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Prizemni snopovni radio (TETRA) – Govor in podatki (V+D) – 12. del: Dopolnilne storitve stopnje 3 – 19. poglavje: Zapora dohodnih klicev (BIC)

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 12: Supplementary services stage 3; Sub-part 19: Barring of Incoming Calls (BIC)

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(TETRA)

Terrestrial Trunked Radio

(TETRA)

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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 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 10: "Supplementary Services (SS) Stage 1".

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

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

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

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Part 14: "PICS Proforma" standards/sist/22d82f68-b620-4c43-939f-

90160ba66d91/sist-en-300-392-12-19-v1-1-1-2003

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 3 specification of the Barring of Incoming Call (BIC) supplementary service for the Trans-European Trunked Radio (TETRA).

SS-BIC supplementary service enables barring restrictions for incoming services, e.g. calls, to be set. SS-BIC specifies the definition, interrogation and operation of the supplementary service. The Switching and Management Infrastructure (SwMI) applies the SS-BIC definitions when an incoming service is requested for the restricted user. The SS-BIC actions are defined for the SwMI, for the Mobile Station (MS) and for the Line Station (LS). The SS-BIC information flows may be delivered over the Inter System Interface (ISI).

SS-BIC is invoked for incoming services within one TETRA system or for services that extend over ISI to several TETRA systems.

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

Supplementary service stage 3 specification is preceded by the stage 1 and the stage 2 specifications of the service. Stage 1 describes the functional capabilities from the user's point of view. Stage 2 defines the functional behaviour in terms of functional entities and information flows. Stage 3 gives a precise description of the Supplementary Service from the implementational point of view. It defines the protocol for the service and the encoding rules for the information flows. It defines the processes for the functional entities and their behaviour. The described protocols and behaviour apply to the SwMI, for the MS and for the LS and may be applied over the ISI between TETRA systems.

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, 392-12-19 V1.1.1.2003

| [1] | https://standards.ist/22/68-b620-4c43-939f- ETS 300 392-2: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)". |
|-----|---|
| [2] | ETS 300 392-1: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Voice plus Data (V+D), Part 1: General Network Design". |
| [3] | ETS 300 392-10-1: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Voice plus Data (V+D); Part: 10: Supplementary services stage 1; Part 10-1: Call diversion". |
| [4] | ETS 300 392-10-6: "Radio Equipment and Systems (RES); Trans-European Trunked Radio (TETRA); Voice plus Data (V+D); Part: 10: Supplementary services stage 1; Part 10-6: Call authorised by dispatcher". |
| [5] | 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:

affected user: Functional Entity 1 (FE1), the user on whose behalf the incoming services are barred. The SS-BIC is defined either for affected user's individual subscriber identity or for a group identity of which the affected user is member.

authorised user: FE3, the user who is permitted to define SS-BIC on affected user's behalf.

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basic service: Circuit mode speech service or circuit mode data service, see ETS 300 392-2 [1] clause 11.

calling party: FE5, the party whose service request is barred due to SS-BIC.

Functional Entity (FE): An FE performs the SS-BIC specific tasks in the MS, in the LS or in the SwMI.

home system: The TETRA network which Mobile Network Identity (MNI) is equal to the user's MNI. The SS-BIC definition is saved in the home system and home system is responsible for transporting the SS-BIC definition to visited system(s).

Inter System Interface (ISI): The interface between two TETRA networks, that enables the inter-working of services between these two systems.

Mobile Network Identity (MNI): Mobile Country Code (MCC) and Mobile Network Code (MNC) of the TETRA Subscriber Identity (TSI).

Mobile Station (MS): A 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.

packet data service: Connection oriented packet mode data service and connectionless packet mode data service, see ETS 300 392-2 [1] clauses 24 and 26.

operation: The act of performing a service, e.g. in case of SS-BIC the barring of a call.

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. **Teh STANDARD PREVIEW**

visited system: The TETRA network which MNI is not equal to the user's MNI.

3.2 Abbreviations

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For the purposes of this ETS, the following abbreviations apply: $_{12-19-v1-1-1-2003}$

CC Call Control sub-entity for SS-BIC in CMCE in SwMI CCA Call Control sub-entity for SS-BIC in CMCE in MS/LS

CMCE Circuit Mode Control Entity

CONS Connection Oriented Network Service

FE Functional Entity
ISI Inter System Interface

LS Line Station

MCC
Mobile Country Code
MLE
Mobile Link Entity
MNC
Mobile Network Code
MS
Mobile Station
PDU
Protocol Data Unit
SAP
Service Access Point

SCLNS Specific ConnectionLess Network Service
SS Supplementary service sub-entity within CMCE
SS-BIC Supplementary Service Barring of Incoming Call

SSI Short Subscriber Identity

SwMI Switching and Management Infrastructure

TETRA Trans-European Trunked Radio TNCC-SAP Call Control service access point

TNCO-SAP Connection Oriented network service Service Access Point Specific ConnectionLess Network Service Service Access Point

