Draft ETSI EN 301 799-5 V1.1.1 (2001-02)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN);
Remote Control (RC) supplementary service;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

ETSI

Reference

DEN/SPAN-05117-5

Keywords

ISDN, DSS1, RC, network, supplementary
service, TSS&TP

Important notice

Individual copies of the present document can be downloaded from:
http://www.etsi.org

The present document may be made available in more than one electronic version or in print. In any case of existing or
perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF).
In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive
within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.
Information on the current status of this and other ETSI documents is available at http://www.etsi.org/tb/status/

If you find errors in the present document, send your comment to:
editor@etsi.fr

ETSI

Contents

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://www.etsi.org/ipr).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN), and is now submitted for the Public Enquiry phase of the ETSI standards Two-step Approval Procedure.

The present document is part 5 of a multi-part deliverable covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) Remote Control (RC) service, as described below:

Part 1: "Functional 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";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for the Network side of the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [6]) of implementations conforming to the stage three standard for the Remote Control (RC) service for the pan-European Integrated Services Digital Network (ISDN) by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, EN 301 799-1 [1].

The present document is applicable to testing of network implementations claiming to conform to EN 301 799-1 [1].

A further part of this multi-part standard 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 the T reference point or coincident S and T reference point of implementations conforming to EN 301 799-1 [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, 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.

[1]		ETSI EN 301 799-1 (V1.1.1): "Integrated Services Digital Network (ISDN); Remote Control (RC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Functional protocol specification".

[2]		ETSI EN 301 799-2 (V1.1.1): "Integrated Services Digital Network (ISDN); Remote Control (RC) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

NOTE:	In this draft the RC protocol specification and PICS are referred to as EN 301 799-1 and -2.

[3]		ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 1: General Concepts".

[4]		ISO/IEC 9646-2: "Information Technology - OSI Conformance Testing Methodology and Framework; Part 2: Abstract Test Suite specification".

[5]		ETSI EN 300 196-1 (V1.3.1): " Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[6]		ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".

[7]		ETSI ETS 300 406 (1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document the terms and definitions given in EN 301 799-1 [1], EN 300 196-1 [5], ISO/IEC 9646-1 [3] and the following apply:

network (S/T): DSS1 protocol entity at the Network side of the user-network interface where a coincident S and T reference point applies

network (T): DSS1 protocol entity at the Network side of the user-network interface where a T reference point applies (User is the Private ISDN)

3.2 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
CR	Call Reference
CR1	CR one
DSS1	Digital Subscriber Signalling System No. one
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
RC	Remote Control
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure

The test suite structure is specified in figure 1.
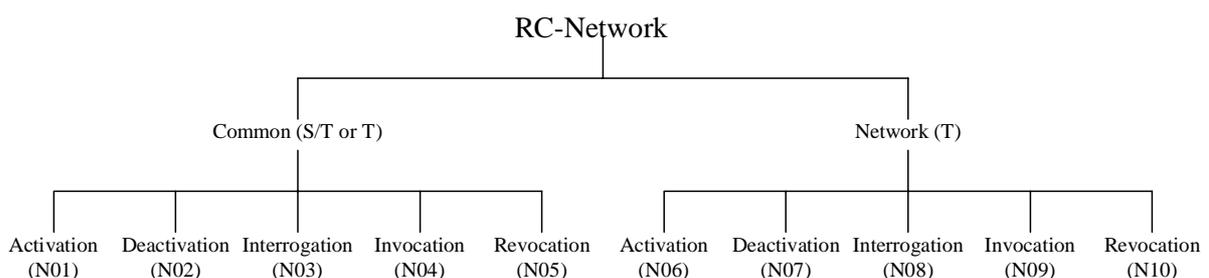
NOTE 1: Numbers in brackets represent group numbers and are used in TP identifiers.
NOTE 2: For interworking with private networks at the T reference point the Common (S/T or T) group contains TPs concerning the remote control of services in the public network by a user in the private network and the Network (T) group contains TPs concerning the remote control of services in the private network by a user in the public network.

Figure 1: Test suite structure

5   Test Purposes (TP)

5.1   Introduction

For each test requirement a TP is defined.

5.1.1   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 and whether it applies to the network or the user (see table 1).

Table 1: TP identifier naming convention scheme

Identifier: **\<ss\>_\<iut\>\<group\>_\<nnn\>**				
\<ss\>	=	(supplementary) service:	e.g. "RC"	
\<iut\>	=	type of IUT:	U N	User Network
\<group\>	=	group	2 digit field representing group reference according to TSS	
\<nnn\>	=	sequential number	(001-999)	

5.1.2   Source of TP definition

The TPs are based on EN 301 799-1 [1].

5.1.3   TP structure

Each TP has been written in a manner which is consistent with all other TPs. The intention of this is to make the TPs more readable and checkable. A particular structure has been used and this is illustrated in table 2. This table should be read in conjunction with any TP, i.e. use a TP as an example to fully understand the table.

Table 2: Structure of a single TP

TP part	Text	Example
Header	**<Identifier>** *tab* **<clause number in base specification>** *tab*	see table 1 **clause 0.0.0**
Stimulus	Ensure that the IUT in the <(supplementary) service state> <trigger> *see below for message structure* *or* <goal>	Wait RC Activation state receiving a XXXX message to request a ...
Reaction	<action> *if the action is sending* *see below for message structure* <next action>, *etc.* and enters <supplementary service state> *and/or* and remains in the same call state(s) *or* and enters call state <state> with CR<number(s)>	sends, does, etc.
Message structure	<message type> message containing a *a)* <info element> information element with *b)* a <field name> encoded as *or* including <coding of the field> and *back to a or b,*	SETUP, FACILITY, CONNECT, ... Bearer capability, Facility, ...
NOTE:	Text in italics will not appear in TPs and text between <> is filled in for each TP and may differ from one TP to the next.	

