



**SLOVENSKI STANDARD**  
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**Prizemni snopovni radio (TETRA) – Govor in podatki (V+D) – 10. del: Dopolnilne storitve stopnje 1 – 21. poglavje: Poslušanje okolice (AL)**

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 21: Ambience Listening (AL)

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*European Standard (Telecommunications series)*

**Terrestrial Trunked Radio (TETRA);  
Voice plus Data (V+D);  
Part 10: Supplementary services stage 1;  
Sub-part 21: Ambience Listening (AL)**

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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 21 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";**
  - ETS 300 392-10-1: "Call identification";
  - ETS 300 392-10-2: "Call report";
  - ETS 300 392-10-3: "Talking Party Identification (TPI)";
  - EN 300 392-10-4: "Call Forwarding (CF)";
  - ETS 300 392-10-5: "List Search Call (LSC)";
  - ETS 300 392-10-6: "Call Authorized by Dispatcher (CAD)";
  - ETS 300 392-10-7: "Short number addressing";
  - ETS 300 392-10-8: "Area selection";
  - ETS 300 392-10-9: "Access priority";
  - EN 300 392-10-10: "Priority Call (PC)";
  - ETS 300 392-10-11: "Call Waiting (CW)";
  - ETS 300 392-10-12: "Call Hold (CH)";
  - ETS 300 392-10-13: "Call completion to busy subscriber";
  - EN 300 392-10-14: "Late Entry (LE)";

- ETS 300 392-10-15: "Transfer of control";
- ETS 300 392-10-16: "Pre-emptive priority call";
- EN 300 392-10-17: "Include Call (IC)";
- EN 300 392-10-18: "Barring of Outgoing Calls (BOC)";
- EN 300 392-10-19: "Barring of Incoming Calls (BIC)";
- ETS 300 392-10-20: "Discreet Listening (DL)";
- EN 300 392-10-21: "Ambience Listening (AL)";**
- EN 300 392-10-22: "Dynamic Group Number Assignment (DGNA)";
- ETS 300 392-10-23: "Call completion on no reply";
- ETS 300 392-10-24: "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";

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Date of adoption of this EN:	29 August 2003
Date of latest announcement of this EN (doa):	30 November 2003
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 May 2004
Date of withdrawal of any conflicting National Standard (dow):	31 May 2004



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# 1 Scope

The present document defines the stage 1 specifications of the Ambience Listening (AL) supplementary service 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 inter-working considerations.

Charging principles are outside the scope of the present document.

The AL supplementary service enables the served user to place an affected user's TETRA Mobile Station (MS) into a special type of individual voice call teleservice whereby the called MS shall transmit without any action from, or indication to, the affected user.

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# 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 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:

**affected user:** ambience listened-to user

**Mobile Station (MS):** physical grouping that contains all of the mobile equipment that is used to obtain TETRA services

NOTE: By definition, a mobile station contains at least one Mobile Radio Stack (MRS).

**served user:** user who invokes the supplementary service

**Switching and Management Infrastructure (SwMI):** all of the TETRA equipment for a Voice plus Data (V+D) network except for user terminals

NOTE: The SwMI enables user terminals to communicate with each other via the SwMI and multiple SwMIs may be connected together using Inter-System Interface (ISI).

**user:** any subscriber using or affected by SS-AL services

NOTE: The present document uses word "user" in the same meaning than word "subscriber" is often used.

## 3.2 Abbreviations

### 3.2.1 General abbreviations

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

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

### 3.2.2 Supplementary service abbreviations

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

AL	Ambience Listening
AP	Access Priority
AS	Area Selection
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
CFNRc	Call Forwarding on Not Reachable
CFU	Call Forwarding Unconditional
CLIP	Calling Line Identification Presentation
CLIR	Calling/Connected Line Identification Restriction
COLP	COnnected Line identification Presentation
CR	Call Report
CRT	Call ReTention
CW	Call Waiting
DGNA	Dynamic Group Number Assignment
DL	Discreet Listening
HOLD	Call HOLD
IC	Include Call
LE	Late Entry
LSC	List Search Call
PC	Priority Call
PPC	Pre-emptive Priority Call
SNA	Short Number Addressing
TPI	Talking Party Identification

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## 4 SS-AL stage 1 specification

### 4.1 Description

#### 4.1.1 General description

Ambience listening supplementary service (SS-AL) enables the served user to place affected user's TETRA Mobile Station (MS) into a special type of individual voice call teleservice so that the affected user's MS transmits without any action from, or indication to, the affected user. As an option SS-AL may be invoked during group call on a group call participating user. The SS-AL call may include a second listening party. The second listening party may be either individual user or a group.

The present document shall not preclude that during ambience listening the called mobile may make and receive calls as normal.

The ambience listening call shall not prevent affected user to send and receive short data messages.

If the user attempts to power off the terminal, which is in an SS-AL call, the terminal may continue the SS-AL call whilst appearing to shut down.

NOTE: A user can ask for SS-AL to be invoked on himself/herself by sending a pre-defined short data status to another user.

#### 4.1.2 Qualifications on applicability to telecommunications services

Ambience listening shall be a special TETRA speech service.

### 4.2 Procedures

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#### 4.2.1 Provision/Withdrawal

This service shall be provided by prior arrangement upon subscription with the service provider. The service provider may provide this service on a selective basis to individual TETRA users whilst barring it from others. The subscription may which affected users the served user is authorized ambience listened to.

Instead of subscription or in addition to it a password may be required at invocation of the SS-AL service.

Arrangements of provision, subscription and password procedures are outside the scope of the present document.

The service provider may withdraw this service at any time.

#### 4.2.2 Normal procedures

##### 4.2.2.1 Management of SS-AL service

###### 4.2.2.1.1 Activation/Deactivation

The service provider shall permanently activate this supplementary service as a result of the provision. The service provider deactivates the SS-AL service as a result of withdrawal.