



SLOVENSKI STANDARD
SIST EN 300 392-10-14 V1.2.1:2003
01-april-2003

Prizemni snopovni radio (TETRA) - Govor in podatki (V+D) - 10. del: Dopolnilne storitve stopnje 1 - 14. poglavje: Poznejši vstop (LE)

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 14: Late Entry (LE)

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Ta slovenski standard je istoveten z: **EN 300 392-10-14 Version 1.2.1**

SIST EN 300 392-10-14 V1.2.1:2003
<https://standards.iteh.ai/catalog/standards/sist/e05dc5bc-3cc5-4b3a-b66a-d0b199109ac1/sist-en-300-392-10-14-v1-2-1-2003>

ICS:

33.070.10	Prizemni snopovni radio (TETRA)	Terrestrial Trunked Radio (TETRA)
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SIST EN 300 392-10-14 V1.2.1:2003 **en**

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ETSI EN 300 392-10-14 V1.2.1 (2002-09)

European Standard (Telecommunications series)

**Terrestrial Trunked Radio (TETRA);
Voice plus Data (V+D);
Part 10: Supplementary services stage 1;
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Reference

REN/TETRA-03001-10-14

Keywords

data, late entry, radio, speech, stage 1,
supplementary service, TETRA

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

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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 10, sub-part 14 of a multi-part deliverable covering 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";**
 - Sub-part 1: "Call identification";
 - Sub-part 2: "Call report";
 - Sub-part 3: "Talking Party Identification (TPI)";
 - Sub-part 4: "Call Forwarding (CF)";
 - Sub-part 5: "List Search Call (LSC)";
 - Sub-part 6: "Call Authorized by Dispatcher (CAD)";
 - Sub-part 7: "Short number addressing";
 - Sub-part 8: "Area selection";
 - Sub-part 9: "Access priority";
 - Sub-part 10: "Priority Call (PC)";
 - Sub-part 11: "Call Waiting (CW)";
 - Sub-part 12: "Call Hold (CH)";
 - Sub-part 13: "Call completion to busy subscriber";
 - Sub-part 14: "Late Entry (LE)";**

- Sub-part 15: "Transfer of control";
- Sub-part 16: "Pre-emptive priority call";
- Sub-part 17: "Include Call (IC)";
- Sub-part 18: "Barring of Outgoing Calls (BOC)";
- Sub-part 19: "Barring of Incoming Calls (BIC)";
- Sub-part 20: "Discreet Listening (DL)";
- Sub-part 21: "Ambience Listening (AL)";
- Sub-part 22: "Dynamic Group Number Assignment (DGNA)";
- Sub-part 23: "Call completion on no reply";
- Sub-part 24: "Call Retention (CRT)";
- EN 300 392-11: "Supplementary services stage 2";
- EN 300 392-12: "Supplementary services stage 3";
- 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 spacings and channel numbering";
- TS 100 392-16: "Network Performance Metrics";
- TS 100 392-17: "TETRA V+D and DMO Release 1.1 specifications";

SIST EN 300 392-10-14 V1.2.1:2003
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 National transposition dates

Date of adoption of this EN:	13 September 2002
Date of latest announcement of this EN (doa):	31 December 2002
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 June 2003
Date of withdrawal of any conflicting National Standard (dow):	30 June 2003

1 Scope

The present document defines the stage 1 specifications of the Supplementary Service Late Entry (SS-LE) for the Trans-European Trunked Radio (TETRA). Stage 1 is an overall service description from the users point of view but does not deal with the details of the human interface itself.

The present document specifies the service description of the supplementary service and the procedures to be expected with successful and unsuccessful outcomes. In addition the present document specifies the interactions with other TETRA supplementary services and interworking considerations.

Charging principles are outside the scope of the present document.

The SS-LE allows radio users to be informed of and, if they are concerned, to join an already existing multipoint speech or data 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.

[1] ITU-T Recommendation Z.100: "Specification and description language (SDL)".

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3 Definitions and abbreviations

3.1 Definitions

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

authorized user: identified user who is able to define the SS-LE parameters

bearer service: type of telecommunication service that provides the capability for the transmission of signals between user-network interfaces

forced late entry: User is forced to join to the indicated call.

NOTE: As a user application in the mobile station, the user may be forced to join the multipoint call as soon as a late entry broadcast or late entry paging message is received. If the user is already engaged in another communication, the user may be forced to join the highest priority call.

late entry acknowledgement: indication sent in SS-LE messages by the Switching and Management Infrastructure (SwMI) to inform a member who would like to join the call that he has to inform the SwMI of his entering the call

late entry broadcast: indication sent by the SwMI to inform members of a multipoint call which are currently not already involved in this call that they can join directly an existing communication (a channel is already allocated in this cell)

late entry paging: indication sent by the SwMI to inform members of a multipoint call which are currently not already involved in this call, that they need to ask for a communication channel for that call if they want to participate (a channel is not yet allocated in this cell)