for the status column:

M mandatory
O optional
N/A not applicable

O.<integer> for mutually exclusive or selectable options from a set

The following common notations, defined in ISO/IEC 9646-7 [7], are used for the support column:

Y for supported/implemented

N for not supported/not implemented

## A.2 Identification of the implementation

A.2.1	Implementation Under Test (IUT) Identification
IUT nam	e:
IUT vers	ion:
A.2.2	System Under Test (SUT) identification
SUT nar	ne:
Hardwar	e configuration:
	e configuration.
Operatin	g system:

A.2.3	Product supplier	
Name:		
Address		
	e number:	
	number:	
Addition	information:	
A.2.4	Client	
Name:		
Address		
Telepho	e number:	
Facsimil		
1 40011111	number:	
	number: information:	

## Page 12 Final draft prETS 300 745-2: April 1997

Δ	.2.5	PICS	contact	person

Name	
Addre	ss:
Telepl	hone number:
Facsir	mile number:
Additio	onal information:
A.3	PICS/SCS
Provid	de the relationship of the PICS with the SCS for the system:

## A.4 Identification of the protocol

This PICS proforma applies to the following standard:

**ETS 300 745-1 (1997):** "Integrated Services Digital Network (ISDN); Message Waiting Indication (MWI) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

#### A.5 Global statement of conformance

The implementation described in this PICS meets all the mandatory requirements of the referenced standard?

[]Yes

[ ] No

NOTE:

Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the comments field at the bottom of each table or on attached pages.

In the tabulations which follow, all references are to ETS 300 745-1 [5] unless another numbered reference is explicitly indicated.

#### A.6 Roles

**Table A.1: Type of Implementation** 

	Major role:	Conditions for	Status	Reference	Support
	Does the implementation	status			
	Type of implementation	•	· ·	1	1
R 1	not used				
R 2.1	support user requirements?		0.1	9, 10	[]Yes []No
R 2.2	support network requirements?		O.1	9, 10	[ ]Yes [ ]No
R 3.1	support requirements at the coincident S and T reference point?		0.2	9	[ ]Yes [ ]No
R 3.2	support requirements for interworking with private ISDNs at the T reference point?		O.2	10	[ ]Yes [ ]No
R 4.1	support user requirements at the interface of the	R 2.1	O.3	9, 10	[ ]Yes [ ]No
	controlling user?	NOT R 2.1	N/A		[ ]N/A
R 4.2	support user requirements at the interface of a	R 2.1	O.3	9, 10	[ ]Yes [ ]No
	receiving user?	NOT R 2.1	N/A		[ ]N/A
R 4.3	support network requirements at the interface of	R 2.2	M	9, 10	[ ]Yes [ ]No
	the controlling user?	NOT R 2.2	N/A		[ ]N/A
R 4.4	support network requirements at the interface of a	R 2.2	M	9, 10	[ ]Yes [ ]No
	receiving user?	NOT R 2.2	N/A		[ ]N/A
0.1	Support of one and only one of these options is req	uired.			
0.2	Support of at least one of these options is required.				
0.3	Support of at least one of these options is required.				
Comments:					

## A.7 User

The tables provided in this clause need only to be completed for user implementations, where item R 2.1 in table A.1 is supported.

## A.7.1 Major capabilities

Table A.2: Major capabilities - user

Item	Major capability: Does the implementation	Conditions for status	Status	Reference	Support
MC 1	support the message waiting indication	R 3.1 AND R 4.1 NOT (R3.1 AND R 4.1)	M N/A	9.1	[ ]Yes [ ]No [ ]N/A
MC 2	support the message waiting indication deactivation procedures?	R 3.1 AND R 4.1 NOT (R3.1 AND R 4.1)	M N/A	9.2	[ ]Yes [ ]No [ ]N/A
MC 3	support the message waiting indication invocation procedure?	R 3.1 AND R 4.2 NOT (R 3.1 AND R 4.2)	M N/A	9.5	[ ]Yes [ ]No [ ]N/A
MC 4	lank kara man karananan arang	R 3.2 AND R 4.1 NOT (R 3.2 AND R 4.1)	M N/A	10.1, 10.2	[ ]Yes [ ]No [ ]N/A
MC 5		R 3.2 AND R 4.2 NOT (R 3.2 AND R 4.2)	M N/A	10.3, 10.4	[ ]Yes [ ]No [ ]N/A
Comments:					

## A.7.2 Subsidiary capabilities

No items requiring response.

