



# SLOVENSKI STANDARD

## SIST ETS 300 129:1997

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**Digitalno omrežje z integriranimi storitvami (ISDN) - Dopolnilna storitev: razpoznavanje (identifikacija) zlonamernega klica (MCID) - Funkcijske zmožnosti in informacijski tokovi**

Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Functional capabilities and information flows

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**ICS:**

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

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**ETSI**

European Telecommunications Standards Institute

**ETSI Secretariat**

**Postal address:** F-06921 Sophia Antipolis CEDEX - FRANCE

**Office address:** 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

**X.400:** c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

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

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## Contents

|   |    |
|---|----|
| Foreword.....   | 5  |
| 1 Scope .....   | 7  |
| 2 Normative references .....  | 7  |
| 3 Definitions.....  | 8  |
| 4 Symbols and abbreviations.....  | 8  |
| 5 Description .....   | 8  |
| 6 Derivation of the functional model .....  | 8  |
| 6.1 The functional model description.....   | 8  |
| 6.2 Description of the functional entities.....   | 9  |
| 6.3 Relationship with a basic service .....   | 9  |
| 7 Information flows.....  | 9  |
| 7.1 Information flow diagrams.....  | 9  |
| 7.1.1 Entry into the MCID service at FE3.....   | 9  |
| 7.1.2 Information request towards FE4 upon detection of incomplete SETUP<br>contents for MCID service at FE3.....     | 10 |
| 7.1.3 Functions of FE3 when calling party clears before the served user invokes<br>the MCID service .....             | 10 |
| 7.1.4 Invocation of the MCID supplementary service (directly connected served<br>user) .....                          | 11 |
| 7.1.5 Invocation of the MCID supplementary service (served user is PTNX<br>extension) .....                           | 11 |
| 7.1.6 Functions of FE2 when calling party clears before served user (PTNX<br>extension) invokes the MCID service..... | 12 |
| 7.2 Definitions of individual information flows .....   | 12 |
| 7.2.1 Relationship ra .....   | 12 |
| 7.2.1.1 Contents of INFORM 3 .....  | 12 |
| 7.2.1.2 Contents of INFORM 4 .....  | 12 |
| 7.2.2 Relationship rc .....   | 13 |
| 7.2.2.1 Contents of INFORM 1 .....  | 13 |
| 7.2.2.2 Contents of INFORM 2 .....  | 13 |
| 7.2.2.3 Contents of INFORM 5 .....  | 13 |
| 7.2.2.4 Contents of INFORM 6 .....  | 13 |
| 8 SDL diagrams for functional entities.....   | 14 |
| 8.1 FE1.....  | 14 |
| 8.2 FE2.....  | 16 |
| 8.3 FE3.....  | 17 |
| 8.4 FE4.....  | 22 |
| 9 Functional Entity Actions (FEAs).....   | 23 |
| 9.1 FEAs of FE1.....  | 23 |
| 9.2 FEAs of FE2.....  | 23 |
| 9.3 FEAs of FE3.....  | 23 |
| 9.4 FEAs of FE4.....  | 24 |
| 10 Allocation of functional entities to physical localities .....   | 24 |
| History .....   | 25 |

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## Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols & Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI) and was adopted having passed through the ETSI standards approval procedure.

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 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 2 aspects (functional capabilities and information flows) needed to support the Malicious Call Identification (MCID) supplementary service. The stage 1 and stage 3 aspects are detailed in ETS 300 128 (1992) and ETS 300 130 (1992), respectively.

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## 1 Scope

This standard defines the stage two of the Malicious Call Identification (MCID) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators. Stage two identifies the functional capabilities and the information flows needed to support the service description. The stage two description also identifies user operations not directly associated with a call (see CCITT Recommendation I.130 [1]).

This standard is specified according to the methodology specified in CCITT Recommendation Q.65 [2].

This standard does not formally describe the relationship between this supplementary service and the basic call, but where possible this information is included for guidance.

This standard does not specify the requirements where the service is provided to the user via a private ISDN.

This standard does not specify the requirements for the allocation of defined functional entities within a private ISDN; it does however define which functional entities may be allocated to 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.

The MCID supplementary service is applicable to all telecommunications services.

This standard is applicable to the stage three standards for the ISDN MCID supplementary service. The term "stage three" is 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 three standards.

Conformance to this standard is met by conforming to the stage three standards 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 ETS 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 Q.65 (1988): "Stage 2 of the method for the characterisation of services supported by an ISDN."
- [3] CCITT Recommendation I.112 (1988): "Vocabulary of terms for ISDNs".
- [4] CCITT Recommendation Q.71 (1988): "ISDN 64 kbit/s circuit mode switched bearer services".
- [5] CCITT Recommendation Z.100 (1988): "Functional Specification and Description Language (SDL)."

