ETSI

FINAL DRAFT

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Intelligent Network (IN);
Intelligent Network Capability Set 1 (CS1);
Core Intelligent Network Application Protocol (INAP);
Part 5: Protocol specification for the Service Control Function (SCF) - Service Data Function (SDF) interface

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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 based on the latest version of ITU-T Recommendation Q.1218.

This ETS is part 5 of a multi-part standard covering the Capability Set 1 (CS1) core Intelligent Network Protocol (INAP) 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 Service Switching Function (SSF) and Specialized Resource Function (SRF)";

Part 4:   "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for SSF and SRF";

Part 5:   "Protocol specification for the Service Control Function (SCF) - Service Data Function (SDF) interface";

Part 6:   "PICS proforma specification for the SCF-SDF interface".

Proposed transposition 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

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1 Scope

This fifth part of ETS 300 374 provides an extension of the core Intelligent Network Application Protocol (INAP) of Intelligent Network (IN) Capability Set 1 (CS1) as specified in ETS 300 374-1 [4]. It supports interactions between the following two Functional Entities (FEs), as defined in the Intelligent Network (IN) functional model:

- Service Control Function (SCF);
- Service Data Function (SDF).

This ETS is intended as a guide to implementors and network operators to ensure interworking between different manufacturers equipment for the IN CS1 SCF-SDF interface and between network operators for the same interface.

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.

[1]   ITU-T Recommendation Q.1218 (1995): "Interface Recommendation for intelligent network CS-1".

[2]   ETS 300 009-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Signalling Connection Control Part (SCCP) (connectionless and connection-oriented class 2) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.711 to Q.714 and Q.716 (1993), modified]".

[3]   ETS 300 287-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Transaction Capabilities (TC) version 2; Part 1: Protocol specification [ITU-T Recommendations Q.771 to Q.775 (1993), modified]".

[4]   ETS 300 374-1 (1994): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".

3 Abbreviations

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

CS1   Capability Set 1
FE   Functional Entity
FSM   Finite State Machine
IN   Intelligent Network
INAP   Intelligent Network Application Protocol
SCF   Service Control Function
SDF   Service Data Function
SDL   Specification and Description Language

4   Segmentation and re-assembly of INAP messages

If segmentation and re-assembly of INAP messages is required on the SCF-SDF interface due to the length of messages, the segmentation and re-assembly procedures for SCCP connectionless messages as specified in ETS 300 009-1 [2] shall be used.

5   IN X.500 directory access protocol subset

The text of ITU-T Recommendation Q.1218 [1] subclause 2.2 is endorsed by ETSI with the following modifications:

All references to ITU-T Recommendations Q.771, Q.772, Q.773, Q.774 and Q.775 shall be replaced by references to ETS 300 287-1 [3].

6   SCF and SDF Finite State Machines (FSMs)

The text of ITU-T Recommendation Q.1218 [1] subclauses 3.1.2.5.5 and 3.1.4 is endorsed by ETSI with the following modifications:

All references to ITU-T Recommendation Q.771 shall be replaced by references to ETS 300 287-1 [3] and all references to ITU-T Recommendation Q.711 shall be replaced by references to ETS 300 009-1 [2].

7   SDF operations and errors

The text of ITU-T Recommendation Q.1218 [1] subclauses 3.2.1.1, 3.2.1.8, 3.2.1.11, 3.2.1.12, 3.2.1.21, 3.3.3, 3.3.9, 3.3.27, 3.3.35, 3.3.42 and 3.3.54 is endorsed by ETSI.

8   SDL diagrams for SCF and SDF FSMs

The text of ITU-T Recommendation Q.1218 [1] annex B is endorsed by ETSI.

History

Document history			
August 1995	Public Enquiry	PE 89:	1995-08-07 to 1995-12-01
September 1996	Vote	V 111:	1996-09-23 to 1996-11-15