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

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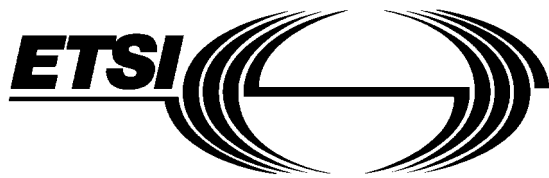
33.070.10	Prizemni snopovni radio (TETRA)	Terrestrial Trunked Radio (TETRA)
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Sub-part 3: Talking Party Identification (TPI)**

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Terrestrial Trunked Radio (TETRA) Project of the European Telecommunications Standards Institute (ETSI).

This ETS is a multi-part standard and will consist of the following parts:

- Part 1: "General network design";
- Part 2: "Air Interface (AI)";
- Part 3: "Interworking at the Inter-System Interface (ISI)";
- Part 4: "Gateways basic operation";
- Part 5: "Peripheral Equipment Interface (PEI)";
- Part 6: "Line connected Station (LS)";
- Part 7: "Security";
- Part 9: "General requirements for supplementary services";
- Part 10: "Supplementary services stage 1";
- Part 11: "Supplementary services stage 2";
- Part 12: "Supplementary services stage 3";**
- Part 13: "SDL model of the Air Interface (AI)";
- Part 14: "Protocol Implementation Conformance Statement (PICS) proforma specification".

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1 Scope

This ETS specifies the stage 3 description of the Supplementary Service Talking Party Identification (SS-TPI) for the Terrestrial Trunked Radio (TETRA).

The SS-TPI supplementary service enables the party/parties participating in a call to receive the identification of the talking/sending party. The SS-TPI is activated against individual identity in individual call and against group identity in group calls.

Man-Machine Interface (MMI) and charging principles are outside the scope of this ETS.

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 CCITT Recommendation I.130 [10]. The stage 1 description specifies the service from the user's point of view. The stage 2 description identifies the functional capabilities 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 SS-TPI.

NOTE: According to CCITT Recommendation I.130 [10], 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.

This ETS is applicable to Voice plus Data individual call or group call; more specifically to the following entities:

- the MS/LS of listening/receiving users during an individual call or a group call;
- to the originating Switching and Management Infrastructures (SwMIs) in an individual call or a group call;
- to the group home SwMI and the participating SwMI for a group call;
- to the terminating SwMI for an individual call;
- and, optionally, to the home SwMI of the group or of the MS/LSs involved, for managing the supplementary service.

2 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 300 392-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".
- [2] ETS 300 392-3-1: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 1: General design".
- [3] ETS 300 392-3-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-Systems Interface (ISI); Sub-part 2: Additional Network Functions Individual Call (ANF-ISIIC)".

- [4] ETS 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 Functions Group Call (ANF-ISIGC)".
- [5] ETS 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 Functions Mobility Management (ANF-ISIMM)".
- [6] ETS 300 392-9: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 9: General requirements for supplementary services".
- [7] 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)".
- [8] ETS 300 392-11-3: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 11: Supplementary services stage 2; Sub-part 3: Talking Party Identification (TPI)".
- [9] ETS 300 392-12-6: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 12: Supplementary services stage 3; Sub-part 6: Call Authorized by Dispatcher (CAD)".
- [10] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [11] ITU-T Recommendation Z.100: "CCITT specification and description language (SDL)".

3 Definitions and abbreviations

3.1 Definitions

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

authorized User: identified user who is allowed to define, activate, deactivate and/or interrogate the SS-TPI parameters

served user: listening/receiving party in a call, that receives the SS-TPI information. In a group call, all parties except the talking/sending party will be served users. In an individual call, if SS-TPI is provided to the calling and the connected users:

- if the call is half-duplex, whenever one of the two parties becomes the talking/sending user, the other party is the served user;
- if the call is duplex, both of them are served users.

served user SwMI: in the case of an individual call, SwMI where the served user is registered, or in the case of a group call, any SwMI where served users are registered different from the group controlling SwMI. The protocol specified for the start of the call in this ETS for such SwMI applies independently of whether or not the/a served user is registered in that SwMI at that time (i.e. the user registered in that SwMI involved the call may be talking/sending at set-up time, and become served user only later during the call)

talking/sending user: party to whom transmission permission has been granted during a group call or a half-duplex individual call. That party may change during a call

talking/sending user SwMI: SwMI where the talking/sending user is registered. That definition applies without restriction in the case of an individual call. In the case of a group call, the talking/sending user SwMI exists only when it is different from the group controlling SwMI, The protocol specified for the start of the call in this ETS for such SwMI applies independently of whether or not the talking/sending user is registered in that SwMI at that time (i.e. the user registered in that SwMI involved the call may be listening/receiving at set-up time, i.e. thus the/a served user, and become talking/sending user only later during the call)

In addition, the other definitions given in ETS 300 392-9 [6] shall apply.

