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Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 3: Talking Party Identification (TPI)

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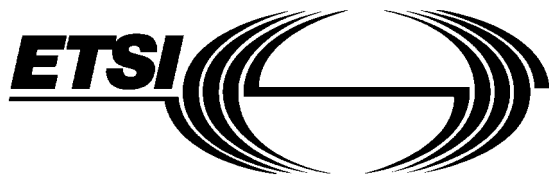
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Foreword

This final draft European Telecommunication Standard (ETS) has been produced by the Terrestrial Trunked RAdio (TETRA) Project of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards Approval Procedure.

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: "Inter-working";

Part 4: "Gateways";

Part 5: "Peripheral equipment interface";

Part 6: "Line connected stations";

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";

Part 14: "PICS Proforma".

Proposed transposition dates	
Date of latest announcement of this ETS (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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1 Scope

This ETS defines the stage 1 description of the Talking Party Identification (TPI) supplementary service for the Terrestrial Trunked Radio (TETRA) as provided by European operators. The stage 1 description is an overall service description from the users point of view but does not deal with the details of the human interface itself (see ITU-T Recommendation I.130 [1]).

This ETS specifies the service description of the supplementary service and the procedures to be expected with successful and unsuccessful outcomes. In addition the ETS specifies the interactions with other TETRA supplementary services and inter-working considerations.

Charging principles are outside the scope of this ETS.

The TPI supplementary service enables parties in a call to receive the identification of the talking party.

2 References

This ETS incorporates by dated and 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]   ITU-T Recommendation I.130: "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

[2]   ITU-T Recommendation Z.100: "Specification and Description Language (SDL)".

[3]   ITU-T Recommendation I.112: "Vocabulary of terms for ISDNs".

[4]   ITU-T Recommendation I.210: "Principles of telecommunication services supported by an ISDN and the means to describe them".

[5]   ITU-T Recommendation Q.9: "Vocabulary of switching and signalling terms".

3 Definitions and abbreviations

3.1 Definitions

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

authorized user: user who may activate or deactivate the supplementary service, and/or define mnemonic names and/or place interrogations to know another user's activation state and either his mnemonic name or his identity.

basic (…) service: any stand alone bearer service or teleservice (derived from ITU-T Recommendation I.210 [4]).

bearer service: type of telecommunication service that provides the capability for the transmission of signals between user-network interfaces (defined in ITU-T Recommendation I.112 [3]).

listening/receiving parties: participants in a call who are not transmitting.

Mobile Station (MS): physical grouping that contains all of the mobile equipment that is used to obtain TETRA services. By definition, a mobile station contains at least one Mobile Radio Stack (MRS).

served user: user who is provided with SS-TPI when he is listening/receiving during a call.

Supplementary Service (SS): any service provided by a network in addition to its basic service or services (defined in ITU-T Recommendation Q.9 [5]). A supplementary service modifies or supplements a basic telecommunication service. Consequently, it cannot be offered to a customer as a stand alone service. It must be offered together with or in association with a basic telecommunication service (except from ITU-T Recommendation I.210 [4]).

switching and management infrastructure: all of the TETRA equipment for a Voice plus Data (V+D) network. The SwMI enables subscriber terminals to communicate with each other via the SwMI.

Talking/sending party: member of the call who has been given permission to transmit.

teleservice: type of telecommunications service that provides the complete capability, including terminal equipment functions, for communication between users according to agreed protocols(defined in ITU-T Recommendation I.112 [3] except for a minor change at the end).

3.2 Abbreviations

3.2.1 General abbreviations

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

GTSI	Group TETRA Subscriber Identity
ISDN	Integrated Services Digital Network
ITSI	Individual TETRA Subscriber Identity
LS	Line Station
MRS	Mobile Radio Stack
MS	Mobile Station
SDL	(Functional) Specification and Description Language
SS	Supplementary Service

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

SwMI	Switching and Management Infrastructure
TETRA	Trans-European Trunked RAdio
V+D	Voice Plus Data

3.2.2 Supplementary service abbreviations

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

CLIP	Calling Line Identification Presentation
CLIR	Calling/Connected Line Identification Restriction
TPI	Talking Party Identification

All other supplementary services abbreviations to be listed here (see subclause 4.3).

AL	Ambience Listening
AoC	Advice Of Charge (supplementary service)
AS	Area Selection
AP	Access Priority
BIC	Barring of Incoming Calls
BOC	Barring of Outgoing Calls
CAD	Call Authorized by Dispatcher
CCBS	Call Completion to Busy Subscriber
CCNR	Call Completion on No Reply
CFB	Call Forwarding on Busy
CFNRy	Call Forwarding on No Reply
CFU	Call Forwarding unconditional
COLP	COnnected Line identification Presentation (supplementary service)
CRT	Call ReTention
CW	Call Waiting
DGNA	Dynamic Group Number Assignment

DL	Discreet Listening
IC	Include Call
LE	Late Entry
LSC	List Search Call
PC	Priority Call
PPC	Pre-emptive Priority Call
SNA	Short Number Addressing
TC	Transfer of Control

4 SS-TPI stage 1 description

4.1 Description

4.1.1 General description

Talking Party Identification (TPI) enables the parties to be made aware of the identity of the talking/sending party. Optionally, the talking party mnemonic name may be delivered and/or the priority level of the talking/sending party requests for transmission permission grant.

4.1.2 Qualifications on applicability to telecommunication services

This supplementary service shall be applicable to all TETRA circuit mode teleservices and bearer services.

4.2 Procedures

4.2.1 Provision/Withdrawal

SS-TPI is available to all TETRA users with the ability to receive this information.

Subscription shall be on a TETRA number (Individual TETRA Subscriber Identity (ITSI)/Group TETRA Subscriber Identity (GTSI)) basis. For each ITSI/GTSI, the supplementary service may be subscribed to for every applicable service subscribed to, or for only some.

SS-TPI may be provided with the subscription options defined in table 1.

Table 1: SS-TPI subscription parameters

Subscription parameter	Value
Delivery of talking/sending party's mnemonic name.	-Yes - No
Delivery of priority levels of talking/sending party's requests for transmission permission grant.	- Yes - No

4.2.2 Normal procedures

4.2.2.1 Activation/Deactivation, definition, registration, interrogation and cancellation

4.2.2.1.1 Activation/Deactivation

SS-TPI may be activated for an ITSI or a GTSI upon provision for speech and/or for data services. If activated, it shall be deactivated upon withdrawal.

As an implementation option the authorized user may activate and/or deactivate the supplementary service also for an ITSI or a GTSI for telephony teleservices and/or for data bearer services.