SLOVENSKI STANDARD
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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

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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).

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Date of adoption of this ETS:	1 March 1996
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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 Trans-European Trunked RAdio System (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.

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 shall be outside the scope of this ETS.

The SS-CAD ensures that predefined TETRA calls shall 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]   CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

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

3 Definitions and abbreviations

3.1 Definitions

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

broadcast call: A multipoint call in which the same information is transmitted simultaneously by the calling terminal to all available terminals.

outgoing call: A call which, from the viewpoint of an individual participant in the call, is initiated by that participant.

restricted user: The user (individual TETRA user or a user via a gateway) who is required to seek authorization from the dispatcher before the request for service can proceed.

served user: The user or a group of users, to whom the request for authorization shall be directed to. It is normal that the served user is also the dispatcher that is responsible for that call.

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
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
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-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-SDS   Short Data Service
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 immediate interception of calls due to the following conditions:

1)   category of calling user;

2)   restricted basic service request;

3) restricted destination or source address;

4) restricted area.

4.1.2 Qualifications on applicability to telecommunication services

SS-CAD shall be applicable to all TETRA circuit mode teleservices and bearer services. SS-CAD shall not be applicable to Short Data Service (SDS).

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 or upon request from the served user.

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
Category of calling user	Internal TETRA number, restricted user's Individual TETRA Subscriber Identity (ITSI)	TETRA teleservices and bearer services	Internal TETRA number External to TETRA
Restricted basic service	Internal TETRA number, restricted user's ITSI	TETRA teleservices and bearer services	Internal TETRA number External to TETRA
Restricted destination address	Internal TETRA number, restricted user's ITSI	TETRA teleservices and bearer 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, restricted user's ITSI	TETRA teleservices and bearer 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, restricted user's ITSI	TETRA teleservices and bearer services	Specified TETRA area

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

Table 2: Implementation options, notification

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

4.2.1.1 Category of calling user

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

1) the identifications of the restricted users to which authorization shall be given before their request for service can proceed;

2) the served user address where all requests for service shall be diverted for approval.