

Final draft **EN 302 094-2** V1.1.2 (1999-06)

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*European Standard (Telecommunications series)*

**Integrated Services Digital Network (ISDN);  
Digital Subscriber Signalling System No. one (DSS1) and  
Signalling System No.7 (SS7) protocols;  
Call Forwarding on Not Reachable (CFNRc) supplementary  
service for Cordless Terminal Mobility (CTM) phase 1;  
Part 2: Protocol Implementation Conformance  
Statement (PICS) proforma specification**

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**Postal address**

F-06921 Sophia Antipolis Cedex - FRANCE

---

**Office address**

650 Route des Lucioles - Sophia Antipolis  
Valbonne - FRANCE  
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16  
Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

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secretariat@etsi.fr  
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Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

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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 Voting phase of the ETSI standards Two-step Approval Procedure.

The present document is part 2 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) and Signalling System No.7 (SS7) protocols; Call forwarding on not reachable supplementary service for CTM phase 1, as described below:

Part 1: "Protocol specification";

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

<b>Proposed national transposition dates</b>	
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

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## Introduction

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

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# 1 Scope

The present document provides the ICS proforma for the signalling application for the mobility management service for the phase 1 of Call Forwarding on Not Reachable (CFNRc) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunication operators at the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [2]) 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 [1]).

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the signalling application for the mobility management service for the phase 1 of CFNRc supplementary service specified in EN 302 094-1 [8] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [10].

The supplier of a protocol implementation which is claimed to conform to EN 302 094-1 [8] 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 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- 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] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - reference configurations".
- [3] EN 300 196-1 (V1.2): "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 (1996): "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 300 403-1 (V1.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [6] EN 300 403-3 (V1.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [7] EN 301 144-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) and Signalling System No. 7 (SS7) protocols; Signalling application for the mobility management service on the alpha interface; Part 1: Protocol specification".

- [8] EN 302 094-1 (V1.1): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) and Signalling System No.7 (SS7) protocols; Call Forwarding on Not Reachable (CFNRc) supplementary service for Cordless Terminal Mobility (CTM) phase 1; Part 1: Protocol specification".
- [9] ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [10] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [11] 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 Definitions

For the purposes of the present document, the following terms and definitions apply:

- terms defined in EN 301 144-1 [7];
- terms defined in ISO/IEC 9646-1 [9] and in ISO/IEC 9646-7 [10].

In particular, the following terms defined in ISO/IEC 9646-1 [9] apply:

**Implementation Conformance Statement (ICS):** statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The PICS can take several forms: protocol PICS, profile PICS, profile specific PICS, information object PICS, etc.

**ICS proforma:** document, in the form of a questionnaire, which when completed for an implementation or system becomes an PICS.

**Protocol ICS (PICS):** ICS for an implementation or system claimed to conform to a given protocol specification.

### 4 Abbreviations

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

DSS1	Digital Subscriber Signalling System No. One
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
MC	Major Capabilities
OSI	Open Systems Interconnection
P	Parameters
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
R	Role
SC	Subsidiary Capabilities
SCS	System Conformance Statement
SUT	System Under Test

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## 5 Conformance to this PICS proforma specification

If it claims to conform to the present document, the actual PICS proforma to be filled in by a supplier shall be technically equivalent to the text of the PICS proforma given in annex A, and shall preserve the numbering/naming and ordering of the proforma items.

An PICS which conforms to the present document shall be a conforming PICS proforma completed in accordance with the guidance for completion given in clause A.1.



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## Annex A (normative): PICS proforma for EN 302 094-1

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.
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### 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 [9] is a document supplied by the client or product supplier that summarizes which Open Systems Interconnection (OSI) standards are implemented and to which conformance is claimed. The PICS/SCS clause 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 (R) clause and thereafter is presented in two parts (for user and network) with the following subclauses, as required:

- Major Capabilities (MC);
- Subsidiary Capabilities (SC);
- Protocol Data Unit (PDU) support;
- PDU Parameters (P);
- 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 Rs subclause 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 [10].

