



**SLOVENSKI STANDARD**  
**SIST EN 300 392-12-22 V1.2.1:2006**  
**01-april-2006**

---

Df]nYa b]gbcj b]fUX]c`fH9HF5ŁĚ; cj cf`]b`dcXUh\_]`fU Ž8ŁĚ`%&`XY. `8cdc`b]bY  
glcf]hj Yglcdb`Ÿ' `Ě&&`dcXXY. `8]bUa ] bc`XcXY`Ÿj Ub`Ÿ`g\_i d]bg\_]` ýh]j ]\_`fB; B5Ł

Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 12: Supplementary services stage 3; Sub-part 22: Dynamic Group Number Assignment (DGNA)

**iteh STANDARD PREVIEW**  
**(standards.iteh.ai)**

Ta slovenski standard je istoveten z: **EN 300 392-12-22 Version 1.2.1**

SIST EN 300 392-12-22 V1.2.1:2006  
<https://standards.iteh.ai/catalog/standards/sist/7161c505-7060-4366-b33c-f4f78da2479/sist-en-300-392-12-22-v1-2-1-2006>

**ICS:**

33.070.10	Prizemni snopovni radio (TETRA)	Terrestrial Trunked Radio (TETRA)
-----------	---------------------------------	-----------------------------------

**SIST EN 300 392-12-22 V1.2.1:2006**      **en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 300 392-12-22 V1.2.1:2006

<https://standards.iteh.ai/catalog/standards/sist/7161c305-7060-43bb-b33c-ff4f78da2479/sist-en-300-392-12-22-v1-2-1-2006>

# ETSI EN 300 392-12-22 V1.2.1 (2004-02)

---

*European Standard (Telecommunications series)*

**Terrestrial Trunked Radio (TETRA);  
Voice plus Data (V+D);  
Part 12: Supplementary services stage 3;  
Sub-part 22: Dynamic Group Number Assignment (DGNA)**

---

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 300 392-12-22 V1.2.1:2006](https://standards.iteh.ai/catalog/standards/sist/7161c305-7060-43bb-b33c-f4f78da2479/sist-en-300-392-12-22-v1-2-1-2006)

<https://standards.iteh.ai/catalog/standards/sist/7161c305-7060-43bb-b33c-f4f78da2479/sist-en-300-392-12-22-v1-2-1-2006>



## Reference

---

REN/TETRA-03101

## Keywords

---

data, radio, speech, stage 3, supplementary services, TETRA, V+D

**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

---

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN 300 392-12-22 V1.2.1:2006

<https://standards.iteh.ai/catalog/standards/sist/7161c305-7060-43bb-b33c-f24f78da2479/etsi-en-300-392-12-22-v1-2-1-2006>

**Important notice**

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, send your comment to:

[editor@etsi.org](mailto:editor@etsi.org)

---

**Copyright Notification**

No part may be reproduced except as authorized by written permission.  
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2004.  
All rights reserved.

**DECT™**, **PLUGTESTS™** and **UMTS™** are Trade Marks of ETSI registered for the benefit of its Members.  
**TIPHON™** and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members.  
**3GPP™** is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

# 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 Functional model.....	10
4.1 Functional entities .....	10
4.2 Mapping of functional entities to Circuit Mode Control Entities (CMCE) .....	10
4.3 Protocol structure and protocol stack .....	10
5 SS-DGNA service description.....	10
5.1 General .....	10
5.2 SS-DGNA services offered over the TNSS-SAP .....	11
5.3 SS-DGNA primitives .....	11
5.3.1 ASSIGN indication.....	12
5.3.2 ASSIGN response.....	12
5.3.3 DEASSIGN indication.....	12
5.3.4 DEASSIGN response.....	13
5.3.5 DEFINE indication .....	13
5.3.6 DEFINE request.....	14
5.3.7 DELETE indication .....	14
5.3.8 DELETE request.....	14
5.3.9 INTERROGATE GROUP request.....	15
5.3.10 INTERROGATE GROUP indication.....	15
5.3.11 INTERROGATE GROUP MEMBERS request.....	15
5.3.12 INTERROGATE GROUP MEMBERS indication.....	16
5.3.13 INTERROGATE MS GROUPS indication.....	16
5.3.14 INTERROGATE MS GROUPS response/confirm.....	16
5.3.15 INTERROGATE MS GROUPS request.....	17
5.3.16 MODIFY request.....	17
5.3.17 MODIFY indication.....	17
5.4 Primitive parameter descriptions.....	18
6 Signalling protocol for support of SS-DGNA .....	21
6.1 Operational requirements .....	21
6.1.1 Affected user MS .....	21
6.1.2 Group home SwMI .....	21
6.1.3 Home SwMI of the affected user .....	21
6.1.4 Affected user SwMI.....	21
6.1.5 Authorized user MS .....	22
6.1.6 Authorized user SwMI.....	22
6.2 PDU descriptions.....	22
6.2.1 General on PDU descriptions.....	22
6.2.2 ASSIGN.....	22
6.2.3 ASSIGN ACK .....	23
6.2.4 DEASSIGN.....	23
6.2.5 DEASSIGN ACK .....	24
6.2.6 DEFINE.....	25
6.2.7 DEFINE ACK.....	26
6.2.8 DELETE .....	27
6.2.9 DELETE ACK.....	27
6.2.10 INTERROGATE GROUP.....	28
6.2.11 INTERROGATE GROUP ACK.....	28

