



SLOVENSKI STANDARD
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Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 11: Supplementary services stage 2; Sub-part 2: Call Report (CR)

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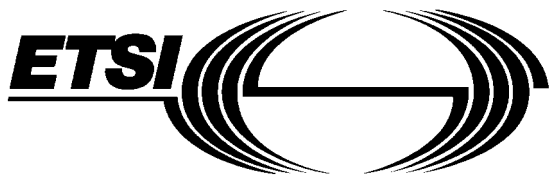
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**Terrestrial Trunked Radio (TETRA);
Voice plus Data (V+D);
Part 11: Supplementary services stage 2;
Sub-part 2: Call Report (CR)**

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Foreword

This European Telecommunication Standard (ETS) has been produced by the ETSI Project Terrestrial Trunked Radio (TETRA).

This ETS consists 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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1 Scope

This European Telecommunication Standard (ETS) specifies the stage 2 description of the Supplementary Service Call Report (SS-CR) for the Terrestrial Trunked RAdio (TETRA).

SS-CR is a supplementary service which allows the call originator of an individual call to leave his/her identity for the called party.

Man-Machine Interface and charging principles are outside the scope of this ETS.

Supplementary service specifications are produced in three stages according to the method defined in CCITT Recommendation I.130 [1]. The stage 2 description identifies the functional capabilities and the information flows needed to support the supplementary service as specified in its stage 1 description (see ETS 300 392-10-2 [3]). The stage 2 description is followed by the stage 3 description, which specifies the protocols at the air interface and at the various Inter-System Interfaces (ISI) to support the service.

This ETS is applicable to MS/LS and SwMIs involved in the operation of those supplementary services. Specifications of inter-working gateways to non-TETRA networks (mainly PSTN and ISDN) while affected by that ETS are outside the scope of this ETS.

Use of SDS-TL for call report is outside the scope of this ETS.

NOTE: The stage 2 description is followed by the stage 3 description, which specifies the encoding rules for the information flows and process behavior for the different entities in SwMI, MS and LS.

2 Normative references

This ETS incorporates by dated and 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.

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- [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): "CCITT Specification and description language (SDL)".
- [3] ETSI ETS 300 392-10-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 2: Call report".
- [4] ETSI ETS 300 392-12-02: "TETRA; Voice+Data; Part 12: Supplementary Services stage 3; Part 12-3: Call Report".
- [5] ETSI ETS 300 392-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".
- [6] ITU-T Recommendation I.221 (1993): "Common specific characteristics of services".

3 Definitions, symbols and abbreviations

3.1 Definitions

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

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

busy: property of a user for whom either a network determined user busy or a user determined user busy condition applies (see ITU-T Recommendation I.221 [6]).

identity presentation: stored/displayed identification provided to the called party for subsequent call back.

Mobile Station (MS): 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).

CC-SS retention timer: timer started by the infrastructure upon disconnection of the call, which allows the user to use the call Identification in order to invoke/activate/interrogate a supplementary service related to that call. After expiry of the timer, the user is no longer able to use the call Identification in order to carry out supplementary service procedures.

SS-CR message validity timer: timer controlled by the infrastructure but defined by the served user, which determines how long a message can be stored in the infrastructure. After expiry of the timer the message is deleted.

supplementary service: 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.

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

user A: specific user that originated the call and requested the supplementary service.

user B: user that was initially addressed in the original call set up.

user C: user who is the diverted-to user.

3.2 Symbols

There are no other symbols in this ETS besides those symbols used in SDL diagrams according to ITU-T Recommendation Z.100 [2].

3.3 Abbreviations

3.3.1 General abbreviations

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

CC	Call Completion
GTSI	Group TETRA Subscriber Identity
ISDN	Integrated Services Digital Network
ITSI	Individual TETRA Subscriber Identity
MS	Mobile Station
NDUB	Network Determined User Busy
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
UDUB	User Determined User Busy
V+D	Voice Plus Data

3.3.2 Supplementary service abbreviations

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

BIC	Barring of Incoming Calls
CFB	Call Forwarding on Busy
CFNRy	Call Forwarding on No Reply
CFNRc	Call Forwarding on Not Reachable
CFU	Call Forwarding Unconditional
CR	Call Report

4 SS-CR Stage 2 Specifications

4.1 Functional model

4.1.1 Functional model description

The functional model shall comprise the following functional entities (FEs) for Individual Calls:

- FE1 Originating SS-CR Served user FE;
 - FE21 Originating SS-CR Controlling FE;
 - FE25 Terminating SS-CR Controlling FE;
 - FE25' New Terminating SS-CR Controlling FE;
 - FE5 Terminating SS-CR Affected user FE.
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NOTE 1: FE25' exists only in case of call restoration.

NOTE 2: FE25' has the same functions as FE25; it acts as the Terminating SS-CR Controlling FE in the case where FE5 has migrated to another location.

The following functional relationships shall exist between these FEs for Individual Calls:

- ra between FE1 and FE21;
- rb between either between FE21 and FE25 or FE21 and FE25';
- rc between FE25 and FE5.

Figure 1 shows these FEs and relationships.

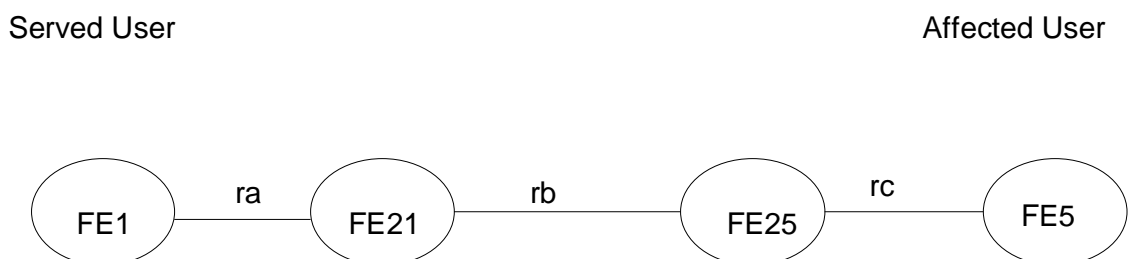


Figure 1: Functional model for SS-CR individual call