5.1.4   Test strategy

As the base standard EN 301 799-1 [1] contained no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification, EN 301 799-2 [2].

The TPs are only based on conformance requirements related to the externally observable behaviour of the IUT, and are limited to conceivable situations to which a real implementation is likely to be faced (ETS 300 406 [7]).

All the test purposes are mandatory unless they have a selection criteria. Optional test purposes (with selection criteria), are applicable according to the configuration options of the IUT. The configuration option shall be covered by a PICS item.

5.2   Network TPs for RC

All PICS items referred to in this clause are as specified in EN 301 799-2 [2] unless indicated otherwise.

Unless specified otherwise:

-   the components indicated are valid and contain at least the mandatory parameters and possibly optional parameters;

-   all components are sent and received using the appropriate transport mechanism as specified in the relevant protocol specification.

5.2.1   Common (S/T or T)

For interworking with private networks at the T reference point the Common (S/T or T) group contains TPs concerning the remote control of services in the public network by a user in the private network.

5.2.1.1   Activation

RC_N01_001   clause 9.1.1.1
Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an activationRC invoke component containing a servedUserNr parameter and no Security tool parameter,
sends an activationRC return result component and returns to the RC Idle state.

   Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_002   clause 9.1.1.1
Ensure that the IUT in the RC Idle state with RC not activated and the network option for an authentication procedure requirement at the home location, using the Pin security tool, applies, on receipt of an activationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,
sends an activationRC return result component and returns to the RC Idle state.

   Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_003   clause 9.1.1.1
Ensure that the IUT in the RC Idle state with RC not activated and the network option for an authentication procedure requirement at the home location, using the Pin and Tan security tool, applies, on receipt of an activationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter and an acceptable Tan parameter,
sends an activationRC return result component and returns to the RC Idle state.

   Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_004   clause 9.1.1.1
Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an activationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,
sends an activationRC return result component and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N01_005   clause 9.1.1.1
Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an activationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter and an acceptable Tan parameter,
sends an activationRC return result component and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N01_006   clause 9.1.1.2
Ensure that the IUT configured such that RC is not available, on receipt of an activationRC invoke component containing a servedUserNr parameter and acceptable security information,
sends an activationRC return error component indicating "notAvailable" and returns to the RC Idle state.

RC_N01_007   clause 9.1.1.2
Ensure that the IUT configured such that RC is not subscribed, on receipt of an activationRC invoke component containing a servedUserNr parameter and acceptable security information,
sends an activationRC return error component indicating "notSubscribed" and returns to the RC Idle state.

RC_N01_008   clause 9.1.1.2
Ensure that the IUT configured such that deactivation and activation of RC is not supported at the home location, on receipt of an activationRC invoke component containing a servedUserNr parameter and acceptable security information,
sends an activationRC return error component indicating
"rCdeactivationAndActivationNotSupportedAtHomeLocation" and returns to the RC Idle state.

   Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_009   clause 9.1.1.2
Ensure that the IUT in the RC idle state with RC not activated, on receipt of an activationRC invoke component containing a servedUserNr parameter encoded with an invalid number and acceptable security information,
sends an activationRC return error component indicating "invalidServedUserNr" and returns to the RC Idle state.

RC_N01_010 **clause 9.1.1.2**

Ensure that the IUT configured such that the activation of the RC service is precluded by a Supplementary service Interactions procedure, on receipt of an activationRC invoke component containing a servedUserNr parameter and acceptable security information,

   sends an activationRC return error component indicating "supplementaryServiceInteractionNotAllowed" and returns to the RC Idle state.

RC_N01_011 **clause 9.1.1.2**

Ensure that the IUT configured such that deactivation and activation of RC is not supported at the home location and the network option for an authentication procedure requirement at the home location applies, on receipt of an activationRC invoke component containing a servedUserNr parameter and acceptable security information,

   sends an activationRC return error component indicating
   "rCdeactivationAndActivationNotSupportedAtHomeLocation" and returns to the RC Idle state.

   Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_012 **clause 9.1.1.2**

Ensure that the IUT configured such that deactivation and activation of RC is not supported at the remote location, on receipt of an activationRC invoke component containing a servedUserNr parameter and acceptable security information,

   sends an activationRC return error component indicating
   "rCdeactivationAndActivationNotSupportedAtRemoteLocation" and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N01_013 **clause 9.1.1.2**

Ensure that the IUT configured such that deactivation and activation of the RC service has not been subscribed at the remote location, on receipt of an activationRC invoke component containing a servedUserNr parameter and acceptable security information,

   sends an activationRC return error component indicating
   "rCdeactivationAndActivationNotSubscribedAtRemoteLocation" and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N01_014 **clause 9.1.1.2**

Ensure that the IUT in the RC Idle state with RC not activated and the network option for an authentication procedure requirement at the home location, using the Pin security tool, applies, on receipt of an activationRC invoke component containing a servedUserNr parameter, the Pin parameter encoded with an unacceptable Pin, and optionally an acceptable Tan parameter,

   sends an activationRC return error component indicating "invalidPin" and returns to the RC Idle state.

   Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_015 **clause 9.1.1.2**

Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an activationRC invoke component containing a servedUserNr parameter, the Pin parameter encoded with an unacceptable Pin, and optionally an acceptable Tan parameter,

   sends an activationRC return error component indicating "invalidPin" and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N01_016 **clause 9.1.1.2**

Ensure that the IUT in the RC Idle state with RC not activated and the network option for an authentication procedure requirement at the home location, using the Pin security tool and the Tan security tool, applies, on receipt of an activationRC invoke component containing a servedUserNr parameter, the Pin parameter encoded with an acceptable Pin and the Tan parameter encoded with an unacceptable Tan,

   sends an activationRC return error component indicating "invalidTan" and returns to the RC Idle state.

   Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_017   clause 9.1.1.2

Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an activationRC invoke component containing a servedUserNr parameter, the Pin parameter encoded with an acceptable Pin and the Tan parameter encoded with an unacceptable Tan,

> sends an activationRC return error component indicating "invalidTan" and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N01_018   clause 9.1.1.2

Ensure that the IUT in the RC idle state with RC not activated and when the limit on the number of times that an invalid Pin or Tan can be used has been exceeded and the network option for an authentication procedure requirement at the home location applies, on receipt of an activationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an activationRC return error component indicating "userControlBlocked" and returns to the RC Idle state.

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_019   clause 9.1.1.2

Ensure that the IUT in the RC idle state with RC not activated and when the limit on the number of times that an invalid Pin or Tan can be used has been exceeded, on receipt of an activationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an activationRC return error component indicating "userControlBlocked" and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N01_020   clause 9.1.1.2

Ensure that the IUT in the RC idle state with RC not activated and when the Pin has expired and the network option for an authentication procedure requirement at the home location applies, on receipt of an activationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an activationRC return error component indicating "changeOfPinRequired" and returns to the RC Idle
> state.

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N01_021   clause 9.1.1.2

Ensure that the IUT in the RC idle state with RC not activated and when the Pin has expired, on receipt of an activationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an activationRC return error component indicating "changeOfPinRequired" and returns to the RC Idle
> state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

5.2.1.2   Deactivation

RC_N02_001   clause 9.1.2.1

Ensure that the IUT in the RC Idle state with RC activated, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and an no Security tool parameter,

> sends an deactivationRC return result component and returns to the RC Idle state.

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_002   clause 9.1.2.1

Ensure that the IUT in the RC Idle state with RC activated and the network option for an authentication procedure requirement at the home location, using the Pin security tool, applies, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,

> sends an deactivationRC return result component and returns to the RC Idle state.

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_003   clause 9.1.2.1
Ensure that the IUT in the RC Idle state with RC activated and the network option for an authentication procedure requirement at the home location, using the Pin security tool, applies, on receipt of an deactivationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter and an acceptable Tan parameter,
    sends an deactivationRC return result component and returns to the RC Idle state.

    Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_004   clause 9.1.2.1
Ensure that the IUT in the RC Idle state with RC activated, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,
    sends an deactivationRC return result component and returns to the RC Idle state.

    Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N02_005   clause 9.1.2.1
Ensure that the IUT in the RC Idle state with RC activated, on receipt of an deactivationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter and an acceptable Tan parameter,
    sends an deactivationRC return result component and returns to the RC Idle state.

    Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N02_006   clause 9.1.2.2
Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and acceptable security information,
    sends an deactivationRC return error component indicating "notActivated" and returns to the RC Idle state.

RC_N02_007   clause 9.1.2.2
Ensure that the IUT configured such that RC is not subscribed, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and acceptable security information,
    sends an deactivationRC return error component indicating "notSubscribed" and returns to the RC Idle state.

RC_N02_008   clause 9.1.2.2
Ensure that the IUT configured such that RC is not available, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and acceptable security information,
    sends an deactivationRC return error component indicating "notAvailable" and returns to the RC Idle state.

RC_N02_009   clause 9.1.2.2
Ensure that the IUT configured such that deactivation and activation of RC is not supported at the home location, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and acceptable security information,
    sends an deactivationRC return error component indicating
    "rCdeactivationAndActivationNotSupportedAtHomeLocation" and returns to the RC Idle state.

    Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_010   clause 9.1.2.2
Ensure that the IUT in the RC idle state with RC activated, on receipt of an deactivationRC invoke component containing a servedUserNr parameter encoded with an invalid number and acceptable security information,
    sends an deactivationRC return error component indicating "invalidServedUserNr" and returns to the RC Idle state.

RC_N02_011   clause 9.1.2.2
Ensure that the IUT configured such that deactivation and activation of the RC service is not supported at the home location and the network option for an authentication procedure requirement at the home location applies, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and acceptable security information,
    sends an deactivationRC return error component indicating
    "rCdeactivationAndActivationNotSubscribedAtHomeLocation" and returns to the RC Idle state.

    Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_012   clause 9.1.2.2
Ensure that the IUT configured such that deactivation and activation of RC is not supported at the remote location, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and acceptable security information,
        sends an deactivationRC return error component indicating
        "rCdeactivationAndActivationNotSupportedAtRemoteLocation" and returns to the RC Idle state.

    Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N02_013   clause 9.1.2.2
Ensure that the IUT configured such that deactivation and Deactivation and activation of the RC service has not been subscribed at the remote location, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and acceptable security information,
        sends an deactivationRC return error component indicating
        "rCdeactivationAndActivationNotSubscribedAtRemoteLocation" and returns to the RC Idle state.

    Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N02_014   clause 9.1.2.2
Ensure that the IUT in the RC Idle state with RC activated and the network option for an authentication procedure requirement at the home location applies, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and containing the Pin parameter encoded with an unacceptable Pin, and optionally an acceptable Tan parameter,
        sends an deactivationRC return error component indicating "invalidPin" and returns to the RC Idle state.

    Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_015   clause 9.1.2.2
Ensure that the IUT in the RC Idle state with RC activated, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and containing the Pin parameter encoded with an unacceptable Pin, and optionally an acceptable Tan parameter,
        sends an deactivationRC return error component indicating "invalidPin" and returns to the RC Idle state.

    Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N02_016   clause 9.1.2.2
Ensure that the IUT in the RC Idle state with RC activated and the network option for an authentication procedure requirement at the home location applies, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and containing the Pin parameter encoded with an acceptable Pin and containing the Tan parameter encoded with an unacceptable Tan,
        sends an deactivationRC return error component indicating "invalidTan" and returns to the RC Idle state.

    Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_017   clause 9.1.2.2
Ensure that the IUT in the RC Idle state with RC activated, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and containing the Pin parameter encoded with an acceptable Pin and containing the Tan parameter encoded with an unacceptable Tan,
        sends an deactivationRC return error component indicating "invalidTan" and returns to the RC Idle state.

    Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N02_018   clause 9.1.2.2
Ensure that the IUT in the RC idle state with RC activated and when the limit on the number of times that an invalid Pin or Tan can be used has been exceeded and the network option for an authentication procedure requirement at the home location applies, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and containing acceptable security information,
        sends an deactivationRC return error component indicating "userControlBlocked" and returns to the RC Idle
        state.

    Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_019   clause 9.1.2.2

Ensure that the IUT in the RC idle state with RC activated and when the limit on the number of times that an invalid Pin or Tan can be used has been exceeded, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an deactivationRC return error component indicating "userControlBlocked" and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N02_020   clause 9.1.2.2

Ensure that the IUT in the RC idle state with RC activated and when the Pin has expired and the network option for an authentication procedure requirement at the home location applies, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an deactivationRC return error component indicating " changeOfPinRequired " and returns to the RC Idle state.

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N02_021   clause 9.1.2.2

Ensure that the IUT in the RC idle state with RC activated and when the Pin has expired, on receipt of an deactivationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an deactivationRC return error component indicating " changeOfPinRequired " and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

5.2.1.3   Interrogation

RC_N03_001   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an interrogationRC invoke component containing a servedUserNr parameter,

> sends an interrogationRC return result component containing a RCStatus with the value False (deactivated) and returns to the RC Idle state .

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N03_002   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC activated, on receipt of an interrogationRC invoke component containing a servedUserNr parameter,

> sends an interrogationRC return result component containing a RCStatus parameter with the value True (activated) parameter and returns to the RC Idle state .

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N03_003   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC not activated and the network option for an authentication procedure requirement at the home location applies, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,

> sends an interrogationRC return result component containing a RCStatus with the value False (deactivated) and returns to the RC Idle state .

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N03_004   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC activated and the network option for an authentication procedure requirement at the home location applies, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,

> sends an interrogationRC return result component containing a RCStatus parameter with the value True (activated) parameter and returns to the RC Idle state .

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N03_005   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,
>   sends an interrogationRC return result component containing a RCStatus with the value False (deactivated) and returns to the RC Idle state .

>   **Selection:**   IUT supports Remote network requirements. PICS: R 4.4.

RC_N03_006   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC activated, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,
>   sends an interrogationRC return result component containing a RCStatus parameter with the value True (activated) parameter and returns to the RC Idle state .

>   **Selection:**   IUT supports Remote network requirements. PICS: R 4.4.

RC_N03_007   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC not activated and the network option for an authentication procedure requirement at the home location applies, on receipt of an interrogationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter, and an acceptable Tan parameter,
>   sends an interrogationRC return result component containing a RCStatus with the value False (deactivated) and returns to the RC Idle state .

>   **Selection:**   IUT supports Home network requirements. PICS: R 4.3.

RC_N03_008   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC activated and the network option for an authentication procedure requirement at the home location applies, on receipt of an interrogationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter, and an acceptable Tan parameter,
>   sends an interrogationRC return result component containing a RCStatus parameter with the value True (activated) parameter and returns to the RC Idle state .

>   **Selection:**   IUT supports Home network requirements. PICS: R 4.3.

RC_N03_009   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an interrogationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter, and an acceptable Tan parameter,
>   sends an interrogationRC return result component containing a RCStatus with the value False (deactivated) and returns to the RC Idle state .

>   **Selection:**   IUT supports Remote network requirements. PICS: R 4.4.

RC_N03_010   clause 9.1.3.1

Ensure that the IUT in the RC Idle state with RC activated, on receipt of an interrogationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter, and an acceptable Tan parameter,
>   sends an interrogationRC return result component containing a RCStatus parameter with the value True (activated) parameter and returns to the RC Idle state .

>   **Selection:**   IUT supports Remote network requirements. PICS: R 4.4.

RC_N03_011   clause 9.1.3.2

Ensure that the IUT configured such that RC is not available, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and acceptable security information,
>   sends an interrogationRC return error component indicating "notAvailable" and returns to the RC Idle state.

RC_N03_012   clause 9.1.3.2

Ensure that the IUT configured such that RC is not subscribed, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and acceptable security information,
>   sends an interrogationRC return error component indicating "notSubscribed" and returns to the RC Idle state.

RC_N03_013   clause 9.1.3.2

Ensure that the IUT in the RC idle state, on receipt of an interrogationRC invoke component containing a servedUserNr parameter encoded with an invalid number and acceptable security information,

> sends an interrogationRC return error component indicating "invalidServedUserNr" and returns to the RC Idle state.

RC_N03_014   clause 9.1.3.2

Ensure that the IUT in the RC Idle state and the network option for an authentication procedure requirement at the home location applies, on receipt of an interrogationRC invoke component containing a servedUserNr parameter, the Pin parameter encoded with an unacceptable Pin, and optionally the Tan parameter,

> sends an interrogationRC return error component indicating "invalidPin" and returns to the RC Idle state .

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N03_015   clause 9.1.3.2

Ensure that the IUT in the RC Idle state, on receipt of an interrogationRC invoke component containing a servedUserNr parameter, the Pin parameter encoded with an unacceptable Pin, and optionally the Tan parameter,

> sends an interrogationRC return error component indicating "invalidPin" and returns to the RC Idle state .