6.2.12	INTERROGATE GROUP MEMBERS.....	29
6.2.13	INTERROGATE GROUP MEMBERS ACK .....	29
6.2.14	INTERROGATE MS GROUPS .....	30
6.2.15	INTERROGATE MS GROUPS ACK.....	30
6.2.16	MODIFY .....	31
6.2.17	MODIFY ACK .....	32
6.2.18	General DGNA not supported .....	32
6.2.19	Requested SS-DGNA action not supported.....	32
6.3	Element coding.....	33
6.3.1	Acknowledgement complete.....	33
6.3.2	Acknowledgement requested from affected user(s).....	33
6.3.3	Additional group information .....	33
6.3.4	Affected user extension .....	33
6.3.5	Affected user identity.....	34
6.3.6	Affected user identity range type.....	34
6.3.7	Affected user SSI.....	34
6.3.8	Assigned user identity range type .....	34
6.3.9	Call identifier .....	34
6.3.10	Call related DGNA creation.....	35
6.3.11	Class of usage .....	35
6.3.12	Deassigned user identity range type.....	35
6.3.13	Group assignment .....	36
6.3.14	Group assignment ack.....	36
6.3.15	Group deassignment .....	37
6.3.16	Group deassignment ack.....	37
6.3.17	Group extension.....	37
6.3.18	Group extension present .....	37
6.3.19	Group identity attachment mode.....	38
6.3.20	Group information .....	38
6.3.21	Group SSI .....	38
6.3.22	Group status .....	39
6.3.23	Interrogation type for group.....	39
6.3.24	Interrogation type for group members.....	39
6.3.25	Interrogation type for MS groups.....	40
6.3.26	Length of additional group information element .....	40
6.3.27	Length of security related information element.....	40
6.3.28	Mnemonic group name .....	41
6.3.29	Number of affected user identities.....	41
6.3.30	Number of groups .....	41
6.3.31	Number of groups in deassign ack.....	41
6.3.32	Number of groups in deassign request.....	42
6.3.33	Result of assignment.....	42
6.3.34	Result of attachment .....	42
6.3.35	Result of deassignment .....	43
6.3.36	Result of definition .....	43
6.3.37	Result of deletion.....	44
6.3.38	Result of interrogation .....	44
6.3.39	Result of modification .....	45
6.3.40	Result of MS group interrogation .....	45
6.3.41	Security related information .....	46
6.3.42	Set reference .....	46
6.3.43	SS-DGNA PDU type .....	46
6.3.44	Visitor Group Short Subscriber Identity (V)GSSI .....	47
6.4	SS-DGNA protocol states .....	47
6.4.1	Protocol states of FE1 .....	47
6.4.2	Protocol states of FE2 .....	47
6.4.3	Protocol states of FE3 .....	47
6.4.4	Protocol states of FE2 in visited SwMI .....	47
6.5	SS-DGNA signalling procedures .....	47
6.5.1	PDU addressing .....	47
6.5.2	Signalling procedures of FE1 (affected user).....	47
6.5.2.1	Assignment.....	47