TNSS-SAP Supplementary Service Service Access Point

TSI TETRA Subscriber Identity

4 SS-BIC stage 3 specification

4.1 Functional model description

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

FE1: SS sub-entity in Circuit Mode Control Entity (CMCE) for SS-BIC in affected user's MS/LS;

FE2: SS sub-entity in CMCE for SS-BIC in SwMI;

FE3: SS sub-entity in CMCE for SS-BIC in authorised user's MS/LS;

FE4: generic SS sub-entity in CMCE for SS-BIC in SwMI;

FE5: SS sub-entity in CMCE for SS-BIC in calling party's MS/LS;

CC: call control sub-entity for SS-BIC in CMCE in SwMI;

CCA: call control sub-entity for SS-BIC in CMCE in MS/LS.

NOTE: The SS-BIC functionality in CC/CCA is also applicable for packet data service, unless

otherwise mentioned.

The following relationships shall exist between these FEs:

- ra between FE1 and FE2;
- rb between FE2 and FE4 in different TETRA systems; PEVEW
- rc between FE2 and FE3; (standards.iteh.ai)
- rd between FE2 and FE2 in different TETRA systems;

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- re between FE1pand: FE4; ds. iteh.ai/catalog/standards/sist/22d82f68-b620-4c43-939f-90160ba66d91/sist-en-300-392-12-19-v1-1-1-2003
- rf between FE3 and FE4;
- rg between FE2 and FE5.

Figures 1 and 2 show these FEs and their relationships. Figure 1 gives the functional model for the management part and figure 2 gives the functional model for the operational part.

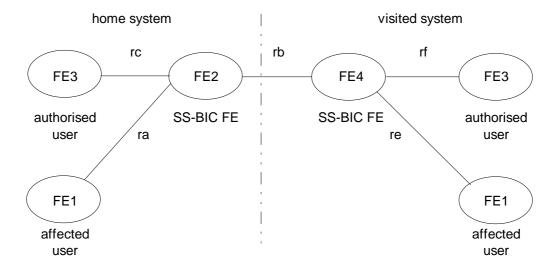
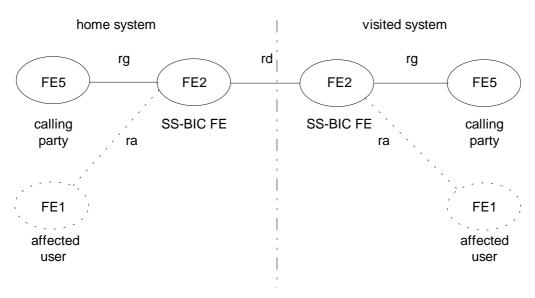


Figure 1: Functional model for the management part

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NOTE: FE1 does not receive any information of the barring.

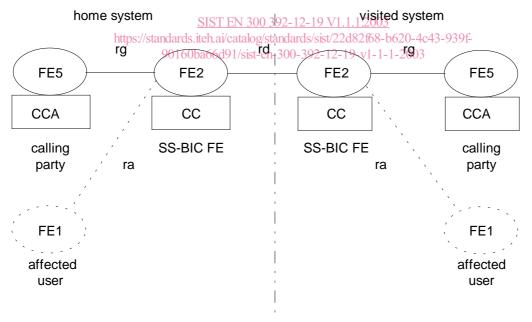
Figure 2: Functional model for the operational part

4.2 Relationship with a basic and packet data service

FE2 shall be collocated to CC in SwMI.

FE5 shall be collocated to CCA.Teh STANDARD PREVIEW

The relationship with basic and packet data service is shown in figure 3.



NOTE: FE1 does not receive any information of the barring.

Figure 3: Relationships with FEs and CCs/CCAs

5 SS-BIC service description

5.1 General

This clause describes SS-BIC services offered by Supplementary Service (SS) and call control subentities of CMCE, Connection Oriented Network Service (CONS) and Specific ConnectionLess Network Service (SCLNS) of the TETRA voice plus data layer 3 service boundary in the MS/LS.

NOTE: The layer 3 services and service boundary for the SwMI is outside the scope of this ETS.

The SS-BIC services shall be offered at:

- Supplementary Services Service Access Point (TNSS-SAP);
- Call Control Service Access Point (TNCC-SAP);
- Connection Oriented network service Service Access Point (TNCO-SAP);
- Specific ConnectionLess Network Service Service Access Point (TNSCLNS-SAP).

The SS-BIC services described in this clause shall complement the SS service, the call control service, CONS and SCLNS specified in ETS 300 392-2 [1], clauses 12, 11, 24 and 26 respectively.

5.2 Offered services

SS-BIC is an optional supplementary service for TETRA voice plus data layer 3. If SS-BIC is supported, this subclause shall specify the services and their availability.