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N03_016   clause 9.1.3.2

Ensure that the IUT in the RC Idle state and the network option for an authentication procedure requirement at the home location applies, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and containing the Pin parameter encoded with an acceptable Pin and containing the Tan parameter encoded with an unacceptable Tan,

> sends an interrogationRC return error component indicating "invalidTan" and returns to the RC Idle state .

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N03_017   clause 9.1.3.2

Ensure that the IUT in the RC Idle state, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and containing the Pin parameter encoded with an acceptable Pin and containing the Tan parameter encoded with an unacceptable Tan,

> sends an interrogationRC return error component indicating "invalidTan" and returns to the RC Idle state .

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N03_018   clause 9.1.3.2

Ensure that the IUT in the RC idle state and when the limit on the number of times that an invalid Pin or Tan can be used has been exceeded and the network option for an authentication procedure requirement at the home location applies, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an interrogationRC return error component indicating "userControlBlocked" and returns to the RC Idle state .

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N03_019   clause 9.1.3.2

Ensure that the IUT in the RC idle state and when the limit on the number of times that an invalid Pin or Tan can be used has been exceeded, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an interrogationRC return error component indicating "userControlBlocked" and returns to the RC Idle state .

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N03_020   clause 9.1.3.2

Ensure that the IUT in the RC idle state and when the Pin has expired and the network option for an authentication procedure requirement at the home location applies, on receipt of an interrogationRC invoke component containing a servedUserNr parameter and containing acceptable security information,

> sends an interrogationRC return error component indicating " changeOfPinRequired " and returns to the RC Idle state .

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N03_021   clause 9.1.3.2
Ensure that the IUT in the RC idle state and when the Pin has expired, on receipt of an interrogationRC invoke
component containing a servedUserNr parameter and containing acceptable security information,
  sends an interrogationRC return error component indicating " changeOfPinRequired " and returns to the RC Idle
  state .

Selection: IUT supports Remote network requirements. PICS: R 4.4.

5.2.1.4   Invocation

RC_N04_001   clause 9.2.1.1
Ensure that the IUT in the RC Idle state with RC activated but not invoked, on receipt of an invocationRC invoke
component containing a servedUserNr parameter and an acceptable Pin parameter,
  sends an invocationRC return result component and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_002   clause 9.2.1.1
Ensure that the IUT in the RC Idle state with RC activated but not invoked, on receipt of an invocationRC invoke
component containing a servedUserNr parameter, an acceptable Pin parameter and an acceptable Tan parameter,
  sends an invocationRC return result component and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_003   clause 9.2.1.2
Ensure that the IUT in the RC Idle state at the home location, on receipt of an invocationRC invoke component
containing a servedUserNr parameter and acceptable security information,
  sends an invocationRC return error component indicating "rCinvokeFromHomeAccessNotAllowed" and returns
  to the RC Idle state.

Selection: IUT supports Home network requirements. PICS: R 4.3.

RC_N04_004   clause 9.2.1.2
Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an invocationRC invoke component
containing a servedUserNr parameter and acceptable security information,
  sends an invocationRC return error component indicating "notActivated" and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_005   clause 9.2.1.2
Ensure that the IUT configured such that RC is not available, on receipt of an invocationRC invoke component
containing a servedUserNr parameter and acceptable security information,
  sends an invocationRC return error component indicating "notAvailable" and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_006   clause 9.2.1.2
Ensure that the IUT configured such that RC is not subscribed, on receipt of an invocationRC invoke component
containing a servedUserNr parameter and acceptable security information,
  sends an invocationRC return error component indicating "notSubscribed" and returns to the RC Idle state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_007   clause 9.2.1.2
Ensure that the IUT in the RC idle state with RC activated, on receipt of an invocationRC invoke component containing
a servedUserNr parameter encoded with an invalid number and acceptable security information,
  sends an invocationRC return error component indicating "invalidServedUserNr" and returns to the RC Idle
  state.

Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_008   clause 9.2.1.2
Ensure that the IUT in the RC Idle state with RC activated and invoked, on receipt of an invocationRC invoke component containing a servedUserNr parameter and an acceptable security information,
        sends an invocationRC return error component indicating "alreadyInOperation" and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_009   clause 9.2.1.2
Ensure that the IUT in the RC Idle state with RC activated, on receipt of an invocationRC invoke component containing a servedUserNr parameter and containing the Pin parameter encoded with an unacceptable Pin and optionally an acceptable Tan parameter,
        sends an invocationRC return error component indicating "invalidPin" and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_010   clause 9.2.1.2
Ensure that the IUT in the RC Idle state with RC activated, on receipt of an invocationRC invoke component containing a servedUserNr parameter and containing the Pin parameter encoded with an acceptable Pin and containing the Tan parameter encoded with an unacceptable Tan,
        sends an invocationRC return error component indicating "invalidTan" and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_011   clause 9.2.1.2
Ensure that the IUT in the RC idle state with RC activated and when the limit on the number of times that an invalid Pin or Tan can be used has been exceeded, on receipt of an invocationRC invoke component containing a servedUserNr parameter and containing acceptable security information,
        sends an invocationRC return error component indicating "userControlBlocked" and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N04_012   clause 9.2.1.2
Ensure that the IUT in the RC idle state with RC activated and when the Pin has expired, on receipt of an invocationRC invoke component containing a servedUserNr parameter and containing acceptable security information,
        sends an invocationRC return error component indicating " changeOfPinRequired " and returns to the RC Idle state.

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

5.2.1.5   Revocation

   Selection: IUT supports Remote network requirements. PICS: R 4.4.

