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**01-april-2006**

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**Prizemni snopovni radio (TETRA) – Govor in podatki (V+D) – 12. del: Dopolnilne storitve stopnje 3 – 1. poddel: Identifikacija klica (CI)**

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 12: Supplementary services stage 3; Sub-part 1: Call Identification (CI)

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# ETSI EN 300 392-12-1 V1.2.1 (2004-01)

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*European Standard (Telecommunications series)*

**Terrestrial Trunked Radio (TETRA);  
Voice plus Data (V+D);  
Part 12: Supplementary services stage 3;  
Sub-part 1: Call Identification (CI)**

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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Project Terrestrial Trunked Radio (TETRA).

The present document is part 12, sub-part 1 of a multi-part deliverable covering the Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D), as identified below:

EN 300 392-1: "General network design";

EN 300 392-2: "Air Interface (AI)";

EN 300 392-3: "Interworking at the Inter-System Interface (ISI)";

ETS 300 392-4: "Gateways basic operation";

EN 300 392-5: "Peripheral Equipment Interface (PEI)";

EN 300 392-7: "Security";

EN 300 392-9: "General requirements for supplementary services";

EN 300 392-10: "Supplementary services stage 1";

EN 300 392-11: "Supplementary services stage 2";

**EN 300 392-12: "Supplementary services stage 3";**

**EN 300 392-12-1: "Call Identification (CI)";**

ETS 300 392-12-2: "Call Report (CR)";

EN 300 392-12-3: "Talking Party Identification (TPI)";

EN 300 392-12-4: "Call Forwarding (CF)";

ETS 300 392-12-5: "List Search Call (LSC)";

EN 300 392-12-6: "Call Authorized by Dispatcher (CAD)";

ETS 300 392-12-7: "Short Number Addressing (SNA)";

EN 300 392-12-8: "Area Selection (AS)";

ETS 300 392-12-9: "Access Priority (AP)";

EN 300 392-12-10: "Priority Call (PC)";

ETS 300 392-12-11: "Call Waiting (CW)";

EN 300 392-12-12: "Call Hold (HOLD)";

- ETS 300 392-12-13: "Call Completion to Busy Subscriber (CCBS)";
- EN 300 392-12-14: "Late Entry (LE)";
- ETS 300 392-12-16: "Pre-emptive Priority Call (PPC)";
- EN 300 392-12-17: "Include Call (IC)";
- EN 300 392-12-18: "Barring of Outgoing Calls (BOC)";
- EN 300 392-12-19: "Barring of Incoming Calls (BIC)";
- ETS 300 392-12-20: "Discreet Listening (DL)";
- EN 300 392-12-21: "Ambience Listening (AL)";
- EN 300 392-12-22: "Dynamic Group Number Assignment (DGNA)";
- ETS 300 392-12-23: "Call Completion on No Reply (CCNR)";
- ETS 300 392-12-24: "Call Retention (CRT)";
- ETS 300 392-13: "SDL model of the Air Interface (AI)";
- ETS 300 392-14: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- TS 100 392-15: "TETRA frequency bands, duplex spacing and channel numbering";
- TS 100 392-16: "Network Performance Metrics";
- TS 100 392-17: "TETRA V+D and DMO Release 1.1 specifications".

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Date of adoption of this EN:	19 December 2003
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# 1 Scope

The present document specifies the stage 3 description of the Supplementary Services CLIP, CLIR and COLP all part of Call Identification for the Terrestrial Trunked Radio (TETRA). The term "Line" is used in the present document to design either the line of a "LS" Line Station or by extension the TETRA Air Interface.

NOTE 1: In order to use the same name for supplementary services as ECMA.

Calling Line Identification Presentation (SS-CLIP) is a supplementary service which is offered to the called user and which provides the calling user identity.

Connected Line Identification Presentation (SS-COLP) is a supplementary service which is offered to the calling user and which provides the connected user identity.

Calling/connected Line Identification Restriction (SS-CLIR) is a supplementary service offered to a user to restrict presentation of that user's identity to another user.

Man-Machine Interface and charging principles are outside the scope of the present document.

The supplementary service stage 3 description is preceded by the stage 1 and the stage 2 description of the service, according to the method described in ITU-T Recommendation I.130 [1]. The stage 1 description specifies the service from the user's point of view. The stage 2 description identifies the functional capabilities of each SS and the information flows needed to support the supplementary service as specified in its stage 1 description. The present stage 3 description specifies the protocols at the air interface and at the various Inter-System Interfaces (ISI) to support each Supplementary Service.