#### A.7.3 Protocol Data Units

No items requiring response.

## A.7.4 Protocol Data Unit parameters

Table A.3: Facility information element components received by the user

Item	Facility information element	Conditions for Status	Status	Reference	Support
	components:				
	Does the implementation support				
P 1.1	MWIActivate invoke?	R 3.2 AND R 4.2	M	7.1, 10.3.1	[ ]Yes [ ]No
		NOT (R3.2 AND R 4.2)	N/A		[ ]N/A
P 1.2	MWIActivate return result?	R 4.1	М	7.1, 9.1.1, 10.1.1	[]Yes []No
		NOT R 4.1	N/A		[ ]N/A
P 1.3	MWIActivate return error?	R 4.1	М	7.1, 9.1.2, 10.1.2	[]Yes []No
		NOT R 4.1	N/A		[ ]N/A
P 2.1	MWIDeactivate invoke?	R 3.2 AND R 4.2	M	7.1, 10.4.1	[ ]Yes [ ]No
		NOT (R3.2 AND R 4.2)	N/A		[ ]N/A
P 2.2	MWIDeactivate return result?	R 4.1	M	7.1, 9.2.1, 10.2.1	[ ]Yes [ ]No
		NOT R 4.1	N/A		[ ]N/A
P 2.3	MWIDeactivate return error?	R 4.1	М	7.1, 9.2.2, 10.2.2	[]Yes []No
		NOT R 4.1	N/A		[ ]N/A
P 3.1	MWIIndicate invoke?	R 3.1 AND R 4.2	M	7.1, 9.5.1	[ ]Yes [ ]No
		NOT (R3.1 AND R 4.2)	N/A		[ ]N/A
Comments:		(	1	1	Ir J. a. ,

Table A.4: Facility information element components transmitted by the user

Item	Facility information element components:  Does the implementation support	Conditions for Status	Status	Reference	Support	
P 4.1	MWIActivate invoke?	R 4.1 NOT R 4.1	M N/A	7.1, 9.1.1, 10.1.1	[ ]Yes [ ]No [ ]N/A	
P 4.2	MWIActivate return result?	R 3.2 AND R 4.2 NOT (R 3.2AND R 4.2)	M N/A	7.1, 10.3.1	[ ]Yes [ ]No [ ]N/A	
P 4.3	MWIActivate return error?	R 3.2AND R 4.2 NOT (R 3.2 AND R 4.2)	M N/A	7.1, 10.3.2	[ ]Yes [ ]No [ ]N/A	
P 5.1	MWIDeactivate invoke?	R 4.1 NOT R 4.1	M N/A	7.1, 9.2.1, 10.2.1	[ ]Yes [ ]No [ ]N/A	
P 5.2	MWIDeactivate return result?	R 3.2 AND R 4.2 NOT (R 3.2AND R 4.2)	M N/A	7.1, 10.4.1	[ ]Yes [ ]No [ ]N/A	
P 5.3	MWIDeactivate return error?	R 3.2AND R 4.2 NOT (R 3.2 AND R 4.2)	M N/A	7.1, 10.4.2	[ ]Yes [ ]No [ ]N/A	
Comments:						

## A.7.5 Timers

Table A.5: Timers - user

TM 1 T-A	CTIVATE?	D 4.4			
		R 4.1 NOT R 4.1	M N/A	9.1.1	[ ]Yes [ ]No [ ]N/A
TM 2 T-D		R 4.1 NOT R 4.1	M N/A	9.2.1	[ ]Yes [ ]No [ ]N/A
Comments:					

## A.7.6 Call states

No items requiring response.

## A.8 Network

The tables provided in this clause need only to be completed for network implementations, where item R 2.2 in table A.1 is supported.

