## Draft EN 300 745-2 V1.2.3 (1998-02)

European Standard (Telecommunications series)

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



**European Telecommunications Standards Institute** 

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#### **Foreword**

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS), and is now submitted for the ETSI standards One-step Approval Procedure.

The present document 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: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";
- Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (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).

The present version updates the references to the basic call specifications.

Proposed national transposition dates					
Date of latest announcement of this EN (doa):	3 months after ETSI publication				
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa				
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa				

#### 1 Scope

This second part of EN 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]).

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN DSS1 MWI supplementary service protocol as specified in EN 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 EN 300 745-1 [5] is required to complete a copy of the PICS proforma provided in annex A of the present document and is required to provide the information necessary to identify both the supplier and the implementation.

#### 2 Normative references

References may be made to:

[7]

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

methodology and framework - Part 1: General concepts".

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1]	EN 300 195-1: "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: "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]	EN 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]	EN 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]	EN 300 745-1 (V1.2): "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 7: Implementation Conformance Statements".

ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing

- [8] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [9] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces Reference configurations".

#### 3 Definitions and abbreviations

#### 3.1 Definitions

For the purposes of the present document, the following definitions apply, in addition to those given in EN 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

SCS SUT

TM

Yes

For the purposes of the present document, the following abbreviations apply:

System Conformance Statement

System Under Test

Timers supported

AND Boolean "and" DSS<sub>1</sub> Digital Subscriber Signalling System No. one **IET** Information Elements Transmitted **ISDN Integrated Services Digital Network IUT** Implementation Under Test Mandatory requirement (to be observed in all cases) M Major Capabilities MC MT Messages Transmitted Message Waiting Indication **MWI** N/A Not applicable, not supported or the conditions for status are not met No not supported Boolean "not" 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" Boolean "or" OR Open Systems Interconnection OSI P **Parameters PICS** Protocol Implementation Conformance Statement R Role SC **Subsidiary Capabilities** 

## 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 EN 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 EN 300 745-1

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document 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.).

#### 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 EN 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 EN 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 IUT name:	Implementation Under Test (IUT) identification
IUT version:	
A.2.2 SUT name:	System Under Test (SUT) identification
Hardware coi	nfiguration:
Operating sys	stem:

# Product supplier A.2.3 Name: Address: Telephone number: Facsimile number: Additional information: A.2.4 Client Name: Address: Telephone number: Facsimile number: ..... Additional information:

## A.2.5 PICS contact person

Name:

Address:
Telephone number:
Facsimile number:
Additional information:
A.3 PICS/SCS
Provide 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:
<b>EN 300 745-1 (V1.2):</b> "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
[ ] <b>No</b>

