3GPP TSG CN Plenary Meeting #21 **NP-030379**
17th – 19th September 2003 Frankfurt, GERMANY.

Source: TSG CN WG4

Title: Corrections on ASCI

Agenda item: 7.12

Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
03.03	A059	1	N4-031044	R96	Correction to definition of Group-ID, Group call area ID and Group Call Reference	F	5.4.1
03.03	A060	1	N4-031045	R97	Correction to definition of Group-ID, Group call area ID and Group Call Reference	A	6.7.0
03.03	A061	1	N4-031046	R98	Correction to definition of Group-ID, Group call area ID and Group Call Reference	A	7.7.0
23.003	070		N4-030883	R99	Correction to definition of Group-ID, Group call area ID and Group Call Reference	A	3.12.0
23.003	071		N4-030884	Rel-4	Correction to definition of Group-ID, Group call area ID and Group Call Reference	A	4.6.0
23.003	072		N4-030885	Rel-5	Correction to definition of Group-ID, Group call area ID and Group Call Reference	A	5.6.0
09.02	A337	1	N4-031047	R96	Correction of encoding description of Group-Id	F	5.18.0
09.02	A338	1	N4-031048	R97	Correction of encoding description of Group-Id	A	6.13.0
09.02	A339	1	N4-031049	R98	Correction of encoding description of Group-Id	A	7.13.0
29.002	662	1	N4-031050	R99	Correction of encoding description of Group-Id	A	3.17.0
29.002	663	1	N4-031051	Rel-4	Correction of encoding description of Group-Id	A	4.12.0
29.002	664	1	N4-031052	Rel-5	Correction of encoding description of Group-Id	A	5.6.2
29.002	665	1	N4-031053	Rel-6	Correction of encoding description of Group-Id	A	6.2.0

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, France, 25th to 29th August 2003

Tdoc ⌘N4-031044

CR-Form-v7

CHANGE REQUEST

⌘ **03.03** **CR** **A059** ⌘ **rev** **1** ⌘ Current version: **5.4.1** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☒

Title:	⌘	Correction to definition of Group-ID, Group call area ID and Group Call Reference
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	24/03/2003
Category:	⌘	**F**
Release:	⌘	R96

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	In CN1 #13, CR 003 against 43.068 was approved to update the definition of the Group ID, Group Call Area ID and Group Call Reference. This change was not mirrored back in to previous releases. However, the approval of this change has resulted in inconsistency across the specification for R99 and prior and R4 onwards. 03.68 for R99 and before refers to each of the parameters as being 'binary' where as R4 onwards refers to these as 'decimal'. The reality is that the parameters are binary encoded on the radio, A and Abis interfaces and are stored on the MS as BCD encoded and also are communicated on the MAP interface as BCD encoded. Within 03.03/23.003 the current definition of the Croup Identification parameters mirror the incorrect definition that is included in R99 and earlier version of 03.68 and 03.69. Therefore, these definitions are corrected and references to the correct definitions are introduced. If the changes are not made there will be inconsistency in the definitions across specifications and across different versions of the same spec. **Therefore this is an essential correction.**
Summary of change:	⌘	Group Identifications are corrected to reflect the definitions in other specs.
Consequences if not approved:	⌘	Different definitions of the same parameter in different specs leads to different implementations and inability to establish ASCI calls.

Clauses affected:	⌘	1.1, 7				
Other specs	⌘	**Y** ☒	**N** ☐	Other core specifications	⌘	09.02 CRA337

affected:	X	Test specifications
	X	O&M Specifications
Other comments: ⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.
- For this Release 1996 document, references to GSM documents are for Release 1996 versions (version 5.x.y).

[1] GSM 01.04 (ETR 350): "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".

[2] GSM 03.08: "Digital cellular telecommunications system (Phase 2+); Organization of subscriber data".

[3] GSM 03.20 (ETS 300 929): "Digital cellular telecommunications system (Phase 2+); Security related network functions".

[4] GSM 03.70: "Digital cellular telecommunications system (Phase 2+); Routeing of calls to/from Public Data Networks (PDN)".

[5] GSM 04.08 (ETS 300 940): "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".

[6] GSM 09.03: "Digital cellular telecommunications system (Phase 2+); Signalling requirements on interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN)".

[7] GSM 11.11 (ETS 300 977): "Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".

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[10] CCITT Recommendation E.213: "Telephone and ISDN numbering plan for land MSs in public land mobile networks (PLMN)".

