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Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 12: Supplementary services stage 3; Sub-part 16: Pre-emptive Priority Call (PPC)

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**Terrestrial Trunked Radio (TETRA);
Voice plus Data (V+D);
Part 12: Supplementary services stage 3;
Sub-part 16: Pre-emptive Priority Call (PPC)**

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Contents

Intellectual Property Rights	6
Foreword.....	6
1 Scope	8
2 References	8
3 Definitions and abbreviations.....	9
3.1 Definitions	9
3.2 Abbreviations	9
4 SS-PPC service primitives.....	10
4.1 General	10
4.2 SS-PPC services offered over the TNSS-SAP.....	10
4.2.1 DEFINE request.....	11
4.2.2 DEFINE confirm	12
4.2.3 ASSIGN indication.....	12
4.2.4 ASSIGN response.....	12
4.2.5 INTERROGATE request.....	12
4.2.6 INTERROGATE confirm.....	13
4.2.7 REMOVE indication.....	13
4.2.8 REMOVE response.....	14
4.2.9 WITHDRAW request.....	14
4.2.10 WITHDRAW confirm.....	14
4.2.11 IMPENDING-PRE-EMPTION indication.....	14
4.2.12 USER-PRE-EMPTED indication.....	15
4.3 SS-PPC services offered over the TNCC-SAP.....	15
4.3.1 PRIORITY1 request - SS-PPC invocation.....	15
4.3.2 PRIORITY2 confirm/indication - SS-PPC operation.....	15
4.3.3 PRE-EMPTION.....	16
4.4 Parameter descriptions	16
5 SS-PPC protocol description	18
5.1 General	18
5.2 SS-PPC protocol states	18
5.2.1 Protocol states of FE1	18
5.2.2 Protocol states of CCA to which FE1 is collocated	19
5.2.2.1 State IDLE.....	19
5.2.2.2 MO-CALL-SETUP	19
5.2.3 Protocol states of FE21	19
5.2.3.1 State IDLE.....	19
5.2.4 Protocol states of CC to which FE21 is collocated.....	20
5.2.4.1 State ANY-STATE	20
5.2.4.2 State PARTIES-PRE-EMPTED.....	20
5.2.4.3 State SETUP-STARTED	21
5.2.5 Protocol states of FE3	21
5.2.6 Protocol states of visited SwMI FE25.....	21
5.2.7 Protocol states of CC to which FE25 is collocated.....	22
5.2.7.1 State ANY-STATE	22
5.2.7.2 State PARTIES-PRE-EMPTED.....	22
5.2.7.3 State SETUP-STARTED	23
5.2.8 Protocol states of FE5	23
5.2.9 Protocol states of CCA to which FE5 is collocated	23
5.2.9.1 ANY STATE.....	23
5.2.9.2 MT-CALL-SETUP	23
5.2.10 Protocol states of FE8.....	24
5.2.11 Protocol states of CCA to which FE8 is collocated	24
5.3 SS-PPC signalling procedures.....	24

