



**SLOVENSKI STANDARD**  
**SIST EN 301 141-2 V1.2.2:2005**

01-april-2005

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Integrated Services Digital Network (ISDN); Narrowband Multi-service Delivery System (NMDS); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

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**Ta slovenski standard je istoveten z: EN 301 141-2 Version 1.2.2**

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**ICS:**

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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**SIST EN 301 141-2 V1.2.2:2005**      **en**

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# EN 301 141-2 V1.2.2 (1998-09)

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*European Standard (Telecommunications series)*

## **Integrated Services Digital Network (ISDN); Narrowband Multi-service Delivery System (NMDS); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification**

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**Reference**

DEN/SPS-09054-2 (akci0ipc.PDF)

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**Keywords**

NMDS, access, basic, ISDN, PICS, PSTN

**ETSI**

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Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

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 SIST EN 301 141-2 V1.2.2:2005

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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 2 of a multi-part EN covering Narrowband Multi-service Delivery System (NMDS), as identified below:

Part 1: "NMDS interface specification";

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

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#### National transposition dates

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Date of adoption of this EN:	18 September 1998
Date of latest announcement of this EN (doa):	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

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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 a Protocol Implementation Conformance Statement (PICS).

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# 1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the "Narrowband Multi-service Delivery System (NMDS)" defined in EN 301 141-1 [3] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-7 [5] and ETS 300 406 [2].

It allows either the network operator to formulate the requirements for an NMDS implemented in an Access Network (AN) or a Service Node (SN), or to decide whether an implementation meets these requirements. It details in tabular form the implementation options, i.e. the optional functions additional to those which are mandatory to implement.

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# 2 Normative 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
- 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.

- STANDARD PREVIEW**  
**(standards.iteh.ai)**
- [1] ETS 300 012-1 (1996): "Integrated Services Digital Network (ISDN); Basic User Network Interface (UNI); Part 1: Layer 1 specification".  
<https://standards.iteh.ai/catalog/standards/sist/01311ee5-607b-47d9-bf27-0ab07acd72aa:sist-ets-300-012-1-1996>
  - [2] ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications Standardization Methodology".  
<https://standards.iteh.ai/catalog/standards/sist/01311ee5-607b-47d9-bf27-0ab07acd72aa:sist-ets-301-141-2-v1-2-2005>
  - [3] EN 301 141-1 (V1.1): "Narrowband Multi-service Delivery System (NMDS); Part 1: NMDS interface specification".
  - [4] ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
  - [5] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".





## Annex A (normative): Protocol ICS proforma for EN 301 141-1

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 Guidance for completing the PICS proforma

#### A.1.1 Purposes and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in EN 301 141-1 [3] may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into subclauses for the following categories of information:

- guidance for completing the PICS proforma;
- identification of the implementation;
- identification of the protocol;
- global statement of conformance;
- <further subclauses>.

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#### A.1.2 Abbreviations and conventions

ISO Convention 2:2005  
<https://standards.iteh.ai/catalog/standards/sist/01311ee5-607b-47d9-bf27->

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 [5].

##### Item column

The item column contains a number which identifies the item in the table.

##### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

##### Status column

The following notations, defined in ISO/IEC 9646-7 [5], are used for the status column:

m	mandatory - the capability is required to be supported.
o	optional - the capability may be supported or not.
n/a	not applicable - in the given context, it is impossible to use the capability.
x	prohibited (excluded) - there is a requirement not to use this capability in the given context.
o.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies a unique group of related optional items and the logic of their selection which is defined immediately following the table.
ci	conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table.