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[yy] GSM 04.69 (ETS 100 949): "Broadcast Call Control (BCC) Protocol ".

[x] GSM 09.02: "Mobile Application Part (MAP) specification".

****** *Next Changed Section* ******

7 Identification of Voice Group Call and Voice Broadcast Call Entities

7.1 Group Identities

Logical groups of subscribers to the Voice Group Call Service or to the Voice Broadcast Service are known by a Group Identity (Group ID). Group IDs for VGCS are unique within a PLMN. Likewise, Group IDs for VBS are unique within a PLMN. However, no uniqueness is required between the sets of Group IDs. These sets may be intersecting or even identical, at the option of the network operator.

The Group ID ~~shall be~~is a ~~binary~~ number with a maximum value depending on the composition of the voice group call reference or voice broadcast call reference defined in section 7.3.

For definition of Group ID on the radio interface, A interface and Abis interface, see GSM 04.68 [xx] and GSM 04.69 [yy].

For definition of Group ID coding on MAP protocol interfaces, see GSM~~3GPP TS~~ 09.02 [x].

VGCS or VBS shall also be provided in case of roaming. If this applies, certain Group IDs shall be defined as supra-PLMN Group IDs which have to be co-ordinated between the network operators and which shall be known in the networks and in the SIM.

The formats of the Group ID is identical for VBS and VGCS.

7.2 Group Call Area Identification

Groupings of cells into specific group call areas occurs in support of both the Voice Group Call Service and the Voice Broadcast Service. These service areas are known by a "Group Call Area Identity" (Group Call Area Id). No restrictions are placed on what cells may be grouped into a given group call area.

The Group Call Area ID ~~shall be~~is a ~~binary~~ number uniquely assigned to a group call area in one network and with a maximum value depending on the composition of the voice group call reference or voice broadcast reference defined under 7.3.

The formats of the Group Call Area ID for VGCS and the Group Call Area ID for VBS are identical.

7.3 Voice Group Call and Voice Broadcast Call References

Specific instances of voice group calls (VGCS) and voice broadcast calls (VBS) within a given group call area are known by a "Voice Group Call Reference" or by a "Voice Broadcast Call Reference" respectively.

Each voice group call or voice broadcast call in one network is uniquely identified by its Voice Group Call Reference or Voice Broadcast Call Reference. The Voice Group Call Reference or Voice Broadcast Call Reference is composed of the Ggroup ID and the Ggroup Ccall Aarea ID. ~~In the case where the routing of dispatcher originated calls is performed without the HLR (see GSM 03.68 for VGCS and GSM 03.69 for VBS), the Voice Group Call Reference or Voice Broadcast Call Reference shall have a maximum length of 4 octets.~~ The composition of the group call area ID and the group ID can be specific for each network operator.

For definition of Group Call Reference (with leading zeros inserted as necessary) on the radio interface, A interface and Abis interface, see GSM 04.08 [7], GSM 04.68 [xx] and GSM 04.69 [yy].

For definition of Group Call Reference (also known as ASCI Call Reference, Voice Group Call Reference or Voice Broadcast Call Reference) coding on MAP protocol interfaces, see GSM~~3GPP TS~~ 09.~~0~~02 [x].

The format is given in figure 10.

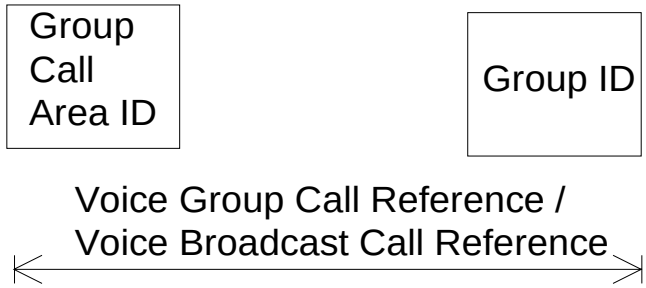

Figure 10: Voice Group Call Reference / Voice Broadcast Call Reference

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, France, 25th to 29th August 2003

Tdoc ⌘N4-031045

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CHANGE REQUEST

⌘ **03.03** **CR** **A060** ⌘ **rev** **1** ⌘ Current version: **6.7.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☒

Title:	⌘	Correction to definition of Group-ID, Group call area ID and Group Call Reference
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	24/03/2003
Category:	⌘	**A**
Release:	⌘	R97

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
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Use one of the following releases:

2	*(GSM Phase 2)*
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Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

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Consequences if not approved:	⌘	Different definitions of the same parameter in different specs leads to different implementations and interworking problems.

