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**Intelligentno omrežje (IN) - Prvi nabor zmožnosti (CS1) inteligentnega omrežja - Jedrni aplikacijski protokol inteligentnega omrežja (INAP) - 4. del: Abstraktni preskušalni niz (ATS) in delna dodatna informacija za preskušanje izvedbe protokola (PIXIT) - Proforma specifikacije za funkcijo komutacije storitev (SSF) in funkcijo posebnih virov (SRF)**

Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 4: Abstract Test Suite (ATS) and partial Protocol Implementation Extra Information for Testing (PIXIT) proforma specification for Service Switching Function (SSF) and Specialized Resource Function (SRF)

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Intelligent Network Capability Set 1 (CS1);  
Core Intelligent Network Application Protocol (INAP);  
Part 4: Abstract Test Suite (ATS) and partial Protocol  
Implementation eXtra Information for Testing (PIXIT) proforma  
specification for Service Switching Function (SSF) and  
Specialized Resource Function (SRF)**

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## Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocol and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is part 4 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".

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## 1 Scope

This fourth part of ETS 300 374 provides the Abstract Test Suite (ATS), the Abstract Test Method (ATM), ATS conventions, the partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma and the Protocol Conformance Testing Report (PCTR) proforma for the Service Switching Function (SSF) and the Specialized Resource Function (SRF) of the core Intelligent Network Application Protocol (INAP) of Intelligent Network (IN) Capability Set 1 (CS1) according to ETS 300 374-1 [1].

The objective of the ETS is to provide a standardized ATS for SSF and SRF conformance tests which give a reasonable probability of inter-operability between IN components from different manufacturers over the core INAP interfaces.

Annex A provides a partial PIXIT proforma.

Annex B includes a PCTR proforma.

Annex C provides an ATS for SSF and SRF. The specification of the Test Cases (TCs) in the ATS is based on the dynamic conformance requirements specified in ETS 300 374-3 [3]. The TCs provide the implementation of the TPs in TTCN.

ISO/IEC 9646, parts 1 to 5 [4 to 8] and ETS 300 406 [9] are used as the basis for the test methodology.

## 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.

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- [1] ETS 300 374-1 (1994): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".  
<https://standards.iteh.ai/catalog/standards/sist/334e8352-b801-41e0-bfc1-1785bf457572/sist-ets-300-374-4-1998>
- [2] ETS 300 374-2 (1996): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [3] ETS 300 374-3 (1997): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for Service Switching Function (SSF) and Specialized Resource Function (SRF)".
- [4] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [5] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite Specification".
- [6] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [7] ISO/IEC 9646-4: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realization".
- [8] ISO/IEC 9646-5: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process".

- [9] ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [10] ETS 300 287 (1993): "Integrated Services Digital Network (ISDN); Signalling System No.7; Transaction Capabilities Application Part (TCAP) version 2".
- [11] ITU-T Recommendation Q.771 (1993): "Specification of signalling system No.7; Functional description of transaction capabilities".
- [12] ITU-T Recommendation Q.772 (1993): "Specification of signalling system No.7; Transaction capabilities information element definitions".
- [13] ITU-T Recommendation Q.773 (1993): "Specification of signalling system No.7; Transaction capabilities formats and encoding".
- [14] ITU-T Recommendation Q.774 (1993): "Specification of signalling system No.7; Transaction capabilities procedures".
- [15] ITU-T Recommendation Q.775 (1993): "Specification of signalling system No.7; Guidelines for using transaction capabilities".
- [16] ISO/IEC 9545 (1989): "Information technology - Open Systems Interconnection - Application layer structure".
- [17] ETS 300 008: "Integrated Service Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection".
- [18] ETS 300 009: "Integrated Service Digital Network (ISDN); Signalling System No.7; Signalling Connection Control Part (SCCP) [connectionless service] to support international interconnection".

### 3 Definitions and abbreviations

#### 3.1 Definitions

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For the purposes of this ETS, the following definitions apply, together with those given in ETS 300 374-1 [1] and ETS 300 374-3 [3]:

**Abstract Test Case (ATC):** Refer to ISO/IEC 9646-1 [4].

NOTE: In this ETS, the commonly used term TC is applied in the same way as ATC.

**Abstract Test Suite (ATS):** Refer to ISO/IEC 9646-1 [4].

**Client (of a test laboratory):** Refer to ISO/IEC 9646-1 [4].

**dynamic conformance requirements:** Refer to ISO/IEC 9646-1 [4].

**Implementation Under Test (IUT):** Refer to ISO/IEC 9646-1 [4].

**IN component:** A physical component of the intelligent network which has one of the following form: a SCP, a SSP, an IP or a SDP.

**INAP interface:** An interface of an IN component at which the core INAP applies. An INAP interface is either a SCF-SSF, or a SCF-SRF, or a SCF-SDF interface.

**Lower Tester (LT):** Refer to ISO/IEC 9646-1 [4].

**Multi-Party Testing (MPyT) context:** Refer to ISO/IEC 9646-1 [4].

**non-INAP interface:** An interface an IN component has, is not the one of the core INAP interfaces.

**PCTR proforma:** Refer to ISO/IEC 9646-1 [4].

**PICS proforma:** Refer to ISO/IEC 9646-1 [4].

**PIXIT proforma:** Refer to ISO/IEC 9646-1 [4].

**Point Of Control And Observation (PCO):** Refer to ISO/IEC 9646-1 [4].

**Protocol Implementation Conformance Statement (PICS):** Refer to ISO/IEC 9646-1 [4].

**Protocol Implementation eXtra Information For Testing (PIXIT):** Refer to ISO/IEC 9646-1 [4].

**remote test method:** Refer to ISO/IEC 9646-1 [4].

**Single-Party Testing (SPyT) context:** Refer to ISO/IEC 9646-1 [4].

**System Under Test (SUT):** Refer to ISO/IEC 9646-1 [4].

**test event:** Refer to ISO/IEC 9646-1 [4].

**test laboratory:** Refer to ISO/IEC 9646-1 [4].

**Test Purpose (TP):** Refer to ISO/IEC 9646-1 [4].

**test system:** Refer to ISO/IEC 9646-1 [4].

### 3.2 Abbreviations

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

aC	SCF Assist with relay handling
aS	Assisting SSF
ASE	Application Service Element
ASP	Abstract Service Primitives
ATM	Abstract Test Method
ATC	Abstract Test Case
ATS	Abstract Test Suite
bC	Basic SCF
BI	Invalid Behaviour
BO	Inopportune Behaviour
bS	tests for SSP basic functions
BV	Valid Behaviour
CA	Capability tests
cD	Non-integrated SDF
cl	IP with direct path to SCP
CM	Co-ordination Message
CP	Co-ordination Point
dC	SCF-SDF handling
FE	Functional Entity
FSM	Finite State Machine
IE	Information Element
iS	Initiating SSF
ISUP	ISDN User Part
IT	basic Interconnection Tests
IUT	Implementation Under Test
LT	Lower Tester
MPyT	Multi-Party Testing
MTP	Message Transfer Part
pC	SCF direct path IP handling
PCO	Point of Control and Observation
PCTR	Protocol Conformance Test Report
PDU	Protocol Data Unit