5.3.1	Procedures for FE1	24
5.3.2	Procedures for FE21	25
5.3.2.1	Definition in FE21	25
5.3.2.2	Distribution in FE21	25
5.3.2.3	Interrogation in FE21	25
5.3.3	Procedures for CC to which FE21 is collocated	26
5.3.3.1	Verify priority in CC to which FE21 is collocated.....	26
5.3.4	Procedures for FE3	26
5.3.4.1	Verification in FE3.....	26
5.3.5	Procedures for visited SwMI FE25.....	27
5.4	PDU descriptions.....	27
5.4.1	ASSIGN PDU.....	27
5.4.2	ASSIGN ACK PDU.....	28
5.4.3	DEFINE PDU	28
5.4.4	DEFINE ACK PDU.....	29
5.4.5	INTERROGATE PDU	29
5.4.6	INTERROGATE-ACK PDU.....	30
5.4.7	REMOVE PDU	30
5.4.8	REMOVE ACK PDU.....	30
5.4.9	WITHDRAW PDU.....	31
5.4.10	WITHDRAW ACK PDU	31
5.4.11	Pre-emption.....	31
5.4.11.1	D-RELEASE PDU	31
5.4.12	Priority 1 and Priority 2	31
5.4.12.1	D-CONNECT PDU.....	31
5.4.12.2	D-SETUP PDU	31
5.4.12.3	U-SETUP PDU.....	32
5.4.13	IMPENDING-PRE-EMPTION PDU	32
5.4.14	USER-PRE-EMPTED PDU	32
5.5	Information element coding	32
5.5.1	Basic service(s).....	32
5.5.2	Number of pre-empted parties.....	33
5.5.3	Number of SS-PPC definitions.....	33
5.5.4	PPC PDU type	34
5.5.5	Pre-empted party.....	34
5.5.6	Range type	35
5.5.7	Result for definition.....	35
5.5.8	Result for interrogation.....	36
5.5.9	Result for withdrawal.....	36
5.5.10	SS-PPC assignment	36
5.5.11	SS-PPC definition.....	37
5.5.12	SS-PPC priority, Call priority and Non group member SS-PPC priority	37
5.5.13	Subscriber extension present.....	37
5.5.14	Subscriber identity	38
5.5.15	Time to pre-emption	38
6	SS-PPC FE behaviour	38
6.1	Behaviour of FE1 (SS entity of user A)	39
6.1.1	Service interaction for FE1	39
6.1.2	Process description for FE1	40
6.2	Behaviour of CCA to which FE1 is collocated	41
6.2.1	Service interaction for CCA to which FE1 is collocated.....	41
6.2.2	Process description for CCA to which FE1 is collocated	42
6.3	Behaviour of FE21	43
6.3.1	Service interaction for FE21	43
6.3.2	Process description for FE21	44
6.4	Behaviour of CC to which FE21 is collocated	45
6.4.1	Service interaction for CC to which FE21 is collocated.....	45
6.4.2	Process description for CC to which FE21 is collocated	46
6.5	Behaviour of FE3 (SS entity of authorized user).....	49
6.5.1	Service interaction for FE3	49
6.5.2	Process description for FE3	50

6.6	Behaviour of visited SwMI FE25	51
6.6.1	Service interaction for FE25	51
6.6.2	Process description for visited SwMI FE25	52
6.7	Behaviour of CC to which FE25 is collocated	53
6.8	Behaviour of FE5	54
6.8.1	Service interaction for FE5	54
6.8.2	Process description for FE5	55
6.9	Behaviour of CCA to which FE5 is collocated	56
6.9.1	Service interaction for CCA to which FE5 is collocated	56
6.9.2	Process description for CCA collocated to FE5	57
6.10	Behaviour of FE8	59
6.10.1	Service interaction for FE8	59
6.10.2	Process description for FE8	60
6.11	Behaviour of CCA to which FE8 is collocated	61
6.11.1	Service interaction for CCA to which FE8 is collocated	61
6.11.2	Process description for CCA collocated to FE8	62
6.12	Inter-working considerations	62
Annex A (informative):	Mapping of SS-PPC priorities received from the user application to priorities in basic service PDUs (for the MS)	63
Annex B (informative):	Bibliography	64
Annex C (informative):	Change requests	65
History		66

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[SIST EN 300 392-12-16 V1.2.1:2006](https://standards.iteh.ai/catalog/standards/sist/180e0ede-dadb-4871-97ce-69ae47721ac4/sist-en-300-392-12-16-v1-2-1-2006)

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Foreword

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

The present document is part 12, sub-part 16 of a multi-part deliverable covering Voice plus Data 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"; |
| EN 300 392-5: | "Peripheral Equipment Interface (PEI)"; |
| EN 300 392-7: | "Security"; |
| EN 300 392-9: | "General requirements for supplementary services"; |
| EN 300 392-10: | "Supplementary services stage 1"; |
| EN 300 392-11: | "Supplementary services stage 2"; |
| EN 300 392-12: | "Supplementary services stage 3"; |
| EN 300 392-12-1: | "Call Identification (CI)"; |
| ETS 300 392-12-2: | "Call Report (CR)"; |
| EN 300 392-12-3: | "Talking Party Identification (TPI)"; |
| EN 300 392-12-4: | "Call Forwarding (CF)"; |
| ETS 300 392-12-5: | "List Search Call (LSC)"; |
| EN 300 392-12-6: | "Call Authorized by Dispatcher (CAD)"; |
| ETS 300 392-12-7: | "Short Number Addressing (SNA)"; |
| EN 300 392-12-8: | "Area Selection (AS)"; |
| ETS 300 392-12-9: | "Access Priority (AP)"; |
| EN 300 392-12-10: | "Priority Call (PC)"; |
| ETS 300 392-12-11: | "Call Waiting (CW)"; |
| EN 300 392-12-12: | "Call Hold (HOLD)"; |

