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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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European Standard (Telecommunications series)

**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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Foreword

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

The present document had been submitted to Public Enquiry as ETS 300 392-12-19. During the processing for Vote it was converted into an EN.

The present document is part 12, sub-part 19 of a multi-part deliverable covering Voice plus Data (V+D), as identified below:

- 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 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";
- Part 15: "TETRA frequency bands, duplex spacings and channel numbering";
- Part 16: "Network Performance Metrics";
- Part 17: "TETRA V+D and DMO Release 1.1 specifications".

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1 Scope

The present document defines the stage 3 specification of the Barring of Incoming Call (BIC) supplementary service for the Terrestrial 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 the present document.

Signalling in packet data service is outside the scope of the present document.

According to ITU-T Recommendation I.130 [7], 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 protocol 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. Aspects relating to all supplementary services are detailed in EN 300 392-9 [5].

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2 References (standards.iteh.ai)

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

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- 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.

- [1] ETSI EN 300 392-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".
- [2] ETSI ETS 300 392-1: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 1: General network design".
- [3] ETSI ETS 300 392-10-1: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 1: Call identification".
- [4] ETSI ETS 300 392-10-6: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 6: Call Authorized by Dispatcher (CAD)".
- [5] ETSI EN 300 392-9: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 9: General requirements for supplementary services".
- [6] ITU-T Recommendation Z.100 (1993): "Specification and description language (SDL)".
- [7] ITU-T Recommendation I.130: "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [8] ETSI ETS 300 392-3-1: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 1: General design".

- [9] ETSI EN 300 392-3-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 2: Additional Network Feature Individual Call (ANF-ISIIC)".
- [10] ITU-T Recommendation X.219: "Remote Operations: Model, notation and service definition".
- [11] ITU-T Recommendation X.229: "Remote Operations: Protocol specification".
- [12] ITU-T Recommendation X.217: "Information technology - Open Systems Interconnection - Service definition for the Association Control Service Element".
- [13] ETSI ETS 300 392-10-19: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 10: Supplementary services stage 1; Sub-part 19: Barring of incoming calls".

3 Definitions, symbols and abbreviations

3.1 Definitions

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

affected user: user whose incoming service or services are barred

authorized user: user who is permitted to define SS-BIC on affected user's behalf

calling party: party whose outgoing service request is barred due to SS-BIC

NOTE: Also defined as affected user.

packet data service: packet mode data service, see EN 300 392-2, clause 28

restricted party: user whose outgoing service or services to the affected user are barred

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3.2 Symbols

For the purposes of the present document, the symbols used in SDL representations of procedures according to ITU-T Recommendation Z.100 [6] apply.

3.3 Abbreviations

3.3.1 General abbreviations

For the purposes of the present document, the following general abbreviations apply:

CC	Call Control sub-entity for SS-BIC in CMCE in SwMI
CMCE	Circuit Mode Control Entity
ISI	Inter System Interface
LS	Line Station
MCC	Mobile Country Code
MNC	Mobile Network Code
MS	Mobile Station
PDU	Protocol Data Unit
SAP	Service Access Point
SS	Supplementary Service
SS-BIC	Supplementary Service Barring of Incoming Call
SSI	Short Subscriber Identity
SwMI	Switching and Management Infrastructure
TETRA	Terrestrial Trunked Radio
TNCC-SAP	Call Control service access point

TNSS-SAP	Supplementary Service Service Access Point
TSI	TETRA Subscriber Identity

3.3.2 Supplementary service abbreviations

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

BIC	Barring of Incoming Calls
CAD	Call Authorized by Dispatcher
SNA	Short Number Addressing

4 SS-BIC service description

4.1 General

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).

This supplementary service is applicable to all basic circuit mode speech and data services defined in EN 300 392-2 [1] as well as to SDS mode services.

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4.2 SS-BIC services (standards.iteh.ai)

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

The following SS-BIC services shall be provided:

- barring indication: barring indication for a basic service (call control service).

NOTE 1: The barring indication for SDS service is outside the scope of the present document.

The following SS-BIC services may be provided:

- 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.

The SS-BIC service access point may be used in conformance testing as a normative (but potentially not accessible) boundary in MSs and LSs.

NOTE 2: As the present document only deals with the SS-BIC all the service primitives have been shown without a TNSS-BIC-prefix e.g. the TNSS-BIC SERVICE request is shorten into the SERVICE request.

NOTE 3: As man-machine interface or User A MS/LS applications are outside the scope of this standard service primitives are used to define information exchange to and from the standardized part of the MS/LS. Those primitives may be only indirectly accessible.

NOTE 4: The layer 3 services and service boundary for the SwMI are outside the scope of the present document.

The SS-BIC services described in this clause shall complement the call control service specified in EN 300 392-2 [1], clause 11.

4.3 Services at TNSS-SAP

4.3.1 General on services

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

The SS-BIC service primitives for the authorized user MS/LS at the TNSS-SAP may be:

- DEFINE request;
- DEFINE indication;
- DEFINE EXTERNAL request;
- DEFINE EXTERNAL indication;
- INTERROGATE request; and
- INTERROGATE indication.

