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SIST ETS 300 392-10-20 E1:2003
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Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 20: Discreet listening

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) Technical Committee 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: "Inter-working", (DE/RES-06001-3).
- Part 4: "Gateways", (DE/RES-06001-4).
- Part 5: "Terminal equipment interface", (DE/RES-06001-5).
- Part 6: "Line connected stations", (DE/RES-06001-6).
- Part 7: "Security".
- Part 8: "Management services", (DE/RES-06001-8).
- Part 9: "Performance objectives", (DE/RES-06001-9).
- Part 10: "Supplementary services stage 1".**
- Part 11: "Supplementary services stage 2", (DE/RES-06001-11).
- Part 12: "Supplementary services stage 3", (DE/RES-06001-12).
- Part 13: "SDL Model of the Air Interface", (DE/RES-06001-13).
- Part 14: "PICS Proforma", (DE/RES-06001-14).
- Part 15: "Inter-working - Extended Operations", (DE/RES-06001-15).
- Part 16: "Gateways for Supplementary Services", (DE/RES-06001-16).

Transposition dates	
Date of adoption of this ETS:	1 March 1996
Date of latest announcement of this ETS (doa):	31 July 1996
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1 Scope

This European Telecommunication Standard (ETS) defines the stage 1 specifications of the Discreet Listening (DL) supplementary service for the Trans-European Trunked RAdio (TETRA) as provided by European operators. 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.

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

Charging principles are outside the scope of this ETS.

The DL supplementary service shall enable an authorized user to listen to one or more communications between TETRA subscribers (Mobile Station (MS) or Line Station (LS)) without any indication to any user that the communication is being monitored.

2 Normative 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] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

[2] ITU-T Recommendation Z.100 (1993): "Specification and Description Language (SDL)".

3 Definitions and abbreviations

3.1 Definitions

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

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

Mobile Station (MS): A 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).

monitoring party: The authorised user who requests the discreet listening.

Supplementary Service (SS): A supplementary service modifies or supplements a bearer service or a teleservice. A supplementary service cannot be offered to a customer as a stand alone service. It should be offered in combination with a bearer service or a teleservice.

Switching And Management Infrastructure (SwMI): All of the TETRA equipment for a Voice plus Data (V+D) network except for subscriber terminals. The SwMI enables subscriber terminals to communicate with each other via the SwMI.

talk group: Those TETRA users, terminals or gateways between which any communication shall be monitored.

teleservice: A type of telecommunications service that provides the complete capability, including terminal equipment functions, for communication between users according to agreed protocols.

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
MS	Mobile Station
MRS	Mobile radio Stack
DL	(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 this ETS, the following supplementary service abbreviations apply:

AL	Ambience Listening
AoC	Advice of Charge
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
TC	Transfer of Control
TPI	Talking Party Identification

4 SS-DL stage 1 specification

4.1 Description

4.1.1 General description

Discreet listening shall be defined as the facility whereby an authorized user may listen to one or more communications between TETRA subscribers (MS or Line Station (LS)) without any indication to any subscriber that the communication is being monitored. Identification of the talking parties shall be given to the monitoring party. As an implementation option the monitoring party may further be allowed to enter into the conversation and/or may clear the call if required.

4.1.2 Qualifications on applicability to telecommunication services

Discreet listening shall be applicable to all speech TETRA teleservices and bearer services.

4.2 Procedures

4.2.1 Provision/Withdrawal

This service shall be provided by prior arrangement with the service provider.

To provide DL, the served user shall supply to the operator:

- 1) the talk group which may be monitored;
- 2) the basic service which shall be applicable to the talk groups, e.g. clear speech group call.

Verification of the talk groups should be accomplished before completing the discreet listening provision. This verification shall be completed by a check of the talk group numbers to ascertain if the numbers are within the jurisdiction of the user, and within the allowed number range.

When the monitoring party is provided with SS-DL, the service provider shall return notification of acceptance or rejection of the request. This notification shall include the talk groups and/or basic services to which discreet listening is registered.

This service may be withdrawn by the service provider.

4.2.2 Normal procedures

4.2.2.1 Activation, Deactivation, Definition, Registration, Interrogation, Cancellation

4.2.2.1.1 Activation

The supplementary service shall be activated for a teleservice by the appropriate procedures being used by the monitoring party and only if the supplementary service is registered for that teleservice. The supplementary service may be activated on a per call basis.

Alternatively, the supplementary service may be permanently activated by the network at the request of the user.

To activate DL, the served user shall supply:

- 1) the talk group;
- 2) the basic service applicable to the talk group, e.g. clear speech group call.

NOTE: If no basic service is indicated by the user, this shall be interpreted as all services.

When the served user so activates DL, the service provider shall return notification of acceptance or rejection of the request (see exceptional procedures for a list of possible causes for rejection). Notification of acceptance shall include the talk group number and the basic service to which the DL shall be active.