Clauses affected:	⌘	1.1, 7				
Other specs	⌘	Y: X / N:	Other core specifications	⌘	29.002 CRA338	

affected:	X	Test specifications
	X	O&M Specifications
Other comments: ⌘		

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[13] RFC 1883: "Internet Protocol, Version 6 (IPv6) Specification".

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****** *Next Changed Section* ******

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The format is given in figure 12.

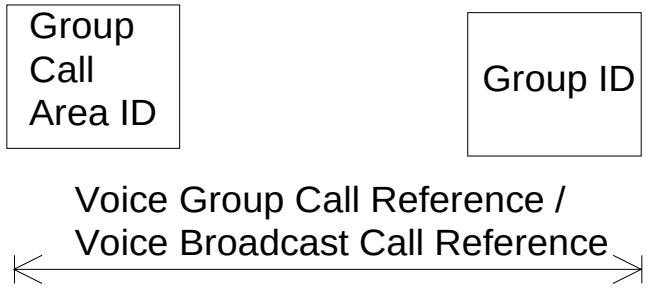

Figure 12: Voice Group Call Reference / Voice Broadcast Call Reference

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, France, 25th to 29th August 2003

Tdoc ⌘N4-031046

CR-Form-v7

CHANGE REQUEST

⌘ **03.03** **CR** **A061** ⌘ **rev** **1** ⌘ Current version: **7.7.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☒

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Source:	⌘	CN4
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Date:	⌘	24/03/2003
Category:	⌘	**A**
Release:	⌘	R98

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[yy] GSM 04.69 (ETS 100 949): "Broadcast Call Control (BCC) Protocol ".

[x] ~~3GPP TS~~ GSM 09.02: "Mobile Application Part (MAP) specification".

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Specific instances of voice group calls (VGCS) and voice broadcast calls (VBS) within a given group call area are known by a "Voice Group Call Reference" or by a "Voice Broadcast Call Reference" respectively.

Each voice group call or voice broadcast call in one network is uniquely identified by its Voice Group Call Reference or Voice Broadcast Call Reference. The Voice Group Call Reference or Voice Broadcast Call Reference is composed of the Ggroup ID and the Ggroup Ccall Aarea ID. ~~In the case where the routing of dispatcher originated calls is performed without the HLR (see GSM 03.68 for VGCS and GSM 03.69 for VBS), the Voice Group Call Reference or Voice Broadcast Call Reference shall have a maximum length of 4 octets.~~ The composition of the group call area ID and the group ID can be specific for each network operator.

For definition of Group Call Reference (with leading zeros inserted as necessary) on the radio interface, A interface and Abis interface, see GSM 04.08 [7], GSM 04.68 [xx] and GSM 04.69 [yy].

For definition of Group Call Reference (also known as ASCI Call Reference, Voice Group Call Reference or Voice Broadcast Call Reference) coding on MAP protocol interfaces, see ~~3GPP TS~~ GSM 0~~2~~9.0~~0~~2 [x].

The format is given in figure 12.

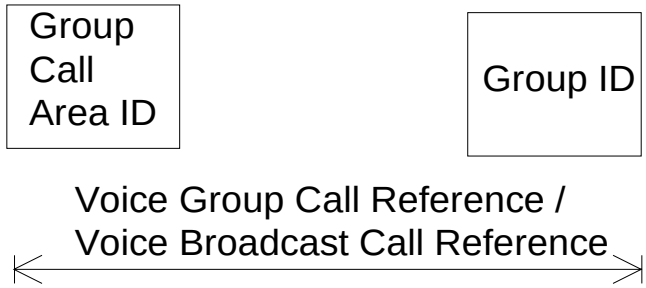

Figure 12: Voice Group Call Reference / Voice Broadcast Call Reference

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, FRANCE, 25th – 29th August 2003

Tdoc ⌘N4-031047

CR-Form-v7

CHANGE REQUEST

⌘ **09.02** **CR** **A337** ⌘ **rev** **1** ⌘ Current version: **5.18.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of encoding description of Group-Id
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	07/07/03
Category:	⌘	**F**
Release:	⌘	R96

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	Group-Id as used in Voice Group Call Service (VGCS) and Voice Broadcast Service (VBS) is defined currently in ASN.1 as being 'Octet String'. In fact, in 03.68/43.068 and 03.69/43.069 this parameter is defined as being TBCD. As a result of this misalignment, and the potential for confusion between these two definitions, **this is an essential correction**.
Summary of change:	⌘	Encoding of Group-Id is changed from Octet String to TBCD
Consequences if not approved:	⌘	Different definitions of the same parameter in different specs leads to different implementations and inability to establish ASCI calls.