### 3 Definitions

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

**Integrated Services Digital Network (ISDN):** see CCITT Recommendation I.112 [3], § 2.3, definition 308.

**Service; telecommunications service:** see CCITT Recommendation I.112 [3], § 2.2, definition 201.

### 4 Symbols and abbreviations

For the purposes of this standard, the following symbols and abbreviations apply:

|      |  |
|------|--|
| CC   | Call Control, typically a LE               |
| CCA  | Call Control Agent, typically a TE         |
| CLI  | Calling Line Identity                      |
| FE   | Functional Entity                          |
| FEA  | Functional Entity Action                   |
| LE   | Local Exchange                             |
| PTNX | Private Telecommunication Network Exchange |
| TE   | Terminal Equipment                         |

### 5 Description

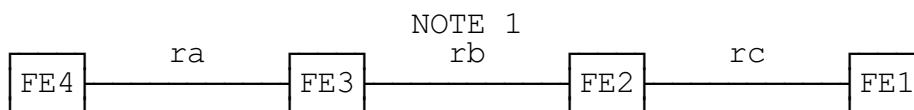
Not applicable.

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### 6 Derivation of the functional model

#### 6.1 The functional model description

The functional model for the MCID supplementary service is shown in figure 1.



NOTE 1: This model recognises that a Private Telecommunication Network Exchange (PTNX) (NT2) will require service control functionality (i.e. FE2) to be provided by the PTNX. For the case where no PTNX is involved, e.g. Terminal Equipment (TE) directly connected, generally by basic access, neither FE2 nor relationship rb exists.

NOTE 2: It is assumed that a PTNX uses access link clearing procedures independent of the extension clearing procedures. FE2 shall meet the requirements of the stage 1 service description and shall not delay the access throughput (see ETS 300 128 (1992), subclause 6.2.3).

NOTE 3: FE4 provides Calling Line Identity (CLI), when requested from FE3.

**Figure 1**

**6.2 Description of the functional entities**

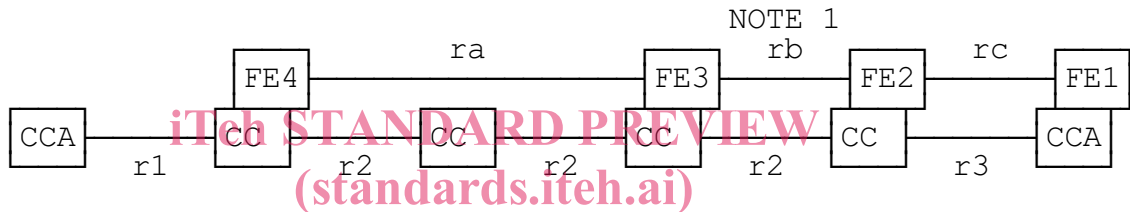
The Functional Entities (FEs) required by the MCID supplementary service above those of the basic call are as follows:

- FE1 MCID agent of the served user;
- FE2 MCID control of served PTNX user;
- FE3 MCID control of served user;
- FE4 MCID control of the call originating network entity.

**6.3 Relationship with a basic service**

The relationship to a basic service is shown in figure 2.

NOTE: The basic call model is defined in CCITT Recommendation Q.71 [4], §2.1 with the exception that r1 represents an outgoing call relationship from a Call Control Identity (CCA) and r3 represents an incoming call relationship to a CCA.



NOTE 1: For the case where no PTNX is involved, e.g. TE directly connected, generally by basic access, neither FE2 nor relationship rb exists.

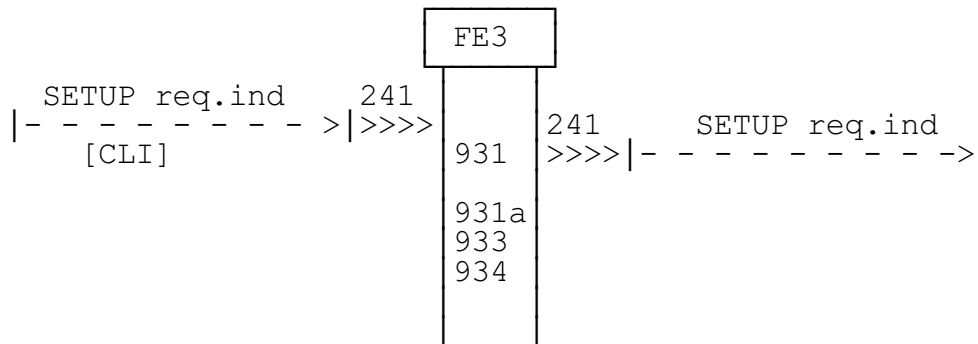
**Figure 2**

**7 Information flows**

**7.1 Information flow diagrams**

The initiation of functional entity actions at functional entities and the information flow between FEs is shown in figures 3 to 8.

**7.1.1 Entry into the MCID service at FE3**



**Figure 3**