6.5.2.2	Deassignment .....	48
6.5.2.3	Interrogation of group parameters .....	49
6.5.2.4	Interrogation of MS groups by SwMI .....	49
6.5.3	Signalling procedures of FE2 (SwMI) .....	49
6.5.3.1	General on procedures for FE2 .....	49
6.5.3.2	Definition .....	50
6.5.3.3	Deletion .....	50
6.5.3.4	Modification .....	51
6.5.3.5	Assignment .....	51
6.5.3.6	Deassignment .....	52
6.5.3.7	Interrogation of group information .....	52
6.5.3.8	Interrogation of group members .....	52
6.5.3.9	Interrogation of MS groups from affected user .....	53
6.5.3.10	Interrogation of MS groups request from authorized user .....	53
6.5.4	Signalling procedures of FE3 .....	53
6.5.4.1	Definition .....	53
6.5.4.2	Modification .....	54
6.5.4.3	Deletion .....	54
6.5.4.4	Interrogation of group members .....	54
6.5.4.5	Interrogation of MS groups .....	55
6.5.4.6	Interrogation of group information .....	55
6.5.5	Signalling procedures of FE2 in a visited SwMI .....	55
6.6	Protocol timers .....	55
6.7	Inter-working considerations .....	55
6.7.1	Inter system interface .....	55
6.7.1.1	Basic requirements to ISI support .....	55
6.7.1.2	Assignment .....	56
6.7.1.3	Deassignment .....	56
6.7.1.4	Definition, deletion, modification .....	56
6.7.1.5	Interrogation .....	56
6.7.2	Gateways .....	57
<a href="http://standards.iteh.ai/catalog/standards/sist/7161e305-7060-43bb-b33e-f4f78da2479/sist-en-300-392-12-22-v1-2-1-2006">SIST EN 300 392-12-22 V1.2.1:2006</a>		
<b>Annex A (informative): Bibliography</b>	.....	<b>58</b>
<b>Annex B (informative): Change Requests</b>	.....	<b>59</b>
History .....	.....	60

---

## Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

---

## Foreword

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

The present document is part 12 sub-part 22 of a multi-part 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";
- 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)";
- ETS 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";
- TS 100 392-17: "TETRA V+D and DMO Release 1.1 specifications".

iTech STANDARD PREVIEW  
(standards.iteh.ai)

<b>National transposition dates</b>	
Date of adoption of this EN:	6 February 2004
Date of latest announcement of this EN (doa):	31 May 2004
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 November 2004
Date of withdrawal of any conflicting National Standard (dow):	30 November 2004

# 1 Scope

The present document defines the stage 3 specifications of the Supplementary Service Dynamic Group Number Assignment (SS-DGNA) for the Terrestrial Trunked Radio (TETRA).

The SS-DGNA enables a user to dynamically define group identities and group related parameters to the TETRA system and to the subscribers in the system. These definitions are used to enable group call invocations to dynamically defined groups. The SS-DGNA specification defines the creation, modification, deletion and interrogation of group definitions in the Switching and Management Infrastructure (SwMI), in the Mobile Station (MS).

The present document does not include the specification for access priority used for random access in uplink and call priority used by SwMI for resource allocation in a group call. Access priority and call priority can be specified and applied for groups using Supplementary Services Access Priority (SS-AP), Priority Call (SS-PC) and Pre-emptive Priority Call (SS-PPC). Thus, the definition procedure of these priorities is outside the scope of the present document.

Man-Machine Interface (MMI) and charging principles are also 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 and information flows. Stage 3 gives the precise description of the supplementary service from the implementation point of view. It defines the protocols 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 their behaviour apply for the SwMI and for the MS and can be applied over the Inter-System Interface (ISI) between TETRA systems.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

# 2 References

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

[SIST EN 300 392-12-22 V1.2.1:2006](https://standards.iteh.ai/catalog/standards/sist/7161c305-7060-43bb-b33c-1410ca24793e/sist-en-300-392-12-22-v1-2-1-2006)

<https://standards.iteh.ai/catalog/standards/sist/7161c305-7060-43bb-b33c-1410ca24793e/sist-en-300-392-12-22-v1-2-1-2006>

- 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] | ISO/IEC 8859-1: "Information technology - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1".   |
| [2] | ETSI ETS 300 392-11-22: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 11: Supplementary services stage 2; Sub-part 22: Dynamic Group Number Assignment (DGNA)". |
| [3] | ETSI EN 300 392-2: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 2: Air Interface (AI)".  |
| [4] | ETSI EN 300 392-1: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 1: General network design".  |
| [5] | ETSI EN 300 392-7: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 7: Security".  |
| [6] | ETSI EN 300 392-9: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 9: General requirements for supplementary services".   |

- [7] ETSI EN 300 392-3-5: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 5: Additional Network Feature for Mobility Management (ANF-ISIMM)".
- [8] ETSI EN 300 392-3-3: "Terrestrial Trunked Radio (TETRA); Voice plus Data (V+D); Part 3: Interworking at the Inter-System Interface (ISI); Sub-part 3: Additional Network Feature Group Call (ANF-ISIGC)".