RC_N05_001   clause 9.2.2.1
Ensure that the IUT in the RC Idle state with RC activated and invoked, on receipt of an revocationRC invoke component containing a servedUserNr parameter and an acceptable Pin parameter,
        sends an revocationRC return result component and returns to the RC Idle state.

RC_N05_002   clause 9.2.2.1
Ensure that the IUT in the RC Idle state with RC activated and invoked, on receipt of an revocationRC invoke component containing a servedUserNr parameter, an acceptable Pin parameter, and an acceptable Tan parameter,
        sends an revocationRC return result component and returns to the RC Idle state.

RC_N05_003   clause 9.2.2.2
Ensure that the IUT in the RC Idle state with RC not activated, on receipt of an revocationRC invoke component containing a servedUserNr parameter and an acceptable security information,
        sends an revocationRC return error component indicating "notActivated" and returns to the RC Idle state.

RC_N05_004   clause 9.2.2.2
Ensure that the IUT configured such that RC is not available, on receipt of an revocationRC invoke component containing a servedUserNr parameter and acceptable security information,
        sends an revocationRC return error component indicating "notAvailable" and returns to the RC Idle state.

RC_N05_005   clause 9.2.2.2
Ensure that the IUT configured such that RC is not subscribed, on receipt of an revocationRC invoke component containing a servedUserNr parameter and acceptable security information,
> sends an revocationRC return error component indicating "notSubscribed" and returns to the RC Idle state.

RC_N05_006   clause 9.2.2.2
Ensure that the IUT in the RC idle state with RC activated and invoked, on receipt of an revocationRC invoke component containing a servedUserNr parameter encoded with an invalid number and acceptable security information,
> sends an revocationRC return error component indicating "invalidServedUserNr" and returns to the RC Idle state.

RC_N05_007   clause 9.2.2.2
Ensure that the IUT in the RC Idle state with RC activated but not invoked, on receipt of an revocationRC invoke component containing a servedUserNr parameter and an acceptable Pin,
> sends an revocationRC return error component indicating "notInvoked" and returns to the RC Idle state.

RC_N05_008   clause 9.2.2.2
Ensure that the IUT in the RC Idle state with RC activated and invoked, on receipt of an revocationRC invoke component containing a servedUserNr parameter, containing the Pin parameter encoded with an unacceptable Pin, and optionally an acceptable Tan parameter,
> sends an revocationRC return error component indicating "invalidPin" and returns to the RC Idle state.

RC_N05_009   clause 9.2.2.2
Ensure that the IUT in the RC Idle state with RC activated and invoked, on receipt of an revocationRC invoke component containing a servedUserNr parameter, containing the Pin parameter encoded with an acceptable Pin and containing the Tan parameter encoded with an unacceptable Tan,
> sends an revocationRC return error component indicating "invalidTan" and returns to the RC Idle state.

RC_N05_010   clause 9.2.2.2
Ensure that the IUT in the RC idle state with RC activated and invoked and when the limit on the number of times that an invalid Pin or Tan can be used has been exceeded, on receipt of an revocationRC invoke component containing a servedUserNr parameter and containing acceptable security information,
> sends an revocationRC return error component indicating "userControlBlocked" and returns to the RC Idle state.

RC_N05_011   clause 9.2.2.2
Ensure that the IUT in the RC idle state with RC activated and invoked and when the Pin has expired, on receipt of an revocationRC invoke component containing a servedUserNr parameter and containing acceptable security information,
> sends an revocationRC return error component indicating " changeOfPinRequired " and returns to the RC Idle state.

RC_N05_012   clause 9.2.2.2
Ensure that the IUT in the RC idle state with RC activated and invoked, on expiry of T-IDLEGUARD,
> sends an invocationTimeoutRC invoke component and returns to the RC Idle state.

5.2.2   Network (T)

For interworking with private networks at the T reference point the Network (T) group contains TPs concerning the remote control of services in the private network by a user in the public network.

> **Selection:**   IUT supports interworking with private ISDN at the T reference point AND the procedures where remote control is provided within or beyond the private network. PICS: R 3.2 AND MC 16.

5.2.2.1   Activation

RC_N06_001   clauses 9.1.1.1 and 10
Ensure that the IUT in the RC Idle state, to activate the RC service using the Pin Security tool,
> sends an activationRC invoke component with the servedUserNr parameter and the Pin parameter, and enters the Wait RC activation state.

RC_N06_002   clauses 9.1.1.1 and 10
Ensure that the IUT in the RC Idle state, to activate the RC service using the Pin and Tan Security tools,
> sends an activationRC invoke component with the servedUserNr parameter, the Pin parameter and the Tan parameter, and enters the Wait RC activation state.

RC_N06_003   clauses 9.1.1.1 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on receiving an activationRC return result component,
        enters the RC idle state.

RC_N06_004   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on receiving an activationRC return error component indicating "notAvailable",
        enters the RC idle state.

RC_N06_005   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on receiving an activationRC return error component indicating "notSubscribed",
        enters the RC idle state.

RC_N06_006   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on receiving an activationRC return error component indicating "invalidServedUserNr",
        enters the RC idle state.

RC_N06_007   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on receiving an activationRC return error component indicating "supplementaryServiceInteractionNotAllowed",
    enters the RC idle state.

RC_N06_008   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on receiving an activationRC return error component indicating "rCdeactivationAndActivationNotSupportedAtRemoteLocation",
        enters the RC idle state.

RC_N06_009   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on receiving an activationRC return error component indicating "rCdeactivationAndActivationNotSubscribedAtRemoteLocation",
        enters the RC idle state.

RC_N06_010   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component (, on receiving an activationRC return error component indicating "invalidPin",
        enters the RC idle state.