3.2 General abbreviations

For the purposes of this ETS, 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
ANF-ISISS	Additional Network Feature - Inter-System Interface Supplementary Service
GTSI	Group TETRA Subscriber Identity
ISI	Inter-System Interface
ITSI	Individual TETRA Subscriber Identity
LS	Line Station
MS	Mobile Station
PDU	Protocol Data Unit
ROSE	Remote Operation Service Element
SS	Supplementary Service

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

SwMI Switching and Management Infrastructure

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3.3 Supplementary service abbreviations

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

CAD	Call Authorized by Dispatcher
CLIR	Calling/connected Line Identification Restriction
COLP	Connected Line identification Presentation
TPI	Talking Party Identification

4 SS-TPI service description

4.1 General

SS-TPI enables a listening/receiving user in an individual or a group call to be provided with the identity of the talking/sending party, and on an optional basis, with its mnemonic name and/or with the level of priority of its request for transmission grant.

This subclause describes SS-TPI 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-TPI service access point is used in conformance testing as a normative boundary in MSs and LSs.

NOTE: As the present document only deals with the SS-TPI all the service primitives has been shown without a TNSS-TPI-prefix e.g. the TNSS-TPI-ACTIVATE request is shorten into an ACTIVATE request.

4.2 SS-TPI services offered over the TNSSAP

NOTE 1: 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-TPI service primitives at the served user MS/LS TNSS-SAP shall be:

- INFORM indication.

The SS-TPI service primitives at the authorized user MS/LS TNSS-SAP shall be:

- ACTIVATE request;
- ACTIVATE indication;
- DEFINE request;
- DEFINE indication;
- INFORM indication;
- INTERROGATE request;
- INTERROGATE indication;
- INTERROGATE BY NAME request;
- INTERROGATE BY NAME indication.

Any user to whom SS-TPI is provided should have the possibility to use the INTERROGATE primitives mentioned above, limited to its own ITSI and to GTSIs of groups he is member of.

NOTE 2: Formally, when such user is using the INTERROGATE primitives to know whether SS-TPI has been activated for him, and if yes with which optional subscription parameters, he is acting as a served user. While when he is using those primitives to know his mnemonic name, he is acting as a talking/sending user (since that name is going to be delivered to the served user(s)). However no difference have been made between the two cases, since during a call any user can be in turn a served user and talking/sending user.

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4.2.1 ACTIVATE indication standards.iteh.ai/catalog/standards/sist/8d655fca-6c33-4870-bdff-fc90085d759e/sist-ets-300-392-12-3-e1-2003

The ACTIVATE indication primitive shall be sent to the user application by the MS/LS CMCE over TNSS-SAP to inform it of the result of a previous ACTIVATE request.

If the previous request has been addressed to a SwMI for more than one identity, that SwMI may send its corresponding response either in one single request which applies to all those identities or in multiple requests.

The ACTIVATE indication primitive shall contain the SS-TPI parameters listed in table 1.

Table 1: Parameters for the primitive ACTIVATE indication

Parameter	Indication
Activation result	M (note 1)
TETRA identity/identities	M (note 2)
Activation state	C (notes 1 and 3)
NOTE 1:	There shall be only one activation result and one activation state per indication primitive.
NOTE 2:	It is optional to support more than one identity.
NOTE 3:	Conditional on the activation result.

4.2.2 ACTIVATE request

The ACTIVATE request primitive shall be sent to the MS/LS CMCE by the user application by over TNSS-SAP to activate SS-TPI.

The activation process shall support one TETRA identity in a request. Optionally it may support a list and/or range of identities. Such identity/identities may be those of either individual users or of groups.

The ACTIVATE request primitive shall contain the SS-TPI parameters listed in table 2.

Table 2: Parameters for the primitive ACTIVATE request

Parameter	Request
Access priority	O
TETRA identity/identities	M (note 1)
Activation request	M (note 2)
NOTE 1:	It is optional to support more than one identity.
NOTE 2:	There shall be only one activation request per request primitive.

4.2.3 DEFINE indication

The DEFINE indication primitive shall be sent to the user application by the MS/LS CMCE over TNSS-SAP to inform it of the result of a previous DEFINE request.

If the previous request has been addressed to a SwMI for more than one identity, that SwMI may send its corresponding response either in one single request which applies to all those identities or in multiple requests.

The DEFINE indication primitive shall contain the SS-TPI parameters listed in table 3.

Table 3: Parameters for the primitive DEFINE indication

Parameter	Indication
Definition result	M (note 1)
TETRA identity/identities	M (note 2)
Activation state	C (notes 1 and 3)
NOTE 1:	There shall be only one definition result and one activation state per indication primitive.
NOTE 2:	It is optional to support more than one identity.
NOTE 3:	Conditional on the definition result.