## 3 Definitions and abbreviations

### 3.1 Definitions

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

**affected user:** identified MS user to whom the group is assigned (added to) or deassigned (removed from)

NOTE: Affected user can also interrogate group information based on group numbers. Also SwMI can interrogate group information from affected user

**authorized user:** user who is able to define, modify and delete a group and interrogate group information based on group numbers/affected user identities

**call related SS-DGNA:** creation of a group whose members (affected users) are based on the participants of a referenced call and possibly also based on given affected user identities

**call unrelated SS-DGNA:** creation of a group whose members (affected users) are solely based on given affected user identities

STANDARD PREVIEW  
(standards.iteh.ai)

### 3.2 Abbreviations

SIST EN 300 392-12-22 V1.2.1:2006

[https://standards.iteh.ai/catalog/standards/sist/7161c305-7060-43bb-b33c-](https://standards.iteh.ai/catalog/standards/sist/7161c305-7060-43bb-b33c-14178da2479/sist-en-300-392-12-22-v1-2-1-2006)

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

CC	Call Control
CMCE	Circuit Mode Control Entity
FE	Functional Entity
GSSI	Group Short Subscriber Identity
GTSI	Group TETRA Subscriber Identity
ISI	Inter System Interface
ITSI	Individual TETRA Subscriber Identity
PC	Protocol Control
SS	Supplementary Service
SSI	Short Subscriber Identity

NOTE: The abbreviation SS is only used when referring to a specific supplementary service.

SS-AP	Access Priority
SS-DGNA	Dynamic Group Number Assignment
SS-PC	Priority Call
SS-PPC	Pre-emptive Priority Call
SwMI	Switching and Management Infrastructure
(V)GSSI	Visitor's Group Short Subscriber Identity

---

## 4 Functional model

### 4.1 Functional entities

The functional model for SS-DGNA consists of Functional Entities FE1 to FE3 as defined in ETS 300 392-11-22 [2] clause 4.1. Refer to EN 300 392-9 [6] for Inter-System Interface model (ISI).

These functional entities can, for one action, be located in different TETRA SwMIs as defined in ETS 300 392-11-22 [2] clause 4.

### 4.2 Mapping of functional entities to Circuit Mode Control Entities (CMCE)

FEs, CCs and PCs correspond to sub-entities in the Circuit Mode Control Entity (CMCE) described in EN 300 392-2 [3] according to the following definitions:

- FE1: Supplementary Service (SS) sub-entity in CMCE in affected user's MS;
- FE2: SS sub-entity in CMCE in SwMI;
- FE3: SS sub-entity in CMCE in authorized user's MS;
- CC: Call Control (CC) sub-entity in CMCE in SwMI or in MS;
- PC: Protocol Control (PC) sub-entity in CMCE in MS.

### 4.3 Protocol structure and protocol stack

The MS protocol stack is defined in EN 300 392-2 [3].

SS-DGNA PDUs shall be routed as specified in EN 300 392-9 [6], at the air interface in U/D-FACILITY PDUs and using ANF-ISISS for conveying SS-DGNA PDUs over the ISI.

---

## 5 SS-DGNA service description

### 5.1 General

Clauses 5.2 to 5.4 describe SS-DGNA specific services offered by the CMCE at the supplementary services service access point (TNSS-SAP) to application, or vice versa, of the TETRA Voice plus Data (V+D) layer 3 service boundary.

NOTE: As the present document only deals with the SS-DGNA all the service primitives has been shown without a TNSS-DGNA-prefix e.g. the TNSS-DGNA-DEFINE request is shorten into a DEFINE request.

Refer EN 300 392-9 [6] for general information on supplementary services.

In this protocol model the application is considered to manage group information in the MS. The management mechanisms and a detailed information exchange between MS protocol layers are outside the scope of the present document.

## 5.2 SS-DGNA services offered over the TNSS-SAP

The services offered to users of SS-DGNA are defined as service primitives containing service parameters. The service primitives are defined in clause 5.3 and the parameter in the service primitives are defined in clause 5.4.

In addition to the defined service primitives a SwMI/MS may response by a supplementary service not supported or an action not supported primitives as appropriate, refer EN 300 392-9 [6] and clauses 6.2.18 and 6.2.19.

NOTE: As the man-machine interface or user application are outside the scope of the present document service primitives are used to define information exchange to and from the standardized part of the MS. Those primitives may be only indirectly accessible.