RC_N06_011   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component (, on receiving an activationRC return error component indicating "invalidTan",
        enters the RC idle state.

RC_N06_012   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component (, on receiving an activationRC return error component indicating "userControlBlocked",
        enters the RC idle state.

RC_N06_013   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component (, on receiving an activationRC return error component indicating "changeOfPinRequired",
        enters the RC idle state.

RC_N06_014   clauses 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on receiving a reject component,
        enters the RC idle state.

RC_N06_015   clause 9.1.1.2 and 10
Ensure that the IUT in the Wait RC activation state, after having sent an activationRC invoke component, on expiry of T-ACTIVATE,
        enters the RC idle state.

## 5.2.2.2	Deactivation

**RC_N07_001	clauses 9.1.2.1 and 10**
Ensure that the IUT in the RC Idle state, to deactivate the RC service from the remote location using the Pin Security tool,
    sends an deactivationRC invoke component with the servedUserNr parameter, and the Pin parameter, and enters the Wait RC deactivation state.

**RC_N07_002	clauses 9.1.2.1 and 10**
Ensure that the IUT in the RC Idle state, to deactivate the RC service from the remote location using the Pin and Tan Security tools,
    sends an deactivationRC invoke component with the servedUserNr parameter, the Pin parameter, the Tan parameter, and enters the Wait RC deactivation state.

**RC_N07_003	clauses 9.1.2.1 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return result component,
    enters the RC idle state.

**RC_N07_004	clauses 9.1.2.2 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return error component indicating "notActivated",
    enters the RC idle state.

**RC_N07_005	clauses 9.1.2.2 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return error component indicating "notSubscribed",
    enters the RC idle state.

**RC_N07_006	clauses 9.1.2.2 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return error component indicating "notAvailable",
    enters the RC idle state.

**RC_N07_007	clauses 9.1.2.2 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return error component indicating "invalidServedUserNr",
    enters the RC idle state.

**RC_N07_008	clauses 9.1.2.2 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return error component indicating
"rCdeactivationAndActivationNotSupportedAtRemoteLocation",
    enters the RC idle state.

**RC_N07_009	clauses 9.1.2.2 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return error component indicating
"rCdeactivationAndActivationNotSubscribedAtRemoteLocation",
    enters the RC idle state.

**RC_N07_010	clauses 9.1.2.2 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return error component indicating "invalidPin",
    enters the RC idle state.

**RC_N07_011	clauses 9.1.2.2 and 10**
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving an deactivationRC return error component indicating "invalidTan",
    enters the RC idle state.

RC_N07_012   clauses 9.1.2.2 and 10
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component (, on receiving an deactivationRC return error component indicating "userControlBlocked",
> enters the RC idle state.

RC_N07_013   clauses 9.1.2.2 and 10
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component (, on receiving an deactivationRC return error component indicating "changeOfPinRequired",
> enters the RC idle state.

RC_N07_014   clauses 9.1.2.2 and 10
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on receiving a reject component,
> enters the RC idle state.

RC_N07_015   clauses 9.1.2.2 and 10
Ensure that the IUT in the Wait RC deactivation state, after having sent an deactivationRC invoke component, on expiry of T-DEACTIVATE,
> enters the RC idle state.

5.2.2.3   Interrogation

RC_N08_001   clauses 9.1.3.1 and 10
Ensure that the IUT in the RC Idle state, to obtain the details of the instance of the RC service using the Pin Security tool,
> sends an interrogationRC invoke component with the servedUserNr parameterand including the Pin parameter, and enters the Wait RC interrogation state.

RC_N08_002   clauses 9.1.3.1 and 10
Ensure that the IUT in the RC Idle state, to obtain the details of the instance of the RC service using the Pin and Tan Security tools,
> sends an interrogationRC invoke component with the servedUserNr parameterand including the Pin parameter and the Tan parameter, and enters the Wait RC interrogation state.

RC_N08_003   clauses 9.1.3.1 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke component, on receiving an interrogationRC return result component containing a RCStatus parameter with the value True (activated),
> sends no message and enters the RC idle state.

RC_N08_004   clauses 9.1.3.1 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke component, on receiving an interrogationRC return result component containing a RCStatus parameter with the value False (deactivated),
> sends no message and enters the RC idle state.

RC_N08_005   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke, on receiving an interrogationRC return error component indicating "notAvailable",
> sends no message and enters the RC idle state.

RC_N08_006   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke, on receiving an interrogationRC return error component indicating "notSubscribed",
> sends no message and enters the RC idle state.

RC_N08_007   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke, on receiving an interrogationRC return error component indicating "invalidServedUserNr",
> sends no message and enters the RC idle state.

RC_N08_008   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke, on receiving an interrogationRC return error component indicating "invalidPin",
> sends no message and enters the RC idle state.

RC_N08_009   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke,on receiving an interrogationRC return error component indicating "invalidTan",
     sends no message and enters the RC idle state.

RC_N08_010   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke, on receiving an interrogationRC return error component indicating "userControlBlocked",
     sends no message and enters the RC idle state.

RC_N08_011   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke, on receiving an interrogationRC return error component indicating "changeOfPinRequired",
     sends no message and enters the RC idle state.

RC_N08_012   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke, on receiving a reject component,
     sends no message and enters the RC idle state.

RC_N08_013   clauses 9.1.3.2 and 10
Ensure that the IUT in the Wait RC interrogation state, after having sent an interrogationRC invoke component, on expiry of T-INTERROGATE,
     sends no message and enters the RC idle state.

5.2.2.4   Invocation

RC_N09_001   clauses 9.2.1.1 and 10
Ensure that the IUT in the RC Idle state, to invoke the RC service using the Pin Security tool,
     sends an invocationRC invoke component with the servedUserNr parameter, the Pin parameter, and enters the Wait RC invocation state.