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 EN 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				
not used				
support user requirements?		0.1	9, 10	[ ]Yes [ ]No
support network requirements?		0.1	9, 10	[]Yes []No
support requirements at the coincident S and T reference point?		0.2	9	[ ]Yes [ ]No
support requirements for interworking with private ISDNs at the T reference point?		0.2	10	[ ]Yes [ ]No
support user requirements at the interface of the controlling user?	R 2.1 NOT R 2.1	O.3 N/A	9, 10	[ ]Yes [ ]No [ ] N/A
support user requirements at the interface of a receiving user?	R 2.1 NOT R 2.1	O.3 N/A	9, 10	[ ]Yes [ ]No [ ] N/A
support network requirements at the interface of the controlling user?	R 2.2 NOT R 2.2	M N/A	9, 10	[ ]Yes [ ]No [ ] N/A
support network requirements at the interface of a receiving user?	R 2.2 NOT R 2.2	M N/A	9, 10	[ ]Yes [ ]No [ ] N/A
Support of one and only one of these options is req	uired.			
Support of at least one of these options is required.				
Support of at least one of these options is required.				
	Does the implementation  Type of implementation  not used support user requirements? support network requirements? support requirements at the coincident S and T reference point? support requirements for interworking with private ISDNs at the T reference point? support user requirements at the interface of the controlling user? support user requirements at the interface of a receiving user? support network requirements at the interface of the controlling user? support network requirements at the interface of a receiving user? support of one and only one of these options is required.	Does the implementation  Type of implementation  not used support user requirements? support network requirements? support requirements at the coincident S and T reference point? support requirements for interworking with private ISDNs at the T reference point? support user requirements at the interface of the controlling user? support user requirements at the interface of a R 2.1 NOT R 2.1 support user requirements at the interface of a R 2.1 NOT R 2.1 support network requirements at the interface of the controlling user? support network requirements at the interface of R 2.2 NOT R 2.2 support network requirements at the interface of a R 2.2	Type of implementation  Type of implementation  not used  support user requirements?  support network requirements?  support requirements at the coincident S and T reference point?  support requirements for interworking with private ISDNs at the T reference point?  support user requirements at the interface of the controlling user?  support user requirements at the interface of a R 2.1 O.3 NOT R 2.1 N/A support user requirements at the interface of a R 2.1 NOT R 2.1 N/A support network requirements at the interface of R 2.2 NOT R 2.2 N/A support network requirements at the interface of R 2.2 NOT R 2.2 N/A support network requirements at the interface of R 2.2 NOT R 2.2 N/A support network requirements at the interface of R 2.2 NOT R 2.2 N/A support of one and only one of these options is required.  Support of at least one of these options is required.	Type of implementation  Type of implementation  not used  support user requirements?  support network requirements?  support requirements at the coincident S and T reference point?  support requirements for interworking with private ISDNs at the T reference point?  support user requirements at the interface of the controlling user?  support user requirements at the interface of a receiving user?  support network requirements at the interface of a R 2.1 O.3 9, 10 NOT R 2.1 N/A  support network requirements at the interface of R R 2.2 N/A  support network requirements at the interface of R R 2.2 N/A  support network requirements at the interface of R R 2.2 N/A  support network requirements at the interface of R R 2.2 N/A  support of one and only one of these options is required.

## 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 activation procedure?	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		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	support the procedures associated with the provision of the message waiting indication when the receiving user is in a private network?	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 NOT (R3.2 AND R 4.2)	M N/A	7.1, 10.3.1	[ ]Yes [ ]No [ ] N/A
P 1.2	MWIActivate return result?	R 4.1 NOT R 4.1	M N/A	7.1, 9.1.1, 10.1.1	[ ]Yes [ ]No [ ] N/A
P 1.3	MWIActivate return error?	R 4.1 NOT R 4.1	M N/A	7.1, 9.1.2, 10.1.2	[ ]Yes [ ]No [ ] N/A
P 2.1	MWIDeactivate invoke?	R 3.2 AND R 4.2 NOT (R3.2 AND R 4.2)	M N/A	7.1, 10.4.1	[ ]Yes [ ]No [ ] N/A
P 2.2	MWIDeactivate return result?	R 4.1 NOT R 4.1	M N/A	7.1, 9.2.1, 10.2.1	[ ]Yes [ ]No [ ] N/A
P 2.3	MWIDeactivate return error?	R 4.1 NOT R 4.1	M N/A	7.1, 9.2.2, 10.2.2	[ ]Yes [ ]No [ ] N/A
P 3.1	MWIIndicate invoke?	R 3.1 AND R 4.2 NOT (R3.1 AND R 4.2)	M N/A	7.1, 9.5.1	[ ]Yes [ ]No [ ] N/A
Comments:			•	•	•