## A.8.1 Major capabilities

Table A.6: Major capabilities - network

Item	Major capability:	Conditions for status	Status	Reference	Support
	Does the implementation				
MC 6	support the message waiting indication		M	9.1	[ ]Yes [ ]No
	activation procedure?	NOT (R 3.1 AND R 4.3)	N/A		[ ]N/A
MC 7	support the message waiting indication		M	9.2	[ ]Yes [ ]No
	deactivation procedure?	NOT (R 3.1 AND R 4.3)	N/A		[ ]N/A
MC 8	support the message waiting indication	R 3.1 AND R 4.4	M	9.3, 9.4, 9.5	[ ]Yes [ ]No
	invocation procedure?	NOT (R 3.1 AND R 4.4)	N/A		[ ]N/A
MC 9	support the procedures associated	R 3.2 AND R 4.3	M	10.1, 10.2	[ ]Yes [ ]No
	with the provision of message waiting indication when the controlling user is in a private network?	NOT (R 3.2 AND R 4.3)	N/A		[ ]N/A
MC 10	support the procedures associated	R 3.2 AND R 4.4	M	10.3, 10.4	[]Yes []No
	with the provision of the message waiting indication when the receiving user is in a private network?	NOT (R 3.2 AND R 4.4)	N/A		[ ]N/A
MC 11	support subscription option for	R 3.1 AND R 4.4	0	6.1	[ ]Yes [ ]No
	registration of the ISDN numbers(s) of the controlling user(s)?	NOT (R 3.1 AND R 4.4)	N/A		[ ]N/A
MC 12	Provide additional information during	R 3.1 AND R 4.4	0	6.1	[ ]Yes [ ]No
	deferred invocation?	NOT (R 3.1 AND R 4.4)	N/A		[ ]N/A
Comments:					

## A.8.2 Subsidiary capabilities

Table A.7: Subsidiary capabilities - network

SC 1 support the invocation on outgoing call R 3.1 AND R 4.4 M 9.5.1.2 []Ye procedure? NOT (R 3.1 AND R 4.4)	s [ ]No
SC 2 support the invocation on R 3.1 AND R 4.4 M 9.5.1.1 []Ye (de)activation procedure? NOT (R 3.1 AND R 4.4) N/A []N/A	es [ ]No A

#### A.8.3 Protocol Data Units

No items requiring response.

## A.8.4 Protocol Data Unit parameters

Table A.8: Facility information element components received by the network

Item	Facility information element	Conditions for Status	Status	Reference	Support
	components:				
	Does the implementation support				
P 6.1	MWIActivate invoke?	R4.3	M	7.1, 9.1.1, 10.1.1	[ ]Yes [ ]No
		NOT R4.3	N/A		[ ]N/A
P 6.2	MWIActivate return result?	R 3.2 AND R 4.4	М	7.1, 10.3.1	[ ]Yes [ ]No
		NOT (R 3.2 AND R 4.4)	N/A		[ ]N/A
P 6.3	MWIActivate return error?	R 3.2 AND R 4.4	М	7.1, 10.3.2	[ ]Yes [ ]No
		NOT (R 3.2 AND R 4.4)	N/A		[ ]N/A
P 7.1	MWIDeactivate invoke?	R 4.3	М	7.1, 9.2.1.1, 10.2.1	[ ]Yes [ ]No
		NOT R 4.3	N/A		[ ]N/A
P 7.2	MWIDeactivate return result?	R 3.2 AND R 4.4	М	7.1, 10.4.1	[ ]Yes [ ]No
		NOT (R 3.2 AND R 4.4)	N/A		[ ]N/A
P 7.3	MWIDeactivate return error?	R 3.2 AND R 4.4	М	7.1, 10.4.2	[ ]Yes [ ]No
		NOT (R 3.2 AND R 4.4)	N/A		[ ]N/A
Comments:	·				

