



SLOVENSKI STANDARD
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8][]HUbca fYyYn]bhY[f]fUb]a]gkcf]hj Ua]flG8 BŁE'Dfcfc_c`UX][]HUbY
bUfc b]y_Yg][bU]nU]YyH%fB GG%L]b g][bU]nU]YyH+·E'8 cdc`b]bUgkcf]hj.
dcXUU_`]WUZ_c`b]XcgY[`ij cgj]fV : BFWñnUa cV]bcghVfYnj f j] bY[UHñfa]bU
fV HA lžZhU%E) "XY. N[fUXVUdfYg_i ýUbY[Ub]nU]b`bUa Yb`dfYg_i ýUb`U
fHGG/ HDŁE`GdYñZ_UñUñUca fYyY

Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) and Signalling System No.7 (SS7) protocols; Call Forwarding on Not Reachable (CFNRC) supplementary service for Cordless Terminal Mobility (CTM) phase 1; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

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**Integrated Services Digital Network (ISDN);
Digital Subscriber Signalling System No. one (DSS1) and
Signalling System No.7 (SS7) protocols;
Call Forwarding on Not Reachable (CFNRC)
supplementary service for
Cordless Terminal Mobility (CTM) phase 1;
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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 5 of a multi-part deliverable covering the Digital Subscriber Signalling System No. one (DSS1) and Signalling System No.7 (SS7) protocol specification for the Call Forwarding on not reachable supplementary service for CTM phase 1, as identified 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 the user";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";
- Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";**
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- Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

National transposition dates	
Date of adoption of this EN:	7 September 2001
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Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 2002
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1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) at the Network side of Implementations conforming to the stage three standard for the Call Forwarding on Not Reachable (CFNRC) supplementary services for the signalling application for the mobility management service phase 1 protocol, EN 302 094-1 [1].

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on the present document. Other parts specify the TSS&TP and the ATS and partial PIXIT proforma for the User side of implementations conforming to EN 302 094-1 [1].

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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] ETSI EN 302 094-1 (V1.1.3): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) and Signalling System No.7 (SS7) protocols; Call Forwarding on Not Reachable (CFNRC) supplementary service for Cordless Terminal Mobility (CTM) phase 1; Part 1: protocol specification".
- [2] ETSI EN 302 094-2 (V1.1.3): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) and Signalling System No.7 (SS7) protocols; Call Forwarding on Not Reachable (CFNRC) supplementary service for Cordless Terminal Mobility (CTM) phase 1; Part 2: protocol implementation Conformance Statement (PICS) proforma specification".
- [3] ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [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] ETSI I-ETS 300 808: "Private Integrated Services Network (PISN); Cordless Terminal Mobility (CTM); Inter-exchange signalling protocol; Cordless terminal outgoing call additional network feature".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

abstract test case: Refer to ISO/IEC 9646-1.

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

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

implicit send event: Refer to ISO/IEC 9646-3.

lower tester: Refer to ISO/IEC 9646-1.

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

PICS proforma: Refer to ISO/IEC 9646-1.

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1.

Test Purpose (TP): Refer to ISO/IEC 9646-1.

3.2 Abbreviations

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

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APDU	Application Protocol Data Unit
ASN.1	Abstract Syntax Notation no. 1
ATS	Abstract Test Suite SIST EN 302 094-5 V1.1.1:2005
CFNRC	Call Forwarding on Not Reachable/ standards/sist/e8603291-8292-468b-f6bb1/sist-en-302-094-5-v1-1-1-2005
CTM	Cordless Terminal Mobility
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
SS	Supplementary Service
SS-CFNRC	Call Forwarding on Not Reachable Supplementary Service
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure (TSS)

Signalling procedures at the S/T Reference Point	Group
Served user procedures	
Registration	N01
Erasure	N02
Activation	N03
Deactivation	N04
Interrogation	N05
Operation	N07
Calling user procedures	
Notification of diversion	N08
Identification of the diverted-to user	N09
Called (diverted-to) user procedures	
	N10

Figure 1: Test suite structure

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5 Test Purposes (standards.iteh.ai)

5.1 Introduction

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For each requirement a TP is defined.

5.2 TP naming convention

TPs are numbered, starting at 001, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite (see table 1).

Table 1: TP identifier naming convention scheme

Identifier:	<ss>_<group>_<nnn>
<ss>	= supplementary service: "CFNRe"
<group>	= group 'N' for user side and up to 2 digits field representing the group reference according to TSS: (e.g. N02)
<nnn>	= sequential number (001-999)

5.2.1 Source of TP definition

The TPs are based on EN 302 094-1 [1].