



# SLOVENSKI STANDARD

## SIST EN 301 152-1:2000

01-januar-2000

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**Intelligentno omrežje (IN) - Razširitev prvega nabora zmožnosti inteligentnega omrežja (CS1) - Aplikacijski del inteligentnega omrežja (INAP) - Uporabniške aplikacije za izboljšano logiko mobilnega omrežja (CAMEL) - 1. del: Specifikacija protokola**

Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1) extension; Intelligent Network Application Protocol (INAP); Customised Applications for Mobile network Enhanced Logic (CAMEL); Part 1: Protocol specification

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**Ta slovenski standard je istoveten z: EN 301 152-1 Version 1.2.2**

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**ICS:**

33.040.40	Podatkovna komunikacijska omrežja	Data communication networks
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# EN 301 152-1 V1.2.2 (1998-09)

*European Standard (Telecommunications series)*

**Intelligent Network (IN);  
IN Capability Set 1 (CS1) extension;  
Intelligent Network Application Protocol (INAP);  
Customized Applications for  
Mobile network Enhanced Logic (CAMEL);  
Part 1: Protocol specification**

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**Reference**

DEN/SPS-03052-1 (ao090ipc.PDF)

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**Keywords**

IN, INAP, ISDN, mobile, protocol

**ETSI**

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Sous-Préfecture de Grasse (06) N° 7803/88

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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS).

The present document is part 1 of a multi-part standard covering the IN Capability Set 1 (CS1) extension; Intelligent Network Application Protocol (INAP); Customized Applications for Mobile network Enhanced Logic (CAMEL) as described below:

**Part 1:** "Protocol specification";

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

NOTE: Further parts of the present document may be identified later.

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### National transposition dates

Date of adoption of this EN:	<a href="https://standards.itech.ai/catalog/standards/sist/38419b28-cced-4268-a6e2-5e15ca3e/sist-en-301-152-1-2000">SIST EN 301 152-1:2000</a>	18 September 1998
Date of latest announcement of this EN (doa):	<a href="https://standards.itech.ai/catalog/standards/sist/38419b28-cced-4268-a6e2-5e15ca3e/sist-en-301-152-1-2000">https://standards.itech.ai/catalog/standards/sist/38419b28-cced-4268-a6e2-5e15ca3e/sist-en-301-152-1-2000</a>	31 December 1998
Date of latest publication of new National Standard or endorsement of this EN (dop/e):		30 June 1999
Date of withdrawal of any conflicting National Standard (dow):		30 June 1999

# 1 Scope

This first part of EN 301 152 specifies the additions for Intelligent Network Application Protocol (INAP) to support the CAMEL Phase 1 Capability. The present document is based on ETS 300 374-1 [19].

ETS 300 374-1 [19] is also taken as an editorial basis for the present document. Only additions and modifications in respect to that ETS are specified in the present document. For Customized Applications for Mobile network Enhanced Logic (CAMEL) only a restricted subset of the protocol aspects of ETS 300 374-1 [19] is necessary. This restriction is not defined in the present document. A profiling of CAMEL, i.e. which protocol aspects are used, is given by EN 301 152-2 [31]. Clauses and subclauses of ETS 300 374-1 [19] for which neither additions nor modifications are made do not appear in the present document. However, to ensure the same clause numbering of the present document as of ETS 300 374-1 [19], deleted clauses and subclauses are numbered implicitly.

As the present document specifies the additions in respect to the SSF it is assumed that the SCF is according to ETS 300 374-1 [19] taking into account the requirements defined in the present document for the SSF.

The protocol specification of the CAMEL Capability in the present document is considered as equivalent to TS 101 046 [28].

# 2 References

References may be made to:

- 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 <https://standards.iteh.ai/catalog/standards/sist/38419b28-cced-4268-a6e2-80bb6e15ca3e/sist-en-301-152-1-2000>
- d) publications without mention of a specific version, in which case 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.

## 2.1 Normative references

The date of the following reference has been modified:

- [11] ITU-T Recommendation Q.1218 (1995): "Interface Recommendation for intelligent network CS1".

The following references are in addition to those of ETS 300 374-1 [19].

- [19] ETS 300 374-1 (1994): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".
- [20] ETS 300 974: "Digital cellular telecommunications system (Phase 2+); Mobile Application Part (MAP) specification (GSM 09.02)".
- [21] ITU-T Recommendation Q.713: "Signalling Connection Control Part formats and codes".
- [22] ITU-T Recommendation X.680 (1994) | ISO/IEC 8824-1 (1995): "Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation
- [23] ITU-T Recommendation X.681 (1994) | ISO/IEC 8824-2 (1995): "Information technology – Abstract Syntax Notation One (ASN.1): Information object specification".
- [24] ITU-T Recommendation X.682 (1994) | ISO/IEC 8824-3 (1995): "Information technology – Abstract Syntax Notation One (ASN.1): Constraint specification".



- [25] ITU-T Recommendation X.683 (1994) | ISO/IEC 8824-4 (1995): "Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications".
- [26] ITU-T Recommendation X.690 (1994) | ISO/IEC 8825-1 (1995): "Information technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".
- [27] ITU-T Recommendation X.880 (1994) | ISO/IEC 13712-1 (1995): "Information technology - Remote Operations: Concepts, model and notation".
- [28] TS 101 046 (V5.5): "Digital cellular telecommunications system (Phase 2+); Customized Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification (GSM 09.78 version 5.5.0)".
- [29] ETS 300 646-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Digital cellular telecommunications system (Phase 2); Application of ISDN User Part (ISUP) version 2 for the ISDN-Public Land Mobile Network (PLMN) signalling interface; Part 1: Protocol specification (GSM 09.12)".
- [30] ETS 300 940: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification (GSM 04.08)".

## 2.2 Informative references

- [31] EN 301 152-2 (V1.2): "Intelligent Network (IN); IN Capability Set 1 (CS1) extension; Intelligent Network Application Protocol (INAP); Customized Applications for Mobile network Enhanced Logic (CAMEL); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [32] TS 101 044 (V5.5): "Digital cellular telecommunications system (Phase 2+); Customized Applications for Mobile network Enhanced Logic (CAMEL) - Stage 2 (GSM 03.78 version 5.5.0)".
- <https://standards.iteh.ai/catalog/standards/sist/38419b28-cced-4268-a6e2-80bb6e15ca3e/sist-en-301-152-1-2000>

## 3 Abbreviations

For the purposes of the present document, the following abbreviations apply in addition to those of ETS 300 374-1 [19]:

ACM	Address Complete Message
CAMEL	Customized Applications for Mobile network Enhanced Logic
CSI	CAMEL Subscription Information
IAM	Initial Address Message
MO	Mobile Originating
OCSI	Originating CSI
REL	Release
TCSI	Terminating CSI

Within the present document the terms gsmSSF and SSF and the terms gsmSCF and SCF respectively are used synonymously.

## 4 General

### 4.1 Definition methodology

For the purpose of the present document, ITU-T Recommendations X.880 [27] and the ITU-T Recommendation for ASN.1 X.680 [22], X.681 [23], X.682 [24], X.683 [25] and X.690 [26] for the basic encoding rules apply.