The following SS-BIC services shall be provided: siteh ai

barring indication: barring indication for a basic service (call control service) or packet data service (CONS, SCLNS) that the user has requested. VIII 2003 https://standards.iteh.a/catalog/standards/sist/22d82f68-b620-4c43-939f-

The following SS-BIC services may be provided: $^{-392-12-19-v1-1-1-2003}$

- definition: a request to define SS-BIC into the SwMI;
- definition information: the reception of SS-BIC definition for information;
- interrogation: interrogation of SS-BIC definition.

5.3 TNSS-SAP

The SS-BIC definition, user definition and interrogation shall be provided at TNSS-SAP.

The SS-BIC service elements shall be carried as primitives within the following three general generic supplementary services primitives over TNSS-SAP:

- a) TNSS-SERVICE;
- b) TNSS-INFO;
- c) TNSS-ERROR.

Figure 4 illustrates the flow for generic SS primitives.

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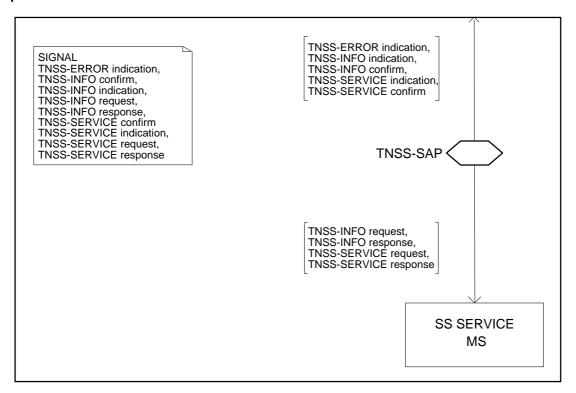


Figure 4: The flow for generic SS primitives

TNSS-SERVICE shall enable an invoking entity to request and to be informed about, an operation to be performed by the performing entity.

TNSS-INFO shall enable an entity to be informed of ongoing transactions.

TNSS-ERROR shall enable a performing <u>sentity to return the negative reply</u> of a unsuccessfully performed operation to the invoking entitys://standards.iteh.ai/catalog/standards/sist/22d82f68-b620-4c43-939f-

For a detailed description of the generic supplementary service primitives refer to ETS 300 392-2 [1], subclause 12.3.

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5.4 TNCC-SAP

The SS-BIC barring indication for call control service shall be provided at TNCC-SAP.

The SS-BIC service element shall be carried as an element within the TNCC-RELEASE indication primitive over TNCC-SAP. The barring shall be indicated in TNCC-RELEASE primitive as Disconnect cause parameter having the value Not allowed traffic case.

For a detailed description of the call control service primitives refer to ETS 300 392-2 [1], subclause 11.3.

5.5 TNSCLNS-SAP

The SS-BIC barring indication for SCLNS shall be provided at TNSCLNS-SAP.

The SS-BIC barring indication shall be carried within the TN-DELIVERY indication at TNSCLNS-SAP. The parameter Disposition Report shall be mapped from Disposition element within DELIVERY PDU to TN-DELIVERY indication, as defined in ETS 300 392-2 [1], clause 26.

5.6 TNCO-SAP

The SS-BIC barring indication for CONS shall be provided at TNCO-SAP.

The SS-BIC service elements shall be carried within the N-DISCONNECT indication primitives over TNCO-SAP. The barring shall be indicated by mapping the Clearing cause and Diagnostic code from CLEAR INDICATION packet to N-DISCONNECT indication, as defined in ETS 300 392-2 [1], clause 24.

5.7 SS-BIC services offered over the TNSS-SAP

5.7.1 **SS-BIC** primitives

The generic supplementary service primitives shall contain the following SS-BIC primitives.

- a) **DEFINE** request;
- b) DEFINE confirm;
- INFORM-USER indication; c)
- d) INFORM-USER response;
- INTERROGATE request; e)
- INTERROGATE confirm; f)
- CALL-BARRED indication. g)

The information contained in the following primitive description tables correspond to the following key:

Remark: comment:

conditional, NDARD PREVIEW optional, C:

O:

mandatory and ards.iteh.ai) M:

5.7.2 **DEFINE** request

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DEFINE request shall be offered from application to FE3 to define SS-BIC on affected user's behalf. The primitive shall contain the parameters listed in table 1-12-19-v1-1-1-2003

Parameter definitions:

- Subscriber identity defines the restricted identity. If there are several subscriber identities given in the primitive, the following definitions shall be requested to all the identities.
- Definition type indicates if the definition shall be an addition, replacement of removal of a previously made definition.

NOTE: It is possible that there is no previous SS-BIC definition.

- Services outside closed user group causes barring of service requests received from a party outside the given closed group. The closed user group definition is outside the scope of this ETS.
- Service causes barring of the given service.
- Address string causes barring of a service requested by a user whose identity is or starts with the given string.
- Exception to address string allows services requested by a user whose identity is or starts with the given string. The shall be used to enable exceptions to restricting Address string definitions and the overrides these definitions, when the Exception to address string is longer than a Address string element.
- Delivery to affected user(s) indicates that the SwMI shall send the definition to affected user for his information. If the definition is made to a group, the definition shall be sent to all group members for information, if sent.