Clauses affected:	⌘	14.7.1

Other specs affected:	⌘	Y	N		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

14.7.1 Mobile Service data types

****** *Text Removed for clarity* ******

```
GroupId  ::= TBCDOCTET-STRING (SIZE (3))
    -- When Group-Id is less than six characters in length, the TBCD filler (1111)
    -- is used to fill unused half octets.
    -- Refers to the Group Identification as specified in GSM TS 03.03
    -- and 03.68/ 03.69
```

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, FRANCE, 25th – 29th August 2003

Tdoc ⌘N4-031048

CR-Form-v7

CHANGE REQUEST

⌘ **09.02** **CR** **A338** ⌘**rev** **1** ⌘ Current version: **6.13.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of encoding description of Group-Id
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	07/07/03
Category:	⌘	**A**
Release:	⌘	R97

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	Group-Id as used in Voice Group Call Service (VGCS) and Voice Broadcast Service (VBS) is defined currently in ASN.1 as being 'Octet String'. In fact, in 03.68/43.068 and 03.69/43.069 this parameter is defined as being TBCD. As a result of this misalignment, and the potential for confusion between these two definitions, this is an essential correction.
Summary of change:	⌘	Encoding of Group-Id is changed from Octet String to TBCD
Consequences if not approved:	⌘	Misalignment between 09.02/29.002 and service description may result in interoperability problems

Clauses affected:	⌘	17.7.1			
Other specs affected:	⌘	**Y**	**N**		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

17.7.1 Mobile Service data types

****** *Text Removed for clarity* ******

```
GroupId  ::= TBCDOCTET--STRING (SIZE (3))
     -- When Group-Id is less than six characters in length, the TBCD filler (1111)
     -- is used to fill unused half octets.
     -- Refers to the Group Identification as specified in GSM TS 03.03
     -- and 03.68/ 03.69
```

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, FRANCE, 25th – 29th August 2003

Tdoc ⌘N4-031049

CR-Form-v7

CHANGE REQUEST

⌘ **09.02** **CR** **A339** ⌘**rev** **1** ⌘ Current version: **7.13.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of encoding description of Group-Id
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	07/07/03
Category:	⌘	**A**
Release:	⌘	R98

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	Group-Id as used in Voice Group Call Service (VGCS) and Voice Broadcast Service (VBS) is defined currently in ASN.1 as being 'Octet String'. In fact, in 03.68/43.068 and 03.69/43.069 this parameter is defined as being TBCD. As a result of this misalignment, and the potential for confusion between these two definitions, this is an essential correction.
Summary of change:	⌘	Encoding of Group-Id is changed from Octet String to TBCD
Consequences if not approved:	⌘	Misalignment between 09.02/29.002 and service description may result in interoperability problems

Clauses affected:	⌘	17.7.1			
Other specs affected:	⌘	**Y**	**N**		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

17.7.1 Mobile Service data types

****** *Text Removed for clarity* ******

```
GroupId  ::= TBCDOCTET--STRING (SIZE (3))
     -- When Group-Id is less than six characters in length, the TBCD filler (1111)
     -- is used to fill unused half octets.
     -- Refers to the Group Identification as specified in GSM TS 03.03
     -- and 03.68/ 03.69
```

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, France, 25th to 29th August 2003

Tdoc ⌘N4-030883

CR-Form-v7

CHANGE REQUEST

⌘ **23.003** **CR** **070** ⌘ **rev** **-** ⌘ Current version: **3.12.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☒

Title:	⌘	Correction to definition of Group-ID, Group call area ID and Group Call Reference
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	24/03/2003
Category:	⌘	**A**
Release:	⌘	R99

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 *(GSM Phase 2)*
R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*