## 5.3 SS-DGNA primitives

The SS-DGNA service primitives at the Affected user MS (FE1) TNSS-SAP are:

- a) ASSIGN indication;
- b) ASSING response;
- c) DEASSIGN indication;
- d) DEASSING response;
- e) INTERROGATE GROUP request;
- f) INTERROGATE GROUP indication;
- g) INTERROGATE MS GROUPS indication;
- h) INTERROGATE MS GROUPS response.

The SS-DGNA service primitives at the authorized user MS (FE3) TNSS-SAP are:

- a) DEFINE request;
- b) DEFINE indication;
- c) DELETE request;
- d) DELETE indication;
- e) INTERROGATE GROUP request;
- f) INTERROGATE GROUP indication;
- g) INTERROGATE GROUP MEMBERS request;
- h) INTERROGATE GROUP MEMBERS indication;
- i) MODIFY request;
- j) MODIFY indication;
- k) INTERROGATE MS GROUPS request;
- l) INTERROGATE MS GROUPS confirm.

The service primitives such as MODIFY request and MODIFY indication are related to each other by the group identity, if available. There can be more than one indication primitive related to a single request primitive.

### 5.3.1 ASSIGN indication

ASSIGN indication primitive shall be offered from FE1 to application over TNSS-SAP in order to assign group identities and/or parameters related to the group to the database in the affected user's MS. The primitive shall contain the SS-DGNA parameters listed in table 1.

**Table 1: ASSIGN indication contents**

Parameter	Indication	Remark
Group identity/identities	M	
Acknowledgement requested	M	
Group identity attachment mode	O	
Class of usage	O	
Mnemonic group name	O	
Security related information	O	
Additional group information	O	

### 5.3.2 ASSIGN response

ASSIGN response primitive shall be offered from application to FE1 over TNSS-SAP. The primitive shall be used to acknowledge one or more group assignments made to affected user. The primitive shall contain the SS-DGNA parameters listed in table 2. The primitive shall be used only, if the acknowledgement was requested in an ASSIGN request.

The acknowledgement shall be valid for all given group identities in ASSIGN response and the application shall send independent responses for each result of assignment value.

**Table 2: ASSIGN response contents**

Parameter	Response	Remark
Group identity/identities	SIST EN 300 392-12-22 V1.2.1:2006	
Result of assignment	See note 43bb-b33c-	
Result of attachment	See note 43bb-b33c-	
NOTE:	The result may be different to each assigned group identity.	

### 5.3.3 DEASSIGN indication

DEASSIGN indication primitive shall be offered from FE1 to application over TNSS-SAP. The primitive shall be used to remove group assignments from the affected user. The primitive shall contain the SS-DGNA parameters listed in table 3.

**Table 3: DEASSIGN indication contents**

Parameter	Indication	Remark
Group identity/identities	O	See note
Acknowledgement requested	O	
NOTE:	All group identities of the MS are indicated by having no specific group identity in the indication primitive.	

### 5.3.4 DEASSIGN response

DEASSIGN response primitive shall be offered from application to FE1 over TNSS-SAP. The primitive shall contain the SS-DGNA parameters listed in table 4. The primitive shall be used to acknowledge requested group deassignments and it is used only, if the acknowledgement was requested in the DEASSIGN request.

The Acknowledgement parameter shall be valid for all deassigned group identities given in DEASSIGN response and the application shall send independent responses for each result of deassignment value.

**Table 4: DEASSIGN response contents**

Parameter	Response	Remark
Group identity/identities	O	See note 1
Result of deassignment	M	See note 2
NOTE 1: If MS deassigned all groups as a response to a "deassign all" then no group number will be present.		
NOTE 2: The result may be different for each group identity.		

### 5.3.5 DEFINE indication

DEFINE indication primitive shall be offered from FE3 to application over TNSS-SAP. The primitive shall be used to acknowledge a previously requested group definition. The primitive shall contain the SS-DGNA parameters listed in table 5.

The DEFINE indication shall refer to the corresponding DEFINE request in a call related definition by the call identifier. In the case of a call un-related definition the relationship is determined by the group identity, if used in the DEFINE request. If there were no group identity in the DEFINE request, then the relationship is based on the sequence of events, and the user should not request another definition without a group identity before receiving at least one DEFINE indication to the previous request.

**Table 5: DEFINE indication contents**

Parameter	Indication	Remark
Call related or call unrelated	M	
Call identifier	O	see note
Group identity	M	
Acknowledgement complete	M	
Result of definition	M	
Affected user identity/identities	O	
NOTE: Shall be present in case of call related DGNA definition.		