- ETS 300 392-12-13: "Call Completion to Busy Subscriber (CCBS)";
- EN 300 392-12-14: "Late Entry (LE)";
- EN 300 392-12-16: "Pre-emptive Priority Call (PPC)";**
- EN 300 392-12-17: "Include Call (IC)";
- EN 300 392-12-18: "Barring of Outgoing Calls (BOC)";
- EN 300 392-12-19: "Barring of Incoming Calls (BIC)";
- ETS 300 392-12-20: "Discreet Listening (DL)";
- EN 300 392-12-21: "Ambience Listening (AL)";
- EN 300 392-12-22: "Dynamic Group Number Assignment (DGNA)";
- ETS 300 392-12-23: "Call Completion on No Reply (CCNR)";
- ETS 300 392-12-24: "Call Retention (CRT)";
- 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".
- 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.

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1 Scope

The present document defines the stage 3 specifications of the Supplementary Service Pre-emptive Priority Call (SS-PC) for the Terrestrial Trunked Radio (TETRA).

SS-PPC enables a user to have preferential access to the network resources in a TETRA system in times of congestion including pre-emption of calls. SS-PPC is applicable for pre-emptive priorities including the emergency priority. SS-PPC includes the capability to pre-empt resources needed for higher priority calls and the capability to pre-empt users from ongoing calls in order to move them to a higher priority calls. SS-PPC specifies the definition, activation, deactivation and interrogation for the usage of pre-emptive call priorities in the TETRA system. The Switching and Management Infrastructure (SwMI) applies the SS-PPC priorities when it allocates the resources for calls. The SS-PPC operations are defined for the SwMI and for the Mobile Station (MS).

SS-PPC is defined to subscribers of one TETRA system, but the subscribers may be located in several TETRA systems and the information flows may be delivered over the Inter System Interface (ISI). SS-PPC is invoked for calls within one TETRA system or for calls that extend over ISI to several TETRA systems.

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

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 (FEs) and information flows. Stage 3 gives a precise description of the supplementary service from the implementation point of view. It defines the protocol for the service and the encoding rules for the information flows. It defines the processes for the FEs and their behaviour. The described protocols and behaviour apply to the SwMI, for the MS and may be applied over the ISI between TETRA systems. Aspects relating to all supplementary services are detailed in EN 300 392-9 [3].

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2 References

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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.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

- [1] ETSI EN 300 392-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".
- [2] ETSI EN 300 392-1 (V1.2.1): "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 1: General network design".
- [3] ETSI EN 300 392-9: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 9: General requirements for supplementary services".
- [4] ETSI EN 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".
- [5] ITU-T Recommendation Z.100: "Specification and Description Language (SDL)".
- [6] ETSI EN 300 392-12-10: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 12: Supplementary services stage 3; Sub-part 10: Priority Call (PC)".

3 Definitions and abbreviations

3.1 Definitions

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

authorized user: user who is authorized to define, activate, deactivate and interrogate SS-PPC

CCA: Call Control sub-entity for Supplementary Service Pre-emptive Priority Call in Circuit Mode Control Entity in Mobile Station

emergency priority: highest pre-emptive priority level

Functional Entity (FE): functional characteristics of the SS sub-entity within an MS or a SwMI related to an SS-PPC action, e.g. definition or invocation

SS-PPC call: basic service (call) to which the defined SS-PPC priority is applied

SS-PPC invocation: sending of priority request to infrastructure

NOTE: The SS-PPC invocation is done with the basic service invocation request.

SS-PPC operation: usage of SS-PPC priority for and in a basic service set-up

SS-PPC pre-emption: exclusion of one or more parties from an ongoing basic service due an SS-PPC operation for another basic service

NOTE: The pre-emption may be done due to the lack of resources or due to the need to join a called party to a higher priority pre-emptive call.