Reason for change:	⌘	In CN1 #13, CR 003 against 43.068 was approved to update the definition of the Group ID, Group Call Area ID and Group Call Reference. This change was not mirrored back in to previous releases. However, the approval of this change has resulted in inconsistency across the specification for R99 and prior and R4 onwards. 03.68 for R99 and before refers to each of the parameters as being 'binary' where as R4 onwards refers to these as 'decimal'. The reality is that the parameters are binary encoded on the radio, A and Abis interfaces and are stored on the MS as BCD encoded and also are communicated on the MAP interface as BCD encoded. Within 03.03/23.003 the current definition of the Croup Identification parameters mirror the incorrect definition that is included in R99 and earlier version of 03.68 and 03.69. Therefore, these definitions are corrected and references to the correct definitions are introduced. If the changes are not made there will be inconsistency in the definitions across specifications and across different versions of the same spec. Therefore this is an essential correction.
Summary of change:	⌘	Group Identifications are corrected to reflect the definitions in other specs.
Consequences if not approved:	⌘	Different definitions of the same parameter in different specs leads to different implementations and interworking problems.

Clauses affected:	⌘	1.1, 7				
Other specs	⌘	Y: X / N:	Other core specifications	⌘	29.002 CR661	

affected:	X	Test specifications
	X	O&M Specifications
Other comments: ⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

1.1 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*

[1] 3GPP TS 21.905: "3G Vocabulary".

[2] 3GPP TS 23.008: "Organization of subscriber data".

[3] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".

[4] 3GPP TS 23.070: "Routeing of calls to/from Public Data Networks (PDN)".

[5] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".

[6] 3GPP TS 29.060: "GPRS Tunnelling protocol (GPT) across the Gn and Gp interface".

[7] GSM 03.20: "Digital cellular telecommunications system (Phase 2+); Security related network functions".

[8] GSM 09.03: "Digital cellular telecommunications system (Phase 2+); Signalling requirements on interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN)".

[9] GSM 11.11: "Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".

[10] ITU-T Recommendation E.164: "Numbering plan for the ISDN era".

[11] ITU-T Recommendation E.212: "Identification plan for land MSs".

[12] ITU-T Recommendation E.213: "Telephone and ISDN numbering plan for land MSs in public land mobile networks (PLMN)".

[13] ITU-T Recommendation X.121: "International numbering plan for public data networks".

[14] RFC 791: "Internet Protocol".

[15] RFC 2373: "IP Version 6 Addressing Architecture".

[16] 3GPP TS 25.401: "UTRAN Overall Description".

[17] 3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling".

[18] RFC 2462: “IPv6 Stateless Address Autoconfiguration”.

[19] RFC 3041: “Privacy Extensions for Stateless Address Autoconfiguration in IPv6”.

[xx] GSM 04.68 (ETS 100 948): "Group Call Control (GCC) protocol".

[yy] GSM 04.69 (ETS 100 949): "Broadcast Call Control (BCC) Protocol ".

[x] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".

****** *Next Changed Section* ******

7 Identification of Voice Group Call and Voice Broadcast Call Entities

7.1 Group Identities

Logical groups of subscribers to the Voice Group Call Service or to the Voice Broadcast Service are known by a Group Identity (Group ID). Group IDs for VGCS are unique within a PLMN. Likewise, Group IDs for VBS are unique within a PLMN. However, no uniqueness is required between the sets of Group IDs. These sets may be intersecting or even identical, at the option of the network operator.

The Group ID ~~shall be~~is a ~~binary~~ number with a maximum value depending on the composition of the voice group call reference or voice broadcast call reference defined in section 7.3.

For definition of Group ID on the radio interface, A interface and Abis interface, see GSM 04.68 [xx] and GSM 04.69 [yy].

For definition of Group ID coding on MAP protocol interfaces, see 3GPP TS 29.002 [x].

VGCS or VBS shall also be provided in case of roaming. If this applies, certain Group IDs shall be defined as supra-PLMN Group IDs which have to be co-ordinated between the network operators and which shall be known in the networks and in the SIM.

The formats of the Group ID is identical for VBS and VGCS.

7.2 Group Call Area Identification

Groupings of cells into specific group call areas occurs in support of both the Voice Group Call Service and the Voice Broadcast Service. These service areas are known by a "Group Call Area Identity" (Group Call Area Id). No restrictions are placed on what cells may be grouped into a given group call area.

The Group Call Area ID ~~shall be~~is a ~~binary~~ number uniquely assigned to a group call area in one network and with a maximum value depending on the composition of the voice group call reference or voice broadcast reference defined under 7.3.

