



SLOVENSKI STANDARD

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Digitalno omrežje z integriranimi storitvami (ISDN) - Signalizacija št. 7 - Krmilni del signalizacijske zveze (SCCP) - Preskušalna specifikacija medsebojne obratovalnosti

Integrated Services Digital Network (ISDN); Signalling System No.7; Signalling Connection Control Part (SCCP); Interoperability test specification

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Signalling System No.7;
Signalling Connection Control Part (SCCP);
Interoperability test specification**



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Foreword

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

National transposition dates	
Date of adoption of this EN:	3 April 1998
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1 Scope

The present document specifies interoperability testing between nodes meeting the requirements of ITU-T Recommendations Q.711 to Q.714 [2] as modified by ETS 300 009-1 [1]. The present document may optionally also be applied within national networks and implementations of earlier versions of ETS 300 009 and the ITU-T Recommendations.

The present document is not meant to restrict national networks. The tests in the present document form a basic set of interoperability tests, and are used in gaining confidence that implementations of the Signalling Connection Control Part (SCCP) can interwork.

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, subsequent revisions do apply.
- 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

- [1] ETS 300 009-1 (1996): "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]".
- [2] ITU-T Recommendations Q.711 to Q.714 (1993): "Signalling Connection Control Part (SCCP)".

2.2 Informative references

- [3] ITU-T Recommendation Q.786 (1993): "SCCP Test Specification".

3 Abbreviations

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

DPC	Destination Point Code
DT1	Data Form 1 message
GT	Global Title
GTAI	Global Title Address Information
MTP	Message Transfer Part
NI	Network Indicator
OPC	Origination Point Code
PC	Point Code
SCCP	Signalling Connection Control Part
SIO	Service Information Octet
SP	Signalling Point
SSA	SubSystem Allowed message
SSN	SubSystem Number
SST	Subsystem Status Test message
UDT	UnitData message
UDTS	UnitData Service message
UPU	User Part Unavailable
XUDT	Extended Unitdata message
XUDTS	Extended UnitData Service message

4 SCCP test specification

Conformance and performance tests are not included in the present document.

4.1 Introduction

The function of interoperability testing is to confirm that different implementations, each of which conforms to ETS 300 009-1 [1], can interwork. These interoperability tests apply in the international network but may also be applied in national networks. Successful conformance or validation testing of SCCP itself, SCCP applications and Message Transfer Part (MTP) is a pre-requisite of interoperability testing. It is recommended that interoperability testing is performed on signalling nodes that are not in service.

Interoperability testing may require the use of a monitor to check the operation of the signalling node(s) under test. The specification of this monitor is not covered by the present document although the general requirements are that the equipment is capable of capturing all data on the signalling link, and preferably be able to decode the information captured into SCCP messages.

The tests in the present document are only a basic set in gaining confidence in the interoperability of SCCP implementations. Specific interconnections may require more interoperability testing than specified here. The specific range of tests performed between nodes is subject to bilateral or multilateral agreement and also dependent on the functionality of the implementations under test. The tests are shown in one direction of testing, thus they should be repeated in the reverse direction for completeness.