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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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**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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Contents

Intellectual Property Rights	5
Foreword.....	5
Introduction	6
1 Scope	7
2 References	7
3 Definitions and abbreviations.....	7
3.1 Definitions.....	7
3.2 Abbreviations	8
3.2.1 General abbreviations	8
3.2.2 Supplementary service abbreviations.....	8
4 Supplementary Service Call Authorized by Dispatcher (SS-CAD) stage 1 specification.....	9
4.1 Description	9
4.1.1 General description	9
4.1.2 Qualifications on applicability to telecommunication services.....	9
4.2 Procedures	9
4.2.1 Provision and withdrawal	9
4.2.1.1 Restricted basic service	10
4.2.1.2 Restricted destination address	10
4.2.1.3 Restricted source address	10
4.2.1.4 Restricted area.....	10
4.2.1.5 Verification and acceptance.....	11
4.2.2 Normal procedures.....	11
4.2.2.1 Activation, deactivation, definition, registration, interrogation, and cancellation.....	11
4.2.2.1.1 Activation and deactivation.....	11
4.2.2.1.2 Definition.....	11
4.2.2.1.3 Registration	11
4.2.2.1.4 Interrogation	11
4.2.2.2 Invocation and operation.....	11
4.2.2.2.1 Outgoing calls.....	11
4.2.2.2.2 Incoming calls	12
4.2.2.2.3 Restricted basic service	12
4.2.2.2.4 Restricted area	12
4.2.2.3 Cancellation	12
4.2.3 Exceptional procedures.....	12
4.2.3.1 Activation, deactivation, definition, registration, interrogation, and cancellation.....	12
4.2.3.1.1 Activation	12
4.2.3.1.2 Deactivation.....	13
4.2.3.1.3 Definition.....	13
4.2.3.1.4 Registration	13
4.2.3.1.5 Interrogation	13
4.2.3.2 Cancellation	13
4.2.3.3 Invocation and operation.....	14
4.3 Interactions with supplementary services.....	14
4.3.1 Calling Line Identification Presentation (SS-CLIP)	14
4.3.2 Connected Line identification Presentation (SS-COLP).....	14
4.3.3 Calling/Connected Line Identification Restriction (SS-CLIR).....	14
4.3.4 Call Report (SS-CR).....	14
4.3.5 Talking Party Identification (SS-TPI).....	14
4.3.6 Call Forwarding Unconditional (SS-CFU)	14
4.3.7 Call Forwarding on Busy (SS-CFB).....	14
4.3.8 Call Forwarding on No Reply (SS-CFNRY)	14
4.3.9 Call Forwarding on Not Reachable (SS-CFNRC)	14
4.3.10 List Search Call (SS-LSC)	14

4.3.11	Call Authorized by Dispatcher (SS-CAD).....	14
4.3.12	Short Number Addressing (SS-SNA)	15
4.3.13	Area Selection (SS-AS)	15
4.3.14	Access Priority (SS-AP)	15
4.3.15	Priority Call (SS-PC)	15
4.3.16	Call Waiting (SS-CW)	15
4.3.17	Call Hold (SS-HOLD)	15
4.3.18	Call Completion to Busy Subscriber (SS-CCBS)	15
4.3.19	Late Entry (SS-LE)	15
4.3.20	(Void).....	16
4.3.21	Pre-emptive Priority Call (SS-PPC).....	16
4.3.22	Include Call (SS-IC)	16
4.3.23	(Void).....	16
4.3.24	Barring of Outgoing Calls (SS-BOC).....	16
4.3.25	Barring of Incoming Calls (SS-BIC)	16
4.3.26	Discreet Listening (SS-DL)	16
4.3.27	Ambience Listening (SS-AL)	16
4.3.28	Dynamic Group Number Assignment (SS-DGNA).....	16
4.3.29	Call Completion on No Reply (SS-CCNR)	16
4.3.30	Call Retention (SS-CRT)	17
4.4	Interworking considerations	17
4.5	Overall SDL	17
Annex A (informative):	Change Requests.....	19
History		20

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[SIST EN 300 392-10-6 V1.4.1:2006](#)

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Terrestrial Trunked Radio (TETRA).

The present document is part 10, sub-part 6 of a multipart deliverable covering the 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" ([standards.iteh.ai](https://standards.iteh.ai/catalog/standards/sist/e7e3a8fe-d465-42bf-a952-7cf99af96f5/sist-en-300-392-10-6-v1-4-1-2006))

EN 300 392-5: "Peripheral Equipment Interface (PEI)";

EN 300 392-7: "Security" (<https://standards.iteh.ai/catalog/standards/sist/e7e3a8fe-d465-42bf-a952-7cf99af96f5/sist-en-300-392-10-6-v1-4-1-2006>)

EN 300 392-9: "General requirements for supplementary services";

EN 300 392-10: "Supplementary services stage 1";

EN 300 392-10-1: "Call Identification (CI)";

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)";

EN 300 392-10-6: "Call Authorized by Dispatcher (CAD)";

ETS 300 392-10-7: "Short number addressing";

EN 300 392-10-8: "Area Selection (AS)";

ETS 300 392-10-9: "Access priority";

EN 300 392-10-10: "Priority Call (PC)";

EN 300 392-10-11: "Call Waiting (CW)";

EN 300 392-10-12: "Call Hold (HOLD)";

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";
 EN 300 392-10-16: "Pre-emptive Priority Call (PPC)";
 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";
 TR 100 392-17: "TETRA V+D and DMO specifications";
 TS 100 392-18: "Air interface optimized applications".

SIST EN 300 392-10-6 V1.4.1:2006

NOTE: Part 10, sub-part 15 (Transfer of control), part 13 (SDL) and part 14 (PICS) of this multi-part deliverable are in status "historical" and are not maintained.

National transposition dates

Date of adoption of this EN:	28 July 2006
Date of latest announcement of this EN (doa):	31 October 2006
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 April 2007
Date of withdrawal of any conflicting National Standard (dow):	30 April 2007

Introduction

Supplementary services specifications are produced in three stages, according to the method described in ITU-T Recommendation I.210 [2]. The present document contains the stage 1 specification of SS-CAD. The stage 1 descriptions specify the supplementary services as seen by users of networks.

The Call Authorized by Dispatcher service is specific to TETRA.

1 Scope

The present document 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.

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 interworking considerations.

Charging principles are outside the scope of the present document.

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

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)".
<https://standards.iteh.ai/catalog/standards/sist/e7e3a8fe-d465-42bf-a952-750c301210>
- [2] ITU-T Recommendation I.1210: "Principles of telecommunication services supported by an ISDN and the means to describe them".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

authorized user: user who can make service definition

NOTE: The authorized user can also activate/deactivate and interrogate the service.

dispatcher: user to whom the request for authorization is directed

restricted user: user whose calls are forced to be authorized by a dispatcher before the call can proceed

NOTE: 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 the present document, the following general abbreviations apply:

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
V+D	Voice Plus Data

3.2.2 Supplementary service abbreviations

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

SS-AL	Ambience Listening
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-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

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4.2 Procedures

SIST EN 300 392-10-6 V1.4.1:2006

4.2.1 Provision and withdrawal

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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