NOTE 2: According to ITU-T Recommendation I.130 [1], the stage 3 description of any telecommunication service addresses the network implementation aspects. Consequently it comprises two steps: the specifications of all protocols at the various reference points involved in any of the service procedures (notably the service operation) are the first step of the stage 3 description, and the specifications of the functions of the corresponding network entities are its second step. The latter have not been provided since they can be derived from the specification of the functional entity actions in the stage 2 description.

The present document is applicable to Voice plus Data individual call or group call; the present document is neither applicable to Packet Mode of Operation nor to DMO; more specifically to the following entities:

- the MS/LS of either the calling user or the connected user during an individual call or a group call;
- the originating Switching and Management Infrastructure (SwMI) in an individual call or a group call;
- the group controlling SwMI and the participating SwMI for a group call;
- the terminating SwMI in an individual call;
- the interworking SwMI for either an individual call or a group call.

## 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.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

- [1] ITU-T Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [2] ETSI EN 300 171: "Private Integrated Services Network (PISN); Service description, functional capabilities and information flows; Circuit-mode 64 kbit/s bearer services [ISO/IEC 11574 (2000) modified]".
- [3] ETSI EN 300 392-1: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 1: General network design".
- [4] ETSI EN 300 392-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".
- [5] ETSI EN 300 392-3: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI)".
- [6] ETSI EN 300 392-9: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 9: General requirements for supplementary services".
- [7] ETSI EN 300 392-10-1: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 1: Call Identification (CI)".
- [8] ETSI EN 300 392-11-1: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 11: Supplementary services stage 2; Sub-part 1: Call Identification (CI)".
- [9] Standard ECMA-148: "Private Integrated Services Network (PISN) - Specification, Functional Model and Information Flows - Identification Supplementary Services (ISSD)".
- [10] ITU-T Recommendation Z.100: "Specification and Description Language (SDL)".
- [11] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
- [12] Void.
- [13] ITU-T Recommendation X.121: "International numbering plan for public data networks".
- [14] ETSI EN 300 392-3-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 2: Additional Network Feature Individual Call (ANF-ISIIC)".
- [15] ETSI EN 300 392-3-3: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 3: Additional Network Feature Group Call (ANF-ISIGC)".
- [16] ETSI EN 300 392-3-5: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 5: Additional Network Feature for Mobility Management (ANF-ISIMM)".

- [17] ETSI ETS 300 392-10-3: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 3: Talking Party Identification (TPI)".

## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

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

**affected user:** In the case of SS-CLIP it is the calling user (even in a group), in the case of SS-COLP it is the connected user, in the case of SS-CLIR it is the connected user and in the case of SS-COLR it is the calling user.

**calling user identity:** See in EN 300 392-1 [3], clause 7.2 where ITSI and SSI are defined.

NOTE: When the connected user and the calling user belongs to the same home SwMI, and according to clause 8.4.1 of EN 300 392-9 [6], this identity may be given using only the SSI part of the ITSI. In all other cases, the identity will be the full ITSI. In the case of a group call, the calling user identity shall be the individual ITSI setting up the group call

**connected user:** user that answers a call

NOTE: Different from ECMA-148 [9] and may be different from called user.

**connected user identity:** identity of the connected user for identification purposes

NOTE 1: As defined in EN 300 392-1 [3], clause 7.2 where ITSI and SSI are defined.

NOTE 2: When the connected user and the calling user belongs to the same home SwMI, and according to clause 8.4.1 of EN 300 392-9 [6], this identity may be given using only the SSI part of the ITSI. In all other cases, the identity will be the full ITSI. In the case of a group call, the connected user identity is defined as the GTSI.

**served user:** served user in the case of SS-CLIP is the connected user; the served user in the case of SS-COLP is the calling user; in the ECMA terminology, SS-CLIR includes the SS-CLIR restriction of SS-CLIP and the SS-COLR restriction of SS-COLP

NOTE: In the present document SS-CLIR and SS-COLR will be used preferably to a generic SS-CLIR term; thus in the case of SS-CLIR as applicable to the present document, the served user is the calling user and in the case of SS-COLR, the served user is the connected user.

### 3.2 Symbols

For the purposes of the present document, the symbols defined in ITU-T Recommendation Z.100 [10] relating to SDL apply.