Table A.9: Facility information element components transmitted by the network

Item	Facility information element components:  Does the implementation support	Conditions for Status	Status	Reference	Support
P 8.1	MWIActivate invoke?	R 3.2 AND R 4.4 NOT (R 3.2 AND R 4.4)	M N/A	7.1, 10.3.1	[ ]Yes [ ]No [ ]N/A
P 8.2	MWIActivate return result?	R4.3 NOT R4.3	M N/A	7.1, 9.1.1, 10.1.1	[ ]Yes [ ]No [ ]N/A
P 8.3	MWIActivate return error?	R4.3 NOT R4.3	M N/A	7.1, 9.1.2, 10.1.2	[ ]Yes [ ]No [ ]N/A
P 9.1	MWIDeactivate invoke?	R 3.2 AND R 4.4 NOT (R 3.2 AND R 4.4)	M N/A	7.1, 10.4.1	[ ]Yes [ ]No [ ]N/A
P 9.2	MWIDeactivate return result?	R4.3 NOT R4.3	M N/A	7.1, 9.2.1, 10.2.1	[ ]Yes [ ]No [ ]N/A
P 9.3	MWIDeactivate return error?	R4.3 NOT R4.3	M N/A	7.1, 9.2.2, 10.2.2	[ ]Yes [ ]No [ ]N/A
P 10.1	MWIIndicate invoke?	R 3.1 AND R 4.4 NOT (R 3.1 AND R 4.4)	M N/A	7.1, 9.3.1	[ ]Yes [ ]No [ ]N/A

Comments:

Page 18

Final draft prETS 300 745-2: April 1997

## A.8.5 Timers

Table A.10: Timers - network

Item	Timers:	Conditions for status	Status	Reference	Support
	Does the implementation support				
TM 3	T-ACTIVATE?	R 3.2 AND R 4.3 NOT (R 3.2 AND R 4.3)	M N/A	10.3.1	[ ]Yes [ ]No [ ]N/A
TM 4	T-DEACTIVATE?	R 3.2 AND R 4.3 NOT (R 3.2 AND R 4.3)	M N/A	10.4.1	[ ]Yes [ ]No [ ]N/A
Comments:					

## A.8.6 Call states

No items requiring response.

## Annex B (normative): Requirements list

This annex repeats in the form of a requirements list some items of the basic call, generic functional protocol and supplementary service interactions PICS proforma required for support of ETS 300 745-1 [5]. No support column is provided as the answers are to be entered in the relevant base PICS proforma.

In the tables which follow in this annex, the status of the base PICS proforma is indicated as "C" (conditional) or "O" (optional). The "C" status is used where the base PICS proforma contains a number of interdependent items which need not be repeated in this ETS. "O" indicates that the item in the base PICS proforma is dependent on one or more other items, at least one of which has an optional status. The exact interdependency is fully specified in the base PICS proforma specification.

#### B.1 User

## B.1.1 Requirements on items used in the basic call PICS

No additional requirements.

#### B.1.2 Requirements on items used in the generic functional protocol PICS

In the tabulations which follow all item numbers are as contained in ETS 300 196-2 [4]. All references are to ETS 300 745-1 [5] unless otherwise stated.

Table B.1: Major capabilities - user (from ETS 300 196-2 [4])

Item	Major capability:	Status	SS conditions for status	SS status	Reference
	Does the implementation support	base			
MCu 2	the functional protocol (common information element category) for the control of supplementary services?	0	R 2.1 NOT R 2.1	M N/A	7, 9, 10
MCu 2.2	bearer independent supplementary service procedure	0	R 2.1 NOT R 2.1	M N/A	9,10
MCu 2.5	point-to-point (bearer independent) connection-oriented transport mechanism?	С	R 2.1 AND R 3.2 NOT (R 2.1 AND R 3.2)	M N/A	10; [3] 8.3.2
MCu 2.6	point-to-point (bearer independent) connectionless transport mechanism	С	(R 3.1 and R 4.1) NOT (R 3.1 and R 4.1))	M N/A	9.1, 9.2
MCu 2.7	broadcast (bearer independent) connectionless transport mechanism	С	(R 3.1 and R 4.2) NOT (R 3.1 and R 4.2)	M N/A	9.5
MCu 5	generic procedures for the supplementary services management?	0	R 3.1 AND R 4.1 NOT (R 3.1 AND R 4.1)	M N/A	9.1, 9.2; [3] 10.2
MCu 5.1	activation?	С	R 3.1 and R 4.1 not (R 3.1 and R 4.1)	M N/A	9.1; [3] 10.2.2
MCu 5.2	deactivation?	С	R 3.1 and R 4.1 not (R 3.1 and R 4.1)	M N/A	9.2; [3] 10.2.3

Table B.2: Messages transmitted - user (from ETS 300 196-2 [4])

Item	Major capability: Does the implementation support	Status base	SS conditions for status	SS status	Reference
MTu 1	the inclusion of FACILITY?	_			9; [3] 8.3

Table B.3: REGISTER PDU parameters transmitted- user (from ETS 300 196-2 [4])

Item	Major capability: Does the implementation support	Status base	SS conditions for status	SS status	Reference
IETu 5.4	Facility?	0	R 3.2 AND (R 4.1 OR R 4.2)	M	10;
			NOT (R 3.2 AND (R 4.1 OR R 4.2))	N/A	[3] 8.3.2.1

#### B.1.3 Requirements on items used in the supplementary services interactions PICS

In the tabulations which follow all item numbers are as contained in EN 300 195-2 [2]. All references are to ETS 300 745-1 [5] unless otherwise stated.

