



SLOVENSKI STANDARD
SIST ETS 300 178 E1:2003

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Digitalno omrežje z integriranimi storitvami (ISDN) – Dopolnilna storitev: obvestilo o ceni: informacija o ceni med vzpostavljanjem klica (AOC-S) – Opis storitve

Integrated Services Digital Network (ISDN); Advice of Charge: charging information at call set-up time (AOC-S) supplementary service; Service description

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33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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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 Advice Of Charge: charging information at call set-up time (AOC-S) supplementary service. Stage 2 and stage 3 aspects are detailed in ETS 300 181 (1992) and ETS 300 182 (1992), respectively.

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1 Scope

This standard defines the stage one of the Advice Of Charge: charging information at call set-up time (AOC-S) 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 AOC-S supplementary service enables a user to receive information about the charging rates at call set-up time and also to receive further information during the call if there is a change of charging rates.

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

This standard is applicable to the stage two and stage three standards for the ISDN AOC-S 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 the 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 purpose of this standard, the following definitions apply:

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

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

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

Served user: the user to whom the AOC-S supplementary service is provided.

Basic access: see CCITT Recommendation Q.9 [4], § 1, definition 1551.

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

4 Symbols and abbreviations

AOC-S Advice Of Charge: charging information at call set-up time

ISDN Integrated Services Digital Network

5 Description

The AOC-S supplementary service shall apply to the basic access and to the primary rate access.

The AOC-S supplementary service provides the served user with information about the charging rates at call establishment. In addition, the served user shall be informed if a change in charging rates takes place during the call. The information can be sent for all calls, or on a per call basis. The charge information given shall relate to the charges incurred on the network to which the served user is attached.

NOTE: In some cases, e.g. due to off-line processing of charges, or timing considerations, the charge calculated by the user or the user's equipment may not precisely reflect the actual cost incurred.

The structure, contents and application of charging information is given in Annex A.

6 Procedures

6.1 Provision and withdrawal

The AOC-S supplementary service shall either be provided on a subscription basis or be generally available. The AOC-S supplementary service can be offered with one subscription option. Only one value can be selected.

Table 1

Subscription option	Values
Invocation	- For all calls automatically - On a per call basis (NOTE)
NOTE:	If the AOC-S supplementary service is generally available, then the value "on a per-call basis" should be the default value.

Withdrawal shall be at the request of the subscriber or for service provider reasons.

6.2 Normal procedures

6.2.1 Activation, deactivation and registration

The AOC-S supplementary service shall be activated on provision and deactivated on withdrawal.

The AOC-S supplementary service requires no registration.

6.2.2 Erasure

Not applicable.

6.2.3 Invocation and operation

Depending on the value of the subscription option, the AOC-S supplementary service shall be invoked on all calls, or it can be invoked by the served user on a per call basis.

If the AOC-S supplementary service is provided on a per call basis, the user shall request the AOC-S supplementary service when originating a call in order to invoke the AOC-S supplementary service.

The charging information shall be provided by the network during call establishment. This can occur, at the latest, when the calling user is informed that the called user has accepted the call.

When there is a change in the charging rate during the call, the network shall send information about the new charging rate to be applied for the call.

If a call is free of charge, or becomes free of charge during the active phase (e.g. in case of reverse charging), the specific rate "free of charge" shall be given.

The structure, contents and application of charging information is given in Annex A.

6.2.4 Interrogation

Not applicable.

6.3 Exceptional procedures

6.3.1 Activation, deactivation and registration

Not applicable.

6.3.2 Erasure

Not applicable.