The reference column contained in the tables gives reference to the appropriate part(s) of EN 302 094-1 [8] (unless another numbered reference is explicitly indicated) 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 302 094-1 [8] (or any other possibly used reference) 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 [10], 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 [10], 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 Date of the statement

.....

### A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

### A.2.3 System Under Test (SUT) identification

SUT name:

.....

.....

Hardware configuration:

.....  
.....  
.....

Operating system:

.....  
.....

## A.2.4 Product supplier

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....  
.....  
.....

## A.2.5 Client

Name:

.....

Address:

.....  
.....  
.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

## A.2.6 PICS contact person

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

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## A.3 PICS/SCS relationship

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:

**EN 302 094-1 (V1.1):** "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol and Signalling System No.7 (SS7) protocols; Call Forwarding on Not Reachable (CFNRc) supplementary service for Cordless Terminal Mobility (CTM) phase 1; Part 1: Protocol specification".

## A.5 Global statement of conformance

Are all mandatory capabilities implemented? (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.

## A.6 Rs

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

Item	Major R: Does the implementation...	Conditions for status	Status	Reference	Support
<b>Type of implementation</b>					
R 1.1	support the CFNRc supplementary service for the "CTM" mode?		O.1		[ ]Yes [ ]No
R 1.2	support the CFNRc supplementary service for the "DECT access to GSM" mode?		O.1		[ ]Yes [ ]No
R 2.1	support user requirements?		O.2	9, 10	[ ]Yes [ ]No
R 2.2	support network requirements?		O.2	9, 10	[ ]Yes [ ]No
R 3.1	support requirements at the coincident S and T reference point?	R 2.2 R 2.1	O.3 O.4	9	[ ]Yes [ ]No
R 3.2	support procedures for interworking with private ISDN at the T reference point?	R 2.2 R 2.1	O.3 O.4	10	[ ]Yes [ ]No
O.1	Support of at least one of these options is required.				
O.2	Support of one and only one of these options is required.				
O.3	Support of at least one of these options is required.				
O.4	Support of one and only 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 above is supported.

### A.7.1 MC

Table A.2: MC - user

Item	Major capability: Does the implementation support...	Conditions for status	Status	Reference	Support
MC 1	the request for the registration, erasure, activation, deactivation and interrogation of the CFNRC supplementary service?	R 3.1 R 3.2	M M	9.1.1, 10.6	[ ]Yes [ ]No
MC 2	notification of diversion to the calling user?		O	9.2.2	[ ]Yes [ ]No
MC 3	diverting number releas to the diverted-to user	R 3.1 R 3.2	O O	9.2.5, 10.2	[ ]Yes [ ]No [ ]Yes [ ]No
MC 4	the procedures where a call from the public ISDN is diverted within or beyond the private ISDN?	R 3.2 NOT R 3.2	O N/A	10.1	[ ]Yes [ ]No [ ]N/A
MC 5	the procedures where a diverted from a private ISDN call is presented to the public ISDN?	R 3.2 NOT R 3.2	O N/A	10.4	[ ]Yes [ ]No [ ]N/A
MC 6	the procedures where a call from the public ISDN is diverted within or beyond the private ISDN and partial rerouteing takes place in the public ISDN?	R 3.2 NOT R 3.2	O N/A	10.5	[ ]Yes [ ]No [ ]N/A
Comments:					

### A.7.2 SC

No items requiring response.

### A.7.3 PDUs

No items requiring response.

## A.7.4 PDU P

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

Item	Facility information element components: Does the implementation support...	Conditions for status	Status	Reference	Support
P 1	EncapsulatedStimulus invoke?		M	annex B, 9.1.1, 10.6	[ ]Yes [ ]No
P 2.1	CallRerouteing return result?	MC 6 NOT MC 6	M N/A	10.5	[ ]Yes [ ]No [ ]N/A
P 2.2	CallRerouteing return error?	MC 6 NOT MC 6	M N/A	10.5	[ ]Yes [ ]No [ ]N/A
P 3	DivertingLegInformation2 invoke?	R 3.2 AND MC 3 NOT MC 3	M N/A	10.2	[ ]Yes [ ]No [ ]N/A
P 4	DivertingLegInformation3 invoke?	MC 5 NOT MC 5	M N/A	10.4	[ ]Yes [ ]No [ ]N/A
Comments:					

