



SLOVENSKI STANDARD
SIST EN 301 691 V1.1.1:2003
01-december-2003

Digitalno omrežje z integriranimi storitvami (ISDN) – Storitve oddaljenega krmiljenja (RC) – Opis storitve

Integrated Services Digital Network (ISDN); Remote Control (RC) service; Service description

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: **EN 301 691 Version 1.1.1**
<https://standards.iteh.ai/catalog/standards/sist/c06a962e-9510-4595-abdc-1d54dccdd4d0/sist-en-301-691-v1-1-1-2003>

ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
--------	---	--

SIST EN 301 691 V1.1.1:2003 **en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 301 691 V1.1.1:2003

<https://standards.iteh.ai/catalog/standards/sist/c06a962e-9310-4395-a6dc-1d54dccdd4d0/sist-en-301-691-v1-1-1-2003>

ETSI EN 301 691 V1.1.1 (2001-02)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN); Remote Control (RC) service; Service description

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 301 691 V1.1.1:2003](https://standards.iteh.ai/catalog/standards/sist/c06a962e-9310-4395-a6dc-1d54dccdd4d0/sist-en-301-691-v1-1-1-2003)

<https://standards.iteh.ai/catalog/standards/sist/c06a962e-9310-4395-a6dc-1d54dccdd4d0/sist-en-301-691-v1-1-1-2003>



Reference

DEN/NA-020009

Keywords

ISDN, RC, service, stage 1

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 301 691 V1.1.1:2003

<https://standards.iteh.ai/catalog/standards/sist/c06a962e-9310-4395-a6dc-1d54dccdd4d0/sist-en-301-691-v1-1-1-2003>

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

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2001.
All rights reserved.

Contents

Intellectual Property Rights	4
Foreword	4
1 Scope.....	5
2 References	5
3 Definitions and abbreviations.....	6
3.1 Definitions	6
3.2 Abbreviations.....	6
4 Description	7
5 Procedures	7
5.1 Provision and withdrawal	7
5.2 Normal procedures	8
5.2.1 Activation, deactivation and registration.....	8
5.2.2 Erasure	8
5.2.3 Invocation and operation	9
5.2.4 Interrogation	9
5.3 Exceptional procedures.....	9
5.3.1 Activation, deactivation and registration.....	10
5.3.2 Erasure	10
5.3.3 Invocation and operation	10
5.3.4 Interrogation	10
6 Intercommunication considerations.....	11
6.1 Interworking with non-ISDNs.....	11
6.2 Interworking with private ISDNs	11
7 Interaction with supplementary services.....	11
8 Supplementary services that can be remotely controlled.....	11
Annex A (normative): Applicability of the RC service to (supplementary) services	12
History	13

ITeH STANDARD PREVIEW
(standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/c06a962e-9310-4395-a6dc-1854dcccdd4d0/sist-en-301-691-v1-1-1-2003>

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).

In accordance with ITU-T Recommendation I.130 [1], the following three level structure is used to describe the supplementary telecommunications services as provided by European public network operators under the pan-European Integrated Services digital Network (ISDN):

- Stage 1: is an overall service description, from the user's standpoint;
- Stage 2: identifies the functional capabilities and information flows needed to support the service described in stage 1; and
- Stage 3: defines the signalling system protocols and switching functions needed to implement the service described in stage 1.

The present document details the stage 1 aspects (overall service description) for the Remote Control (RC) service.

National transposition dates

Date of adoption of this EN:	2 February 2001
Date of latest announcement of this EN (doa):	31 May 2001
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 November 2001
Date of withdrawal of any conflicting National Standard (dow):	30 November 2001

1 Scope

The present document defines the stage one of the Remote Control (RC) service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunication operators. Stage one is an overall service description from the user's point of view (see ITU-T Recommendation I.130 [1]), but does not deal with the details of the human interface itself.

The present document defines the interworking requirements of private ISDNs with the public ISDN.

In addition the present document specifies the base functionality where the service is provided to the user via a private ISDN.

The present document does not specify the additional requirements where the service is provided to the user via a telecommunications network that is not an ISDN, but it does include interworking requirements of other networks with the public ISDN.

Charging principles are outside the scope of the present document.

The RC service enables a user to control a (supplementary) service or a number of (supplementary) services associated with that user from another access using the procedures provided for the (supplementary) service (s) to be controlled at the served user's access.

The RC service is applicable to all circuit-switched telecommunication services.

