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Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 11: Supplementary services stage 2; Sub-part 21: Ambience Listening (AL)

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(TETRA)

Terrestrial Trunked Radio (TETRA)

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EUROPEAN TELECOMMUNICATION STANDARD

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Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Radio Equipment and Systems (RES) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry 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 desig	n".
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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 (SS) Stage 1".

Part 11: "Supplementary Services (SS) Stage 2".PREVIEW

Part 12: "Supplementary Services (SS) Stage 3"itch.ai)

Part 13: "SDL Model of the Air Interface".

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Part 14: "PICStProforma"ds(DE/RES-106001d414)/sist/c7cc067f-512f-4ec8-9db8-

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Part 15: "Inter-working - Extended Operations", (DE/RES-06001-15).

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 European Telecommunication Standard (ETS) defines the stage 2 specification of the Supplementary Service Ambience Listening (SS-AL) for the Trans-European Trunked Radio (TETRA) as provided by European operators. Stage 2 identifies the functional entities involved in the supplementary service and the information flows between them.

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

The SS-AL enables a served user to place a TETRA Mobile Station (MS) or Line Station (LS) into a special type of voice call teleservice whereby the called MS (or LS) transmits without any action from, or indication to, the affected user. The teleservice may include a second listening party.

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]	ETS 300 392-2: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".
[3]	ETS 300 392-1: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Voice plus Data (V+D); Part 1: General Network Design".
[4]	ITU-T Recommendation Z.100 (1993): "Specification and Description Language https://standards.gich.avcatalog/standards/sistvc/cc06/15121-4ec8-9db8-e1991623a318/sist-en-300-392-11-21-v1-1-1-2003

3 Definitions and abbreviations

3.1 Definitions

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

AL call: A call in which ambience listening functionality is requested. During the AL call, the affected user's MS (or LS) transmits without any action from, or indication to, the affected user.

affected user: The user who is subject to the operation.

served user: The user who is invoking this supplementary service.

second listening party: A TETRA individual or group which may listen into the AL call.

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3.2 Abbreviations

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

AL Ambience Listening

CC Call Control

CCA Call Control (functional entity Agent)

FE Functional Entity

GTSI Group TETRA Subscriber Identity
ISDN Integrated Services Digital Network
ITSI Individual TETRA Subscriber Identity

LS Line Station
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

4 Supplementary Service Ambience Listening (SS-AL) Stage 2 specification

4.1 Functional model

4.1.1 Functional model description

The functional model shall comprise the following Functional Entitles (FEs):

- FE1 served user's service agent; (standards.iteh.ai)
- FE2 ambience listening control entity in the served user's home system;
- FE3 affected user's service agent; teh.ai/catalog/standards/sist/c7cc067F-512f-4ec8-9db8-ei99f623a318/sist-en-300-392-11-21-v1-1-1-2003
- FE4 generic functional control entity in a visited system with respect to the served user;
- FE5 second listening party's service agent.

The following relationships shall exist between these FEs:

- ra between FE1 and FE2;
- rb between FE2 and FE3;
- rc between FE2 and FE4 in different systems;
- rd between FE4 and FE1;
- re between FE4 and FE3;
- rf between FE5 and FE2;
- rg between FE5 and FE4.

Figure 1 shows these FEs and their relationships.

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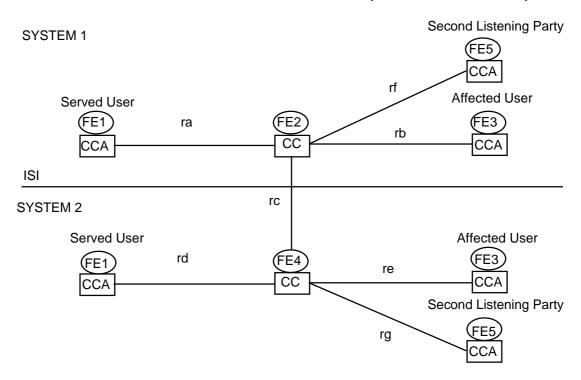


Figure 1: Operational and management functional model for SS-AL

4.1.2 Description of FEs

4.1.2.1 Served user's agent functional entity, FE1EVIEW

The function entity FE1 shall: receive interrogation and invocation information from the served user and information (positive or negative acknowledgements) about the executed service request from FE2 in order to deliver it to the served user. EN 300 392-11-21 V1.1.1:2003

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4.1.2.2 AL control functional entity (FE22-11-21-v1-1-1-2003

The functional entity FE2 shall:

- perform checks, give instructions and perform actions for the data received for interrogation and invocation;
- construct and deliver the PDUs;
- provide the affected user's application with applicable SS-AL data by sending it to the affected user's service agent FE3 via FE4 if the affected user is located in a different system;
- provide the served user's agent functional entity with the positive or negative acknowledgement of the requested service. This is sent to FE4 if the served user is in visited system;
- given that a second listening party is involved in the AL call, provide the second listening party's application with applicable SS-AL data by sending it to the second listening party's service agent FE5 via FE4 if the second listening party is located in a different system;
- if any exception conditions are noticed by SwMI, FE2 stops the execution of the service request and the AL call will be cleared down;
- clear down the AL call if a new incoming call is received for the affected user.