SS-PPC priority: any pre-emptive priority invoked and operated for an SS-PPC call

user A: calling party, the party that invokes or generates invocation of SS-PPC

user B: called party in a call in which SS-PPC is operated

user C: pre-empted user, a user that is involved in a call, which is pre-empted due to lack of resources for a SS-PPC

NOTE: There may be one, two or more pre-empted users due to a pre-empted call.

user D: remaining user or users in a call from which a user or users have been pre-empted

visited SwMI: TETRA system of which the Mobile Network Identity (MNI) is not equal to the MNI of the user

3.2 Abbreviations

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

CC	Call Control sub-entity for SS-PPC in CMCE in SwMI
CMCE	Circuit Mode Control Entity
FE	Functional Entity
GTSI	Group TETRA Subscriber Identity
ISI	Inter System Interface
ITSI	Individual TETRA Subscriber Identity
MCC	Mobile Country Code
MNC	Mobile Network Code
MNI	Mobile Network Identity
MS	Mobile Station
PDU	Protocol Data Unit
SS	Supplementary Service sub-entity within CMCE
SSI	Short Subscriber Identity
SS-PPC	Supplementary Service Pre-emptive Priority Call

SwMI	Switching and Management Infrastructure
TETRA	TErrestrial Trunked RADio
TNCC-SAP	TETRA Network layer Call Control Service Access Point
TNSS-SAP	TETRA Network layer Supplementary Service Service Access Point
TSI	TETRA Subscriber Identity

4 SS-PPC service primitives

4.1 General

This clause describes the SS-PPC services offered by Supplementary Service (SS) and call control sub entities of CMCE of the TETRA voice plus data layer 3 service boundary in the MS. The SS-PPC services shall be offered at the Supplementary Services Service Access Point (TNSS-SAP) and the Call Control services Service Access Point (TNCC-SAP). The SS-PPC services described in this clause shall be applicable for the MS.

NOTE: The SS-PPC services within the SwMI are outside the scope of the present document.

The SS-PPC services specified in the present document shall complement the Supplementary services and Call control services specified in EN 300 392-2 [1] clauses 12 and 11 respectively and the Supplementary Services general design standard EN 300 392-9 [3]. The SS-PPC services shall act as sub-services within the general supplementary services and call control services.

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

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4.2 SS-PPC services offered over the TNSS-SAP

When the optional SS-PPC definition, user definition, activation, deactivation, interrogation, impending pre-emption indication and pre-empted party indication are supported, they shall be provided at TNSS-SAP.

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

The SS-PPC primitives for the user A (FE1) at the MS TNSS-SAP shall be:

- a) INTERROGATE request;
- b) INTERROGATE indication;
- c) ASSIGN indication;
- d) ASSIGN response.

The SS-PPC primitives for the authorized user (FE3) at the MS TNSS-SAP shall be:

- a) DEFINE request;
- b) DEFINE indication;
- c) INTERROGATE request;
- d) INTERROGATE indication.

The SS-PPC primitives for the pre-empted called user (FE5) at the MS TNSS-SAP shall be:

- a) IMPENDING-PRE-EMPTION indication.

The SS-PPC primitives for the pre-empted user (FE8) at the MS TNSS-SAP shall be:

- a) IMPENDING-PRE-EMPTION indication.

The SS-PPC primitives for the user (FE9) remaining in a call after pre-emption at the MS TNSS-SAP shall be:

- a) USER-PRE-EMPTED indication.

The activation and deactivation shall be done with the DEFINE request; the acknowledgement for activation and deactivation shall be done with DEFINE indication.

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

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

4.2.1 DEFINE request

Optional DEFINE request primitive may be offered from the user application to FE3 over TNSS-SAP. The primitive shall contain the SS-PPC information parameters listed in table 1.

The subscriber identity parameter(s) shall indicate the subscriber identities on which the following definition shall be made.

Table 1: DEFINE request contents

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Parameter	Request	Remark
Subscriber identity	M	Repeatable
Activated/deactivated	M	Note 1
Basic service	M	Repeatable
SS-PPC priority	M	Repeatable
Delivered to user A(s)	M	
Acknowledgement from user A(s)	C	Note 2
NOTE 1: Shall be used to indicate whether or not this PDU is used to activate a new PPC value or to deactivate an existing PPC value. When a PPC value is de-activated, a pre-programmed default value may then apply.		
NOTE 2: Conditional on the information element "Delivered to user A(s)".		