**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 5	EncapsulatedStimulus invoke?		M N/A	annex B, 9.1.1, 10.6	[ ]Yes [ ]No
P 5	CallRerouteing invoke?	MC 6 NOT MC 6	M N/A	10.5	[ ]Yes [ ]No [ ]N/A
P 5	DivertingLegInformation1 invoke?	MC 4 NOT MC 4	M N/A	10.1	[ ]Yes [ ]No [ ]N/A
P 5	DivertingLegInformation2 invoke?	MC 5 NOT MC 5	M N/A	10.4	[ ]Yes [ ]No [ ]N/A
P 5	DivertingLegInformation3 invoke?	MC 4 OR (MC 3 AND R 3.2) NOT (MC 4 OR (MC 3 AND R 3.2))	M N/A	10.1, 10.2	[ ]Yes [ ]No [ ]N/A
Comments:					

## A.7.5 Timers

No items requiring response.

## 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 above is supported.

### A.8.1 MC

Table A.5: MC - network

Item	Major capability: Does the implementation support...	Conditions for status	Status	Reference	Support
MC 7	the request for the registration, erasure, activation, deactivation and interrogation of the CFNRC supplementary service?		M	9.1.1, 10.6	[ ]Yes [ ]No
MC 8	the procedures associated with the notification of the diversion to the calling network?		O	9.2.1, 9.2.2, 10.3	[ ]Yes [ ]No
MC 9	the procedures associated with the release of the diverting number to the diverted-to user?		O	9.2.5	[ ]Yes [ ]No
MC 10	the procedures where a call from the public ISDN is diverted within or beyond the private ISDN?	R 3.2 NOT R 3.2	M N/A	10.1	[ ]Yes [ ]No [ ]N/A
MC 11	the procedures where a diverted call from a public ISDN is presented to the private ISDN?	R 3.2 NOT R 3.2	M N/A	10.2	[ ]Yes [ ]No [ ]N/A
MC 12	the procedures where a diverted call from a private ISDN call is presented to the public ISDN?	R 3.2 NOT R 3.2	M N/A	10.4	[ ]Yes [ ]No [ ]N/A
MC 13	the procedures where a call from the public ISDN is diverted within or beyond the private ISDN and partial rerouting takes place in the public ISDN?	R 3.2 NOT R 3.2	O N/A	10.5	[ ]Yes [ ]No [ ]N/A
MC 14	the procedures where a call from the public ISDN to the private ISDN is diverted by the public ISDN?	R 3.2 NOT R 3.2	M N/A	10.6	[ ]Yes [ ]No [ ]N/A
MC 15	the procedures of interactions with other networks?		M	11	[ ]Yes [ ]No
Comments:					

### A.8.2 SC

No items requiring response.

### A.8.3 PDUs

No items requiring response.



## A.8.4 PDU P

**Table A.6: Facility information element components received by the network**

Item	Facility information element components: Does the implementation support...	Conditions for status	Status	Reference	Support
P 10	EncapsulatedStimulus invoke?		M	annex B, 9.1.1, 10.6	[ ]Yes [ ]No [ ]N/A
P 10	CallRerouteing invoke?	MC 13 NOT MC 13	M N/A	10.5	[ ]Yes [ ]No [ ]N/A
P 10	DivertingLegInformation1 invoke?	R 3.2 NOT R 3.2	M N/A	10.1	[ ]Yes [ ]No [ ]N/A
P 10	DivertingLegInformation2 invoke?	R 3.2 NOT R 3.2	M N/A	10.4	[ ]Yes [ ]No [ ]N/A
P 10	DivertingLegInformation3 invoke?	R 3.2 NOT R 3.2	M N/A	10.1, 10.2	[ ]Yes [ ]No [ ]N/A
Comments:					