Table B.4: Major capabilities - user

Item	Major capability:	Status	SS conditions for status	SS status	Reference
	Does the implementation support	base			
MC 1.26	the MWI supplementary service interactions with other implemented supplementary services?	0	R 2.1 NOT R 2.1		12; [1] 5.2, 5.17, 5.34, 5.35, 5.36, 5.44, 5.45

#### **B.2** Network

#### B.2.1 Requirements on items used in the basic call PICS

No additional requirements.

#### B.2.2 Requirements on items used in the generic functional protocol PICS

In the tabulations which follow all item numbers are as contained in ETS 300 196-2 [4]. All references are to ETS 300 745-1 [5] unless otherwise stated.

Table B.5: Major capabilities - network (from ETS 300 196-2 [4])

Item	Major capability: Does the implementation support	Status base	SS conditions for status	SS status	Reference
MCn 2	the functional protocol (common information element category) for the control of supplementary services?	0	R 2.2 NOT R 2.2	M N/A	7, 9, 10
MCn 2.2	bearer independent supplementary service procedure?	0	R 2.2 NOT R 2.2	M N/A	9, 10; [3] 8.3.2
MCn 2.5	point-to-point (bearer independent) connection-oriented transport mechanism?	С	R 2.2 AND R 3.2 NOT (R 2.2 AND R 3.2)	M N/A	10 [3] 8.3.2
MCn 2.6	point-to-point (bearer independent) connectionless transport mechanism?	С	R 3.1 AND R 4.3 NOT (R 3.1 AND R 4.3)	M N/A	9.1, 9.2
MCn 2.7	broadcast (bearer independent) connectionless transport mechanism?	С	R 3.1 AND R4.4 NOT (R 3.1 AND R4.4)	M N/A	9.5; [3] 8.3.2
MCn 5	generic procedures for the supplementary services management?	0	R 3.1 and R4.3 NOT (R 3.1 and R4.3)	M N/A	9.1, 9.2; [3] 10.2
MCn 5.1	activation?	С	R 3.1 and R 4.3 not (R 3.1 and R 4.3)	M N/A	9.1; [3] 10.2.2
MCn 5.2	deactivation?	С	R 3.1 and R 4.3 not (R 3.1 and R 4.3)	M N/A	9.2; [3] 10.2.3

Table B.6: Messages transmitted - network (from ETS 300 196-2 [4])

Item	Major capability: Does the implementation support	Status base	SS conditions for status	SS status	Reference
MTn 1	the inclusion of FACILITY?	0	R 2.2	М	9;
			NOT R 2.2	N/A	[3] 8.3

Table B.7: REGISTER PDU parameters transmitted - network (from ETS 300 196-2 [4])

Item	Major capability:  Does the implementation support	Status base	SS conditions for status	SS status	Reference
IETn 5.4	Facility?	0	R 3.2 AND (R 4.3 OR R 4.4)	M	10;
			NOT (R 3.2 AND (R 4.3 OR R 4.4))	N/A	[3] 8.3.2.1

## B.2.3 Requirements on items used in the Supplementary services interactions PICS

In the tabulations which follow all item numbers are as contained in EN 300 195-2 [2]. All references are to ETS 300 745-1 [5] unless otherwise stated.

Table B.8: Major capabilities - network

Item	Major capability:  Does the implementation support	Status base	SS conditions for status	SS status	Reference
MC 2.26	the MWI supplementary service interactions with other implemented supplementary services?	O	R 2.2 NOT R 2.2		12; [1] 5.2, 5.17, 5.34, 5.35, 5.36, 5.44, 5.45

Page 22 Final draft prETS 300 745-2: April 1997

# History

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