4.2.2 DEFINE confirm

If DEFINE request primitive is supported, then DEFINE confirm primitive shall be offered from FE3 to the user application over TNSS-SAP as an acknowledgement to a previously made definition request. The primitive shall contain the SS-PPC information parameters listed in table 2.

The Result for definition parameter shall indicate the result for all listed subscriber numbers and all basic service types.

NOTE 1: If the acknowledgements are different for different subscriber identities, FE3 may deliver several DEFINE confirm primitives to the user application.

NOTE 2: If the result for definition/activation/deactivation is "accepted, but some values changed by SwMI", the interrogation can be used to interrogate the values.

Table 2: DEFINE confirm contents

Parameter	Indication	Remark
Subscriber identity	M	Repeatable
Activated/deactivated	M	
Result for definition	M	

4.2.3 ASSIGN indication

Optional ASSIGN indication primitive may be offered from FE1 to the user application over TNSS-SAP. The primitive shall contain the SS-PPC information parameters listed in table 3.

FE1 shall only consider definitions made to a group number of which the subscriber is a member.

Table 3: ASSIGN indication contents

Parameter	Indication	Remark
Subscriber identity	M	
Activated/deactivated	M	
Basic service	M	Repeatable
SS-PPC priority	M	Repeatable
Acknowledgement from user A(s)	M	Note
NOTE: Parameter shall indicate if FE1 shall acknowledge the reception of the definition.		

4.2.4 ASSIGN response

If ASSIGN indication primitive is supported, then ASSIGN response primitive shall be offered from the user application to FE1 over TNSS-SAP as an acknowledgement to a previously received ASSIGN request, if acknowledgement was requested. The primitive shall contain the SS-PPC information parameters listed in table 4.

Table 4: ASSIGN response contents

Parameter	Response	Remark
Subscriber identity	M	
Activated/deactivated	M	
Basic service	M	
SS-PPC priority	M	
Result for definition	M	

4.2.5 INTERROGATE request

Optional INTERROGATE request primitive may be offered from the user application to FE1 or FE3 over TNSS-SAP and it shall be used to interrogate SS-PPC definitions. INTERROGATE request primitive shall contain the SS-PPC information parameters listed in table 5.

Table 5: INTERROGATE request contents

Parameter	Request	Remark
Subscriber identity	M	Repeatable

4.2.6 INTERROGATE confirm

If INTERROGATE request primitive is supported, then INTERROGATE confirm primitive shall be offered from FE1 or FE3 to the user application over TNSS-SAP as a response to a previously sent interrogation request. INTERROGATE confirm primitive shall contain the SS-PPC information parameters listed in table 6.

If the Subscriber identity parameter is repeated, the definition(s) shall be valid for all given numbers. The delivered to user A(s) and acknowledgement from user A(s) parameters shall indicate if these have been requested with the last successful definition request. The result for interrogation shall indicate, if the definition has been distributed to user A(s) and if user A(s) have acknowledged the distribution.

NOTE: If definitions/responses are different for different subscriber identity parameters FE3 may send several INTERROGATE confirm primitives to the user application.

Table 6: INTERROGATE confirm contents

Parameter	Indication	Remark
Subscriber identity	M	Repeatable
Result for interrogation	M	
Activated/deactivated	C	Note
Basic service	C	Repeatable
SS-PPC priority	C	Repeatable
Delivered to user A(s)	C	MS/LS-subscribers, note
Acknowledgement from user A(s)	C	Note
NOTE:	The parameter shall appear only if the "Result for interrogation" has the value "accepted", "accepted, but request to user A(s) pending in the SwMI" or "accepted, but user A(s) could not accept the request/user A(s) was not reached".	

4.2.7 REMOVE indication

Optional REMOVE indication primitive may be offered from FE1 to the user application over TNSS-SAP. This primitive shall be used to withdraw the SS-PPC service from a subscriber. The primitive shall contain the SS-PPC information parameters listed in table 7.

Table 7: REMOVE indication contents

Parameter	Indication	Remark
Subscriber identity	M	
Acknowledgement from user A(s)	M	Note
NOTE:	Parameter shall indicate if FE1 shall acknowledge the reception of the removal.	