



SLOVENSKI STANDARD
SIST ETS 300 711 E1:2003
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Digitalno omrežje z integriranimi storitvami (ISDN) – Javno komutirano telefonsko omrežje (PSTN) – Klicanje z navidezno kartico (VCC) – Opis storitve

Integrated Services Digital Network (ISDN); Public Switched Telephone Network (PSTN); Virtual Card Calling (VCC); Service description

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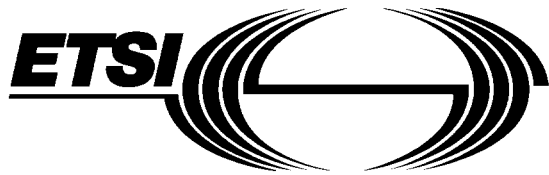
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Foreword

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

In analogy with CCITT Recommendation I.130 (refer to annex A), the first stage of the following three level structure is used to describe the telecommunications service as provided by European public telecommunications operators.

- Stage 1: is an overall service description, from the service subscriber's and user's stand-point;
- 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 Virtual Card Calling (VCC) service, taking into account the various network architectures, e.g. Intelligent Network (IN).

The application of stage 2 and stage 3 may be different when the service is supported on an IN environment.

Transposition dates	
Date of adoption:	21 February 1997
Date of latest announcement of this ETS (doa):	30 June 1997
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 December 1997
Date of withdrawal of any conflicting National Standard (dow):	31 December 1997

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1 Scope

General

This European Telecommunication Standard (ETS) defines the stage 1 description of the Virtual Card Calling (VCC) service. Stage 1 is an overall service description, primarily from the service subscriber's and user's point of view, but does not deal with the details of the human interface itself. This ETS includes information applicable to network operators, service providers and terminal, switch and database manufacturers.

This ETS specifies the requirements where the service is provided to the user via a telecommunications network that is either the pan-European Integrated Services Digital Network (ISDN) or any other Public Switched Telephone Network (PSTN) as provided by European public telecommunications operators.

The requirements different from those of the basic call where the VCC service is provided to the user via a mobile network are outside the scope of this ETS. However, if calls to the VCC service originate or terminate in a mobile network and any special procedure above those for the basic calls has to be performed, this is stated in subclause 7.1 dealing with the Interworking between ISDNs, PSTNs and mobile networks.

This ETS contains the core requirements for the VCC service which are sufficient to provide a complete service.

This ETS also documents some additional requirements which can be implemented (but do not have to be implemented).

Furthermore, additional functionalities not documented in this ETS may be implemented. The requirements of which are considered outside the scope of this ETS and consequently outside the scope of the corresponding stage 2 and stage 3 standards. Such additional functionality may be on a network-wide basis, or particular to one or a group of users. Such additional functionality shall not compromise conformance to the core requirements of the service.

Charging principles are outside the scope of this ETS, unless specific service requirements are stated. These requirements deal with the allocation of certain call charges to particular users.

Interactions with services/supplementary services not listed in clauses 8 and 9 are outside the scope of this ETS.

Interactions between optional VCC service features and ISDN supplementary services are outside the scope of this ETS, unless specific indication is given.

Definition and applicability

The VCC service allows the user to be automatically charged to the service subscriber's account, which is a telecommunications account subscribed with the service provider or may be optionally an account managed by some other commercial organization, for any outgoing call. The use of non telecommunications accounts is dependent on agreements between the service provider and such commercial organizations. The call shall be free of charge for the line the call originates from. After accessing the service, the user has to enter the card number, a PIN code and the called number.

Operation of the VCC service via operators is outside the scope of this ETS.

The VCC service is applicable to all telecommunications services using the CCITT Recommendation E.164 [5] numbering plan.

This ETS is applicable to the stage 2 and stage 3 standards for the VCC service, where the text indicates the status of a requirement (i.e. as strict command or prohibition, as authorization leaving freedom, as a capability or a possibility), this shall be reflected in the relevant stage 2 and stage 3 standards. Otherwise, the status of a requirement shall be reflected in the relevant standards for the underlying protocols.

Furthermore, conformance to this ETS is either met by:

- conforming to the stage 3 standards; or
- implicitly covered by conforming to the standards for the underlying protocols;

with the field of application appropriate to the equipment being implemented. Therefore no method of testing is provided for this ETS.

The validation procedures, general principles and card numbering system shall be in conformance with CCITT Recommendations E.113 [2], E.116 [3] and E.118 [4].

2 Normative references

This ETS 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 ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 345 (1994): "Integrated Services Digital Network (ISDN); Interworking between public ISDNs and private ISDNs for the provision of telecommunication services; General aspects".
- [2] CCITT Recommendation E.113 (1992): "Validation procedures for the international telecommunication charge card service".
- [3] CCITT Recommendation E.116 (1992): "International telecommunication charge card service".
- [4] CCITT Recommendation E.118 (1992): "The international telecommunication charge card".
- [5] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".

3 Definitions

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

account number: Number to identify the service subscriber's account to which the virtual card calls are to be charged. An account number may be allocated to one or several virtual cards. According to the service provider's implementation, the account number and the card number may be identical.

calling user: Entity which originates a call to the VCC service.

card number: Digits assigned to a virtual card, in conformance with CCITT Recommendation E.118 [4], permitting the determination of the account number and, if any, of the parameters of the optional service features.

core service feature: Particular service feature fundamental to the telecommunication service, i.e. in the absence of this service feature, the telecommunication service does not make sense as a commercial offering to the service subscriber.

destination user: Entity to which VCC calls are directed.

network operator: Entity which provides the network operating elements and resources for the execution of the VCC service.

non-running record: A record containing service subscriber parameters currently not in operation.

optional service feature: Service feature added to core feature to optionally enhance a service offering.

Personal Identification Number (PIN): Digits associated with a card number for authentication purposes.

running record: A record containing the service subscriber parameters used by the service and currently in operation.

Service Access Code (SAC): Digits assigned by a network operator to the VCC service, that have to be dialled by the user when initiating a virtual card call. SAC may for example be subscriber control procedure or a CCITT Recommendation E.164 [5] number (e.g. a freephone number).

service feature: Specific aspect of a telecommunication service that can also be used in conjunction with other telecommunication services or service features as part of a commercial offering. It is either a core part of a telecommunication service or an optional part offered as an enhancement to a telecommunication service.

service provider: Entity which offers the VCC service for subscription. The network operator may be the service provider.

service subscriber profile: Service subscriber related data needed by the service in order to handle the calls.

service subscriber: Entity which subscribes to the VCC service.

service: That which is offered by service provider to its customers in order to satisfy a telecommunication requirement.

virtual card call: A call billed on the account number.

virtual card: The information permitting the user to be automatically charged to an account without need of a physical card support.

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4 Abbreviations

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For the purposes of this ETS, the following abbreviations apply:

CPM	Customer Profile Management
CRL	Credit Limit (floor limit)
FOC	Follow-On Calling
IN	Intelligent Network
ISDN	Integrated Services Digital Network
LGS	Language Selection
LOG	call Logging
ODC	Origin Dependent Control
PDD	Pre-Defined Destination
PIN	Personal Identification Number
PLD	Provider's Limitation on Destination
PSTN	Public Switched Telephone Network
SAC	Service Access Code
SLD	Subscriber's Limitation on Destination
SPD	Speed Dialling
TDC	Time Dependent Control
VCC	Virtual Card Calling