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Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 6: Call Authorized by Dispatcher (CAD)

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Prizemni snopovni radio
(TETRA)

Terrestrial Trunked Radio
(TETRA)

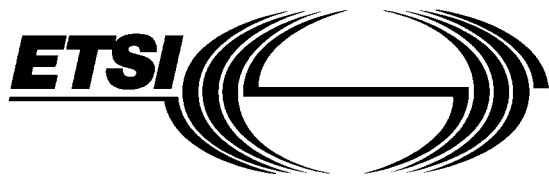
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Sub-part 6: Call Authorized by Dispatcher (CAD)**

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Foreword

This second edition European Telecommunication Standard (ETS) has been produced by the Terrestrial Trunked Radio (TETRA) Project 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: "Interworking at the Inter-System Interface (ISI)";
- Part 4: "Gateways basic operation";
- Part 5: "Peripheral Equipment Interface (PEI)";
- Part 6: "Line connected Station (LS)";
- 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 (AI)";
- Part 14: "Protocol Implementation Conformance Statement (PICS) proforma specification".

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Transposition dates	
Date of adoption of this ETS:	18 December 1998
Date of latest announcement of this ETS (doa):	31 March 1999
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 September 1999
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1 Scope

This European Telecommunication Standard (ETS) defines the stage 1 specifications of the Supplementary Service Call Authorized by Dispatcher (SS-CAD) for the Terrestrial Trunked Radio (TETRA) system. 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 interworking considerations.

Charging principles are outside the scope of this ETS.

The SS-CAD ensures that predefined TETRA calls do not proceed without first being authorized by a dispatcher.

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] 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:

authorized user: The user who can make service definition. The authorized user can also activate/deactivate and interrogate the service.

dispatcher: The user to whom the request for authorization is directed.

restricted user: The user who's calls are forced to be authorized by a dispatcher before the call can proceed. The restricted user can be either the calling user A or the called user B or both.

3.2 Abbreviations

3.2.1 General abbreviations

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

GTSI	Group TETRA Subscriber Identity
ITSI	Individual TETRA Subscriber Identity
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	Terrestrial 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:

SS-AL	Ambience Listening
SS-AoC	Advice of Charge
SS-AP	Access Priority
SS-AS	Area Selection
SS-BIC	Barring of Incoming Calls
SS-BOC	Barring of Outgoing Calls
SS-CAD	Call Authorized by Dispatcher
SS-CCBS	Call Completion to Busy Subscriber
SS-CCNR	Call Completion on No Reply
SS-CFB	Call Forwarding on Busy
SS-CFNRY	Call Forwarding on No Reply
SS-CFNRC	Call Forwarding on Not Reachable
SS-CFU	Call Forwarding Unconditional
SS-CLIP	Calling Line Identification Presentation
SS-CLIR	Calling/Connected Line Identification Restriction
SS-COLP	Connected Line Identification Presentation
SS-CR	Call Report
SS-CRT	Call Retention
SS-CW	Call Waiting
SS-DGNA	Dynamic Group Number Assignment
SS-DL	Discreet Listening
SS-HOLD	Call Hold
SS-IC	Include Call
SS-LE	Late Entry
SS-LSC	List Search Call
SS-PC	Priority Call
SS-PPC	Pre-emptive Priority Call
SS-SNA	Short Number Addressing
SS-TC	Transfer of Control
SS-TPI	Talking Party Identification

4 Supplementary Service Call Authorized by Dispatcher (SS-CAD) stage 1 specification

4.1 Description

4.1.1 General description

SS-CAD is defined as the ability of the dispatcher to verify and approve a call request before the call is allowed to proceed.

The supplementary service shall also apply to the option whereby the dispatcher authorization of incoming call requests to specified TETRA addresses is required before the service can proceed. The specified TETRA addresses may be TETRA users or gateways. The incoming calls may be generated inside or outside of the operator's TETRA domain.

The service shall enable interception of calls due to the following conditions:

- 1) restricted basic service request;
- 2) restricted destination or source address;
- 3) restricted area.

4.1.2 Qualifications on applicability to telecommunication services

SS-CAD shall be applicable to all TETRA speech and circuit mode data services.

4.2 Procedures

4.2.1 Provision and withdrawal

The SS-CAD supplementary service shall be provided by prior arrangement with the service provider.

This service may be withdrawn by the service provider.

Conditions for SS-CAD shall be defined and linked with the source, basic service request and destination of the call as shown in table 1.

Table 1: Implementation options, authorization conditions

Implementation options	Source	Basic service request	Destination
Restricted basic service	Internal TETRA number	Speech and circuit mode data services	Internal TETRA number, External to TETRA
Restricted destination address	Internal TETRA number	Speech and circuit mode data services	Internal TETRA number, External to TETRA
Restricted destination address	Other TETRA systems or gateways	Supported services	Internal TETRA number
Restricted source address	Internal TETRA number	Speech and circuit mode data services	Internal TETRA number, External to TETRA
Restricted source address	Other TETRA systems or gateways	Supported services	Internal TETRA number
Restricted area	Internal TETRA number	Speech and circuit mode data services	Specified TETRA area

As an implementation option, the calling user may receive information that the call is intercepted according to table 2.

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Table 2: Implementation options, interception information

Implementation options	Value
Information to the calling user	- No - Yes, without dispatcher's number - Yes, with dispatcher's number

4.2.1.1 Restricted basic service

To provide this implementation option the authorized user shall supply the following to the service provider:

- 1) the identifications of the restricted users to which authorization shall be given by the dispatcher before their request for service can proceed;
- 2) the restricted basic service applicable to each restricted user, for which authorization shall be given by the dispatcher, e.g. speech call;
- 3) the dispatcher address where all requests for service shall be diverted for approval.