### 3.3 Abbreviations

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

ANF-ISIGC	Additional Network Feature - Inter-System Interface Group Call
ANF-ISIIC	Additional Network Feature - Inter-System Interface Individual Call
ANF-ISIMM	Additional Network Feature - Inter-System Interface Mobility Management
CC	basic service Call Control functional entity
CCA	basic service Call Control functional entity Agent

NOTE: CC and CCA are applied as defined in EN 300 171 [2].

CGLI	CallinG Line Identification (ECMA)
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction

CMCE	Circuit Mode Control Entity
COLI	COnnected Line Identification
COLP	COnnected Line Presentation
COLR	COnnected Line Restriction
GTSI	Group TETRA Subscriber Identity
ISI	Inter System Interface
ITSI	Individual TETRA Subscriber Identity
LS	Line Station
MS	Mobile Station
PDU	Protocol Data Unit
SDL	(Functional) Specification and Description Language
SS	Supplementary Service

NOTE: The abbreviation SS is only used when referring to a specific supplementary service.

SSI	Short Subscriber Identity
SwMI	Switching and Management Infrastructure
TNSS-SAP	Tetra Network layer Supplementary Service- Service Access Point

## 4 Signalling protocol for the support of SS-CLIP and SS-CLIR

### 4.1 SS-CLIP and SS-CLIR description

#### 4.1.1 SS-CLIP service description

##### 4.1.1.1 General

SS-CLIP is a supplementary service offered to the connected user; it provides the calling user's identity (without any calling user's sub address information in the case of TETRA call) to the connected user. The information presented to the connected user shall consist of the identity of the calling user in a form sufficient to return the call (SSI, ITSI for TETRA call; National, International number for interworking call).

This clause describes SS-CLIP specific services offered by the Circuit Mode Control Entity (CMCE) at the Supplementary Services service access point (TNSS-SAP) of the TETRA voice plus data layer 3 service boundary in a TETRA Mobile Station (MS) or TETRA Line Station (LS). The SS-CLIP service access point is used in conformance testing as a normative boundary in MSs and LSs.

NOTE: All the service primitives have been shown without a TNSS-CLIP-prefix.

##### 4.1.1.2 SS-CLIP services offered over the TNSS-SAP

NOTE: As man-machine interface or user applications are outside the scope of the present document service primitives are used to define information exchange to and from the standardized part of the MS/LS. Those primitives may be only indirectly accessible.

The SS-CLIP service primitive at the served user MS/LS TNSS-SAP shall be:

- INFORM1 indication.

### 4.1.1.3 INFORM1 indication

The INFORM1 indication primitive shall be sent to the connected user application by the MS/LS CMCE over TNSS-SAP as a result of SS-CLIP operation. The INFORM1 indication primitive shall contain the SS-CLIP parameters listed in table 1. Normal use of SS-CLIP INFORM1 will be with SS-CLIR not invoked, override not implemented or not invoked.

**Table 1: Parameters for the primitive INFORM1 indication**

Parameter	Indication
SS-CLIR invoked for calling user	M
CallinG Line Identity (CGLI)	C (see note 1)
SS-CLIR overridden by connected user	O (see note 2)
NOTE 1: Conditional on SS-CLIR not having been invoked for calling user.	
NOTE 2: When override is implemented, INFORM1 may be presented with the indication that the identity of the calling user is provided due to override.	

### 4.1.2 Parameter description

SS-CLIR invoked for calling user:

- 00 not implemented or default mode;
- 10 no restriction;
- 11 restriction.

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SS-CLIR overridden by connected user:

- 1 overridden;
- 0 not overridden.

<https://standards.iteh.ai/catalog/standards/sist/97e9168e-ac11-4965-a7df-1dce332e3cd9/sist-en-300-392-12-1-v1-2-1-2006>

Calling Line Identity:

- Short Subscriber Identity (SSI);
- Short Subscriber Identity (SSI) + Address extension;
- Gateway identity;
- External subscriber number.

NOTE: The numbering plan, the type of number and the screening indicator are available to the connected user SwMI, not to the connected user application.

### 4.1.3 SS-CLIR description

#### 4.1.3.1 General

SS-CLIR is a supplementary service offered to the calling user. It restricts presentation of the calling user's identity to the connected user. When SS-CLIR has been invoked for a call, the originating SwMI shall provide the destination SwMI with the indication that the calling user's identity is not allowed to be presented to the connected user (exception for the case of override). In this case no calling user identity shall be included in the SET-UP PDU sent to the connected user.

Whether or not SS-CLIR has been invoked for that call, the calling user identity within SwMIs or over the ISI as part of the basic (individual or group) call procedures.