RC_N09_002   clauses 9.2.1.1 and 10
Ensure that the IUT in the RC Idle state, to invoke the RC service using the Pin and Tan Security tools,
     sends an invocationRC invoke component with the servedUserNr parameter, the Pin parameter and the Tan parameter, and enters the Wait RC invocation state.

RC_N09_003   clauses 9.2.1.1 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke component, on receiving an invocationRC return result component,
     sends no message and enters the RC idle state.

RC_N09_004   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving an invocationRC return error component indicating "notActivated",
     sends no message and enters the RC idle state.

RC_N09_005   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving an invocationRC return error component indicating "invalidServedUserNr",
     sends no message and enters the RC idle state.

RC_N09_006   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving an invocationRC return error component indicating "rCalreadyInOperation",
     sends no message and enters the RC idle state.

RC_N09_007   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving an invocationRC return error component indicating "notSubscribed",
     sends no message and enters the RC idle state.

RC_N09_008   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke on receiving an invocationRC return error component indicating "invalidPin",
    sends no message and enters the RC idle state.

RC_N09_009   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving an invocationRC return error component indicating "invalidTan",
    sends no message and enters the RC idle state.

RC_N09_010   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving an invocationRC return error component indicating "userControlBlocked",
    sends no message and enters the RC idle state.

RC_N09_011   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving an invocationRC return error component indicating "changeOfPinRequired",
    sends no message and enters the RC idle state.

RC_N09_012   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving an invocationRC return error component indicating "notAvailable",
    sends no message and enters the RC idle state.

RC_N09_013   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke, on receiving a reject component,
    sends no message and enters the RC idle state.

RC_N09_014   clauses 9.2.1.2 and 10
Ensure that the IUT in the Wait RC invocation state, after having sent an invocationRC invoke component, on expiry of T-INVOCATION,
    sends no message and enters the RC idle state.

5.2.2.5   Revocation

RC_N10_001   clauses 9.2.2.1 and 10
Ensure that the IUT in the RC Idle state, to revoke the RC service using the Pin Security tool,
    sends an revocationRC invoke component with the servedUserNr parameter, the Pin parameter, and enters the Wait RC revocation state.

RC_N10_002   clauses 9.2.2.1 and 10
Ensure that the IUT in the RC Idle state, to revoke the RC service using the Pin and Tan Security tools,
    sends an revocationRC invoke component with the servedUserNr parameter, the Pin parameter and the Tan parameter, and enters the Wait RC revocation state.

RC_N10_003   clauses 9.2.2.1 and 10
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC invoke component, on receiving an revocationRC return result component,
    sends no message and enters the RC idle state.

RC_N10_004   clauses 9.2.2.2 and 10
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC revoke, on receiving an revocationRC return error component indicating "notSubscribed",
    sends no message and enters the RC idle state.

RC_N10_005   clauses 9.2.2.2 and 10
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC revoke, on receiving an revocationRC return error component indicating "notActivated",
    sends no message and enters the RC idle state.

**RC_N10_006	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC revoke, on receiving an revocationRC return error component indicating "rCnotInvoked",
	sends no message and enters the RC idle state.

**RC_N10_007	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC revoke, on receiving an revocationRC return error component indicating "invalidServedUserNr",
	sends no message and enters the RC idle state.

**RC_N10_008	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC revoke on receiving an revocationRC return error component indicating "invalidPin",
	sends no message and enters the RC idle state.

**RC_N10_009	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC revoke, on receiving an revocationRC return error component indicating "invalidTan",
	sends no message and enters the RC idle state.

**RC_N10_010	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC invoke, on receiving an revocationRC return error component indicating "userControlBlocked",
	sends no message and enters the RC idle state.

**RC_N10_011	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC invoke, on receiving an revocationRC return error component indicating "changeOfPinRequired",
	sends no message and enters the RC idle state.

**RC_N10_012	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC invoke, on receiving an revocationRC return error component indicating "notAvailable",
	sends no message and enters the RC idle state.

**RC_N10_013	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC invoke, on receiving an reject component,
	sends no message and enters the RC idle state.

**RC_N10_014	clauses 9.2.2.2 and 10**
Ensure that the IUT in the Wait RC revocation state, after having sent an revocationRC invoke component, on expiry of T-REVOCATION,
	sends no message and enters the RC idle state.

**RC_N10_015	clauses 9.2.2.2 and 10**
Ensure that the IUT in the RC Idle state, after having successfully invoked the RC service, and the timer T-IDLEGUARD having expired, on receipt of an InvocationTimoutRC invoke component,
	sends no message and remains in the RC idle state.

6 Compliance

An ATS which complies with this TSS&TP specification shall:

a) consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 5;

b) use a TSS which is an appropriate subset of the whole of the TSS specified in clause 4;

c) use the same naming conventions for the test groups and test cases;

d) maintain the relationship specified in clause 5 between the test groups and TPs and the entries in the PICS proforma to be used for test case deselection;

e) comply with ISO/IEC 9646-2 [4].

In the case of a) or b) above, a subset shall be used only where a particular Abstract Test Method (ATM) makes some TPs untestable. All testable TPs from clause 5 shall be included in a compliant ATS.

7 Requirements for a comprehensive testing service

As a minimum the Remote test method, as specified in ISO/IEC 9646-2 [4], shall be used by any organization claiming to provide a comprehensive testing service for user equipment claiming conformance to EN 301 799-1 [1].

Annex A (informative):
Bibliography

ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

History

Document history			
V1.1.1	February 2001	Public Enquiry	PE 20010608: 2001-02-07 to 2001-06-08