The SS-BIC service primitives for the affected user MS/LS at the TNSS-SAP may be:

- DEFINE USER indication;
- DEFINE EXTERNAL USER indication;
- INTERROGATE request; and
- INTERROGATE indication.

The SS-BIC service primitives for the calling user MS/LS at the TNSS-SAP may be:

- CALL BARRED indication;
- NOTIFICATION indication.

NOTE: In the present document primitives request and indication are used instead of request and confirmation as there may not be a one to one correspondence between those primitives, e.g. there can be multiple indications due to a single request.

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

- Remark: comment;
- C: conditional;
- O: optional;
- M: mandatory.

4.3.2 CALL BARRED indication

CALL BARRED indication indicates to the calling user that the basic service invocation has been barred due to SS-BIC.

The CALL BARRED request primitive shall contain the SS-BIC parameters listed in table 1.

Table 1: Parameters for the primitive CALL BARRED indication

Parameter	Indication
Reject cause	M

NOTE: Also NOTIFICATION indication is available for informing the calling user, refer to EN 300 392-9 [5], clauses 5.2 and 7.2.2.

4.3.3 DEFINE request

The DEFINE request primitive shall be sent by the authorized user to the SS-BIC controlling entity over TNSS-SAP to define BIC supplementary service on affected user behalf. If there are several subscriber identities given in the primitive, the definition result shall be valid to all identities.

The DEFINE request primitive shall contain the SS-BIC parameters listed in table 2.

Table 2: Parameters for the primitive DEFINE request

Parameter	Request
Affected user identity	M, see note 1
Definition type	M
Services	M
Closed user groups	C, see note 2
Restricted identities	C, see note 2
Exceptions to restricted identities	M, see note 2
Delivery to affected user(s)	M
Acknowledgement requested	M
NOTE 1: Repeatable.	
NOTE 2: Parameter may be present only if the definition type is addition or replacement.	

4.3.4 DEFINE indication

The DEFINE indication primitive shall be sent to the authorized user by the SS-BIC controlling entity over TNSS-SAP to confirm the SS-BIC definition. If there are several subscriber identities given in the primitive, the definition results shall be valid to all identities. There may be multiple DEFINE indications due to a single DEFINE request.

The DEFINE indication primitive shall contain the SS-BIC parameters listed in table 3.

Table 3: Parameters for the primitive DEFINE indication

Parameter	Indication
Affected user identity	M
Definition result	M

4.3.5 DEFINE EXTERNAL request

The DEFINE EXTERNAL request primitive shall be sent by the authorized user to the SS-BIC controlling entity over TNSS-SAP to define BIC supplementary service on affected user behalf. If there are several external subscriber identities given in the primitive, the definition result shall be valid to all identities.

The DEFINE EXTERNAL request primitive shall contain the SS-BIC parameters listed in table 4.

Table 4: Parameters for the primitive DEFINE EXTERNAL request

Parameter	Request
Affected user identity	M, see note 1
Definition type	M
Services	M
Closed user groups	C, see note 2
Restricted identities	C, see note 2
Exceptions to restricted identities	M, see note 2
Delivery to affected user(s)	M
Acknowledgement requested	M
NOTE 1: Repeatable.	
NOTE 2: Parameter may be present only if the definition type is addition or replacement.	

4.3.6 DEFINE EXTERNAL indication

The DEFINE EXTERNAL indication primitive shall be sent to the authorized user by the SS-BIC controlling entity over TNSS-SAP to confirm the SS-BIC definition. If there are several subscriber identities given in the primitive, the definition results shall be valid to all identities. There may be multiple DEFINE EXTERNAL indications due to a single DEFINE EXTERNAL request.

The DEFINE EXTERNAL indication primitive shall contain the SS-BIC parameters listed in table 5.

Table 5: Parameters for the primitive DEFINE EXTERNAL indication

Parameter	Indication
Affected user identity	M
Definition result	M

4.3.7 DEFINE USER indication

The DEFINE USER indication primitive may be sent to the affected (called/barred) user by the SS-BIC controlling entity over TNSS-SAP to indicate SS-BIC definition made on affected user.

The DEFINE USER request primitive shall contain the SS-BIC parameters listed in table 6.

Table 6: Parameters for the primitive DEFINE USER indication

Parameter	Indication
Definition type	M
Services	M
Closed user groups	C, see note
Restricted identities	C, see note
Exceptions to restricted identities	C, see note
Acknowledgement requested	M
NOTE: Parameter may be present only if the definition type is addition or replacement.	

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4.3.8 DEFINE EXTERNAL USER indication

The DEFINE EXTERNAL USER indication may be sent to the affected (called/barred) user by the SS-BIC controlling entity over TNSS-SAP to indicate SS-BIC definition made on affected user. The DEFINE EXTERNAL USER ACK indication primitive shall contain the SS-BIC parameters listed in table 7.

Table 7: Parameters for the primitive DEFINE EXTERNAL USER indication

Parameter	Indication
Definition type	M
Services	M
Closed user groups	C, see note
Restricted external numbers	C, see note
Exceptions to restricted external numbers	C, see note
Acknowledgement requested	M
NOTE: Parameter may be present only if the definition type is addition or replacement.	