**Table A.7: Facility information element components transmitted by the network**

Item	Facility information element components: Does the implementation support...	Conditions for status	Status	Reference	Support
P 15	EncapsulatedStimulus invoke?		M N/A	annex B, 9.1.1, 10.6	[ ]Yes [ ]No [ ]N/A
P 15	CallRerouteing return result?	MC 13 NOT MC 13	M N/A	10.5	[ ]Yes [ ]No [ ]N/A
P 15	CallRerouteing return error?	MC 13 NOT MC 13	M N/A	10.5	[ ]Yes [ ]No [ ]N/A
P 15	DivertingLegInformation2 invoke?	R 3.2 NOT R 3.2	M N/A	10.2	[ ]Yes [ ]No [ ]N/A
P 15	DivertingLegInformation3 invoke?	R 3.2 NOT R 3.2	M N/A	10.4	[ ]Yes [ ]No [ ]N/A
Comments:					

## A.8.5 Timers

No items requiring response.

## 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 302 094-1 [8]. No support column is provided as the answers are to be entered in the relevant base PIC 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

In the tabulations which follow in this subclause all item numbers are as contained in EN 300 403-3 [6]. All references are to draft EN 302 094-1 [8] unless otherwise stated.

**Table B.1: MC - user (from EN 300 403-3 [6])**

Item	Major R: Does the implementation	Condition for status	Status base	Status	Reference
MC 1	outgoing calls?		O	M	[5] 5.1
Comments:					

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

In the tabulations which follow in this subclause all item numbers are as contained in I-ETS 300 196-2 [4]. All references are to draft EN 302 094-1 [8] unless otherwise stated.

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

Item	Major R: Does the implementation.....	Condition for status	Status base	Status	Reference
MCu 1	the functional protocol (networking facility extension) for the control of mobility management functions?		O	M	[4]
MCu 1	bearer related transport mechanism?		O	M	[4]
Comments:					

**Table B.3: Messages transmitted - user (from ETS 300 196-2 [4])**

Item	Major R: Does the implementation.....	Condition for status	Status base	Status	Reference
MTu 1	the inclusion of FACILITY?		C	M	[3]

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

Item	Major R: Does the implementation.....	Condition for status	Status base	Status	Reference
IETu 5.4	Facility?		M	M	[3]

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

In the tabulations which follow in this subclause all item numbers are as contained in EN 300 195-2 [11]. All references are to EN 302 094-1 [8] unless otherwise stated.

No items requiring response.

---

## B.2 Network

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

In the tabulations which follow in this subclause all item numbers are as contained in EN 300 403-3 [6]. All references are to draft EN 302 094-1 [8] unless otherwise stated.

**Table B.5: MC - network (from EN 300 403-3 [6])**

Item	Major R: Does the implementation	Condition for status	Status base	Status	Reference
MC 1	outgoing calls?		O	M	[5] 5.1
Comments:					

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

In the tabulations which follow in this subclause all item numbers are as contained in I-ETS 300 196-2 [4]. All references are to draft EN 302 094-1 [8] unless otherwise stated.

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

Item	Major R: Does the implementation.....	Condition for status	Status base	Status	Reference
MCn 1	the functional protocol (networking facility extension) for the control of mobility management functions?		O	M	[4]
MCn 2	bearer related transport mechanism?		O	M	[4]
Comments:					

**Table B.7: Messages transmitted - network (from ETS 300 196-2 [4])**

Item	Major R: Does the implementation.....	Condition for status	Status base	Status	Reference
MTn 1	the inclusion of FACILITY?		C	M	[3]

**Table B.8: FACILITY transmitted - user (from ETS 300 196-2 [4])**

Item	Major R: Does the implementation.....	Condition for status	Status base	Status	Reference
IETn 5.4	Facility?		M	M	[3]

### B.2.3 Requirements on items used in the supplementary service interactions PICS

No items requiring response.

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## Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- EN 300 207-1 (V1.2): "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling No. one (DSS1) protocol; Part 1: Protocol specification".
- EN 300 207-2 (V1.2): "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

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## History

<b>Document history</b>				
V1.1.1	January 1999	Public Enquiry	PE 9920:	1999-01-15 to 1999-05-14
V1.1.2	June 1999	Vote	V 9935:	1999-06-14 to 1999-08-27