



SLOVENSKI STANDARD SIST ETS 300 284 E1:2003

01-december-2003

**Digitalno omrežje z integriranimi storitvami (ISDN) – Dopolnilna storitev:
meduporabniška signalizacija (UUS) – Opis storitve**

Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS)
supplementary service; Service description

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Ta slovenski standard je istoveten z: **ETS 300 284 Edition 1**
SIST ETS 300 284 E1:2003
<https://standards.iteh.ai/catalog/standards/sist/4e55e87b-9452-4a4d-9ec8-d3b4ddb1f237/sist-ets-300-284-e1-2003>

ICS:

| | | |
|--------|---|--|
| 33.080 | Digitalno omrežje z integriranimi storitvami (ISDN) | Integrated Services Digital Network (ISDN) |
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EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 284

March 1996

Source: ETSI TC-NA

Reference: DE/NA-012206

ICS: 33.080

Key words: ISDN, supplementary service

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Integrated Services Digital Network (ISDN);
User-to-User Signalling (UUS) supplementary service

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI).

In accordance with CCITT Recommendation I.130 [1], the following three level structure is used to describe the supplementary telecommunications services as provided by European public telecommunications 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.

This ETS details the stage 1 aspects (overall service description) for the User-to-User Signalling (UUS) supplementary service. Stage 2 and stage 3 aspects are detailed in ETR 285 (1996) and ETS 300 286 (1996) respectively.

| Transposition dates | |
|---|------------------|
| Date of adoption of this ETS: | 1 March 1996 |
| Date of latest announcement of this ETS (doa): | 30 June 1996 |
| Date of latest publication of new National Standard or endorsement of this ETS (dop/e): | 31 December 1996 |
| Date of withdrawal of any conflicting National Standard (dow): | 31 December 1996 |

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1 Scope

This standard defines the stage one of the User-to-User Signalling (UUS) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators. Stage one is an overall service description from the user's point of view (see CCITT Recommendation I.130 [1]), but does not deal with the details of the human interface itself.

This standard defines the interworking requirements of private ISDNs with the public ISDN.

In addition, this standard specifies the base functionality where the service is provided to the user via a private ISDN.

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

Charging principles are outside the scope of this standard.

Interaction with supplementary services not listed in clause 8 are outside the scope of this standard.

The UUS supplementary service enables a user to send/receive a limited amount of information to/from another user over the signalling channel in association with a call to the other user.

The UUS supplementary service is applicable to all circuit-switched telecommunications services.

This standard is applicable to the stage two and the stage three standards for the ISDN UUS supplementary service. The terms "stage two" and "stage three" are also defined in CCITT Recommendation I.130 [1]. Where the text indicates the status of a requirement (i.e. as strict command or prohibition, as authorisation leaving freedom, or as a capability or possibility), this shall be reflected in the text of the relevant stage two and stage three standards.

Furthermore, conformance to this standard 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 this standard.

2 Normative references

This standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] CCITT Recommendation I.130 (1988): "Method for the characterisation of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] CCITT Recommendation I.112 (1988): "Vocabulary of terms for ISDNs".
- [3] CCITT Recommendation I.210 (1988): "Principles of telecommunication services supported by an ISDN and the means to describe them".
- [4] CCITT Recommendation Q.9 (1988): "Vocabulary of switching and signalling terms".

3 Definitions

For the purposes of this standard, the following definitions apply:

"UUS not required" request: a request where originating a call shall continue even if the request for the UUS supplementary service cannot be accepted.

"UUS required" request: a request where originating a call shall be rejected if the request for the UUS supplementary service cannot be accepted.

Basic access: see CCITT recommendation Q.9 [4], § 1, definition 1552.

Called user: the user who received an incoming call (originated by the calling user).

Calling user: the user who originates, or originated, the call.

Explicit request: the UUS supplementary service is considered as explicitly requested when a user requests the activation of the UUS supplementary service.

Implicit request: the UUS supplementary service is considered as implicitly requested when no explicit request for the UUS supplementary service is made and UUI is sent by the user when originating a call.

Integrated Services Digital Network (ISDN): see CCITT Recommendation I.112 [2], § 2.3, definition 308.

Point-to-multipoint configuration: a situation where multiple responses to an incoming call can occur.

Point-to-point configuration: a situation where multiple responses to an incoming call cannot occur.

Primary rate access: see CCITT recommendation Q.9 [4], § 1, definition 1552.

Remote user: the user who receives a request for activation of the UUS supplementary service.

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Basic service; telecommunications service: see CCITT Recommendation I.112 [2], § 2.2, definition 201.

Served user: the user to whom the UUS supplementary service is provided and who requests the activation of the UUS supplementary service.

Service 1: a form of the UUS supplementary service where UUI can be sent and received during the origination and termination of calls.

Service 2: a form of the UUS supplementary service where UUI can be sent and received after the calling user has received an indication that the called user is being informed of the call and prior to the establishment of the connection.

Service 3: a form of the UUS supplementary service where UUI can be sent and received only while the connection is established.

Supplementary service: see CCITT Recommendation I.210 [3], § 2.4.

User-to-User Information (UUI): the information transferred by using the UUS supplementary service.

4 Symbols and abbreviations

| | |
|------|-------------------------------------|
| ISDN | Integrated Services Digital Network |
| ISUP | ISDN User Part |
| UUI | User-to-User Information |
| UUS | User-to-User Signalling |

5 Description

The UUS supplementary service shall be available to users who are connected to a network via a basic access or a primary rate access.

The UUS supplementary service enables a user to send/receive a limited amount of information to/from another user over the signalling channel in association with a call to the other user. This information shall be passed transparently (i.e. without modification of contents) through the network. The network shall not interpret or act upon this information.

The user can transfer UUI in different phases of the call depending on the service(s) to which the user subscribes. These services are:

- **service 1:**

UUI can be sent and received during the origination and termination of calls.

In the case of a point-to-multipoint configuration at the called user, the following restrictions shall apply to the transfer of UUI:

- in the forward direction: UUI can be sent by the calling user only as part of the request for the origination of a call, or as part of the request to terminate the call. If the calling user terminates the call prior to the connection being established, UUI shall only be delivered to those terminals which have indicated that the user has been informed of the call;
- in the backward direction: UUI can be sent from the called user to the calling user with the indication that the called user is being informed of the call. It shall be the called user's responsibility to avoid contention. UUI can also be sent from the called user when answering the call;
- if the called user rejects the call and the network receives a single rejection from the called user, then the reason for rejection and the accompanying UUI (if any) shall be sent to the calling user.
- If the network receives multiple rejections from the called user, with the same or differing reasons for rejection, then the network shall select the first received, highest priority rejection (based upon the reason(s) for rejection). The reason for rejection and the accompanying UUI (if any) of the selected rejection shall be sent to the calling user.

- **service 2:**

UUI can be sent and received after the calling user has received an indication that the called user is being informed of the call and prior to the establishment of the connection. UUI sent by the calling user prior to receiving the acceptance of the call by the called user may, as a service provider option, be delivered to the called user after the call has been established.

Service 2 is only applicable if a point-to-point configuration exists at the called user's side;