The present document is applicable to the stage two and the stage three standards for the ISDN RC service. The terms "stage two" and "stage three" are also defined in ITU-T Recommendation I.130 [1]. Where the text indicates the status of a requirement, (i.e. as strict command or prohibition, as authorization leaving freedom, or as capability or possibility), this will be reflected in the text of the relevant stage three standards.

Furthermore, conformance to the present document is met by conforming to the stage three standard with the field of application appropriate to the equipment being implemented. Therefore, no method of testing is provided for the present document.

<https://standards.iteh.ai/catalog/standards/sist/c06a962e-9310-4395-a6dc-1d54dccdd4d0/sist-en-301-691-v1-1-1-2003>

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] ITU-T Recommendation I.130 (1988): "Method for the characterization of the telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
- [3] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [4] ETSI ETS 300 345 (1994): "Integrated Services Digital Network (ISDN); Interworking between public ISDNs and private ISDNs for the provision of telecommunication services; General aspects".
- [5] ETSI EN 301 132: "Integrated Services Digital Network (ISDN); Security tools (SET) for use within telecommunication services".

3 Definitions and abbreviations

3.1 Definitions

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

authentication procedure: procedure to verify the identity of the served user

basic access: see ITU-T Recommendation I.112 [2], clause 2.4, definition 425

confidential code: general term for the combination of characters (e.g.: PIN, TAN, Dynamic authentication security tool) used to identify the served user when operating the RC service

home location: location at which the service provider considers the user's ISDN number and services are registered

Integrated Services Digital Network (ISDN): see ITU-T Recommendation I.112 [2], clause 2.3, definition 308

Personal Identification Number (PIN): PIN is a 4 to 12 position alphanumeric code or password the customer possesses for authentication. This is used to provide authentication of the user with the access device

primary rate access: see ITU-T Recommendation I.112 [2], clause 2.4, definition 426

served user: user to whom the RC service is provided

supplementary service: see ITU-T Recommendation I.210 [3], clause 2.4

remote location: location other than Home location

transaction number: alphanumeric code selected from a list of TANs the customer possesses for authentication, used to provide authentication of the user with the access device

NOTE: Each TAN is only usable for one instance of authentication.

<https://standards.iteh.ai/catalog/standards/sist/c06a962e-9310-4395-a6dc-1d54dcccdd4d0/sist-en-301-691-v1-1-1-2003>

3.2 Abbreviations

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

IN	Intelligent Network
ISDN	Integrated Services Digital Network
PIN	Personal Identification Number
PSTN	Public Switched Telephone Network
PTN	Private Telecommunication Network
RC	Remote Control
TAN	Transaction number

4 Description

The RC service shall be available to served users connected to the network via the basic access or the primary rate access.

The RC service enables a served user to control a (supplementary) service or a number of (supplementary) services which are subscribed to by that user from another access using the procedures provided for the (supplementary) service(s) to be controlled at the served user's access.

The RC service enables a user to perform the following actions from an access other than the served user's home location access:

- activation of (supplementary) services;
- deactivation of (supplementary) services;
- registration of information for (supplementary) services;
- erasure of information for (supplementary) services;
- interrogation of (supplementary) services.

The list of the supplementary services or services that can be controlled remotely is provided in annex A.

The home location access of the served user shall be protected against any unauthorized operation on that home location access by the use of an authentication procedure preceding any use of the RC service.

In the provision of RC service to the ISDN served users, the following considerations should be noted:

- Provision of RC supplementary service may be based on different network configurations including the access to the RC service through an equipment external to LEs. In this case service provision can include service elements provided by the external equipment (e.g. authentication procedure).
- Remote Control functionality may be used as generic feature allowing the handling of data related to IN services (e.g. in the case of activation of Call forwarding service using IN functions).
- Although provided to an ISDN served user, RC features as described in this specification may be accessed via a PSTN. This possibility does not impact the served user's operations on the RC service using the ISDN network access.

5 Procedures

The clauses below contain the procedures associated with the RC service only.

5.1 Provision and withdrawal

The RC service shall be provided after prior arrangement with the service provider.

A confidential code used in the authentication procedure shall be assigned to the served user at provision. The selection of the confidential code is a service provider option. It is recommended to use a PIN, a dynamic authentication security tool or, both PIN and TAN.

The RC service shall apply to the whole access, or as a service provider option, on a per ISDN number basis.

The service provider shall specify which (supplementary) services can be remotely controlled. The user may remotely control a (supplementary) service on an access or an ISDN number basis depending on the provision of that (supplementary) service at the home location.