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

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

A.7.5

Timers

Table A.5: Timers - user

Item	Timers:	Conditions for status	Status	Reference	Support
	Does the implementation support				
TM 1	T-ACTIVATE?	R 4.1	M	9.1.1	[]Yes[]No[]
		NOT R 4.1	N/A		N/A
TM 2	T-DEACTIVATE?	R 4.1	М	9.2.1	[]Yes[]No[]
		NOT R 4.1	N/A		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 activation procedure?	R 3.1 AND R 4.3 NOT (R 3.1 AND R 4.3)	M N/A	9.1	[ ]Yes [ ]No [ ] N/A
MC 7	support the message waiting indication deactivation procedure?	R 3.1 AND R 4.3 NOT (R 3.1 AND R 4.3)	M N/A	9.2	[ ]Yes [ ]No [ ] N/A
MC 8	support the message waiting indication invocation procedure?	R 3.1 AND R 4.4 NOT (R 3.1 AND R 4.4)	M N/A	9.3, 9.4, 9.5	[ ]Yes [ ]No [ ] N/A
MC 9	support the procedures associated with the provision of message waiting indication when the controlling user is in a private network?	R 3.2 AND R 4.3 NOT (R 3.2 AND R 4.3)	M N/A	10.1, 10.2	[ ]Yes [ ]No [ ] N/A
MC 10	support the procedures associated with the provision of the message waiting indication when the receiving user is in a private network?	R 3.2 AND R 4.4 NOT (R 3.2 AND R 4.4)	M N/A	10.3, 10.4	[ ]Yes [ ]No [ ] N/A
MC 11	support subscription option for registration of the ISDN numbers(s) of the controlling user(s)?	R 3.1 AND R 4.4 NOT (R 3.1 AND R 4.4)	O N/A	6.1	[ ]Yes [ ]No [ ] N/A
MC 12	Provide additional information during deferred invocation?	R 3.1 AND R 4.4 NOT (R 3.1 AND R 4.4)	O N/A	6.1	[ ]Yes [ ]No [ ] N/A
Comments:	quelence invocation.	HOT (NO.1 AND N 4.4)	14/7		13/73

## A.8.2 Subsidiary capabilities

Table A.7: Subsidiary capabilities - network

Does the implementation  SC 1 support the invocation on outgoing call R 3.1 AND R 4.4 M 9.5.1.2 procedure? NOT (R 3.1 AND R 4.4) N/A	[ ]Yes [ ]No [
procedure? NOT (R 3.1 AND R 4.4) N/A	
CC 0	N/A
SC 2 support the invocation on R 3.1 AND R 4.4 M 9.5.1.1 (de)activation procedure? NOT (R 3.1 AND R 4.4) N/A	[ ]Yes [ ]No [ N/A
Comments:	

#### 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	М	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	M	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:	•				
Ì					

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:

## A.8.5 Timers

Table A.10: Timers - network

Item	Timers:	Conditions for status		Reference	Support
	Does the implementation support				
TM 3	T-ACTIVATE?	R 3.2 AND R 4.3	M	10.3.1	[]Yes[]No[]
		NOT (R 3.2 AND R 4.3)	N/A		N/A
TM 4	T-DEACTIVATE?	R 3.2 AND R 4.3	М	10.4.1	[]Yes[]No[]
		NOT (R 3.2 AND R 4.3)	N/A		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 EN 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 the present document. "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 EN 300 196-2 [4]. All references are to EN 300 745-1 [5] unless otherwise stated.

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.1: Major capabilities - user (from EN 300 196-2)

Table B.2: Messages transmitted - user (from EN 300 196-2)

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 EN 300 196-2)

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 EN 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?	-	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 EN 300 196-2 [4]. All references are to EN 300 745-1 [5] unless otherwise stated.

Table B.5: Major capabilities - network (from EN 300 196-2)

Item	Major capability:	Status	SS conditions for status	SS status	Reference
	Does the implementation support	base			
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 EN 300 196-2)

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

Table B.7: REGISTER PDU parameters transmitted - network (from EN 300 196-2)

Item	Major capability: Does the implementation support	Status base	SS conditions for status	SS status	Reference
IETn 5.4	Facility?			M N/A	10; [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 EN 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?	0			12; [1] 5.2, 5.17, 5.34, 5.35, 5.36, 5.44, 5.45

## Annex C (informative): Changes with respect to the previous ETS 300 745-2

The following changes have been done:

- conversion to EN layout;
- replacement of references to ETS 300 102 with EN 300 403;
- replacement of references to I-ETSs with EN 300 403;
- substitution of non-specific references to basic standards where the intention is to refer to the latest version.

## History

Document history				
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