The formats of the Group Call Area ID for VGCS and the Group Call Area ID for VBS are identical.

7.3 Voice Group Call and Voice Broadcast Call References

Specific instances of voice group calls (VGCS) and voice broadcast calls (VBS) within a given group call area are known by a "Voice Group Call Reference" or by a "Voice Broadcast Call Reference" respectively.

Each voice group call or voice broadcast call in one network is uniquely identified by its Voice Group Call Reference or Voice Broadcast Call Reference. The Voice Group Call Reference or Voice Broadcast Call Reference is composed of the Ggroup ID and the Ggroup Ccall Aarea ID. ~~In the case where the routing of dispatcher originated calls is performed without the HLR (see GSM 03.68 for VGCS and GSM 03.69 for VBS), the Voice Group Call Reference or Voice Broadcast Call Reference shall have a maximum length of 4 octets.~~ The composition of the group call area ID and the group ID can be specific for each network operator.

For definition of Group Call Reference (with leading zeros inserted as necessary) on the radio interface, A interface and Abis interface, see 3GPP TS 24.008 [5], GSM 04.68 [xx] and GSM 04.69 [yy].

For definition of Group Call Reference (also known as ASCI Call Reference, Voice Group Call Reference or Voice Broadcast Call Reference) coding on MAP protocol interfaces, see 3GPP TS 29.002 [x].

The format is given in figure 12.

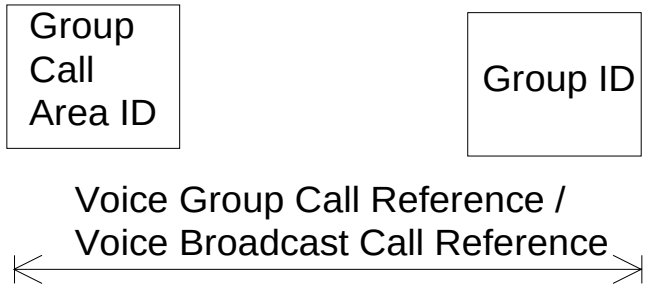

Figure 12: Voice Group Call Reference / Voice Broadcast Call Reference

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, France, 25th to 29th August 2003

Tdoc ⌘N4-030884

CR-Form-v7

CHANGE REQUEST

⌘ **23.003** **CR** **071** ⌘ **rev** **-** ⌘ Current version: **4.6.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☒

Title:	⌘	Correction to definition of Group-ID, Group call area ID and Group Call Reference
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	24/03/2003
Category:	⌘	**A**
Release:	⌘	Rel-4

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	In CN1 #13, CR 003 against 43.068 was approved to update the definition of the Group ID, Group Call Area ID and Group Call Reference. This change was not mirrored back in to previous releases. However, the approval of this change has resulted in inconsistency across the specification for R99 and prior and R4 onwards. 03.68 for R99 and before refers to each of the parameters as being 'binary' where as R4 onwards refers to these as 'decimal'. The reality is that the parameters are binary encoded on the radio, A and Abis interfaces and are stored on the MS as BCD encoded and also are communicated on the MAP interface as BCD encoded. Within 03.03/23.003 the current definition of the Croup Identification parameters mirror the incorrect definition that is included in R99 and earlier version of 03.68 and 03.69. Therefore, these definitions are corrected and references to the correct definitions are introduced. If the changes are not made there will be inconsistency in the definitions across specifications and across different versions of the same spec. Therefore this is an essential correction.
Summary of change:	⌘	Group Identifications are corrected to reflect the definitions in other specs.
Consequences if not approved:	⌘	Different definitions of the same parameter in different specs leads to different implementations and interworking problems.

Clauses affected:	⌘	1.1, 7				
Other specs	⌘	Y: X / N:	Other core specifications	⌘	29.002 CR662	

affected:	X	Test specifications
	X	O&M Specifications
Other comments: ⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

1.1 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*

[1] 3GPP TS 21.905: "3G Vocabulary".

[2] 3GPP TS 23.008: "Organization of subscriber data".

[3] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2"

[4] 3GPP TS 23.070: "Routeing of calls to/from Public Data Networks (PDN)".

[5] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".

[6] 3GPP TS 29.060: "GPRS Tunnelling protocol (GPT) across the Gn and Gp interface".

[7] 3GPP TS 43.020: "Security related network functions".

[8] GSM 09.03: "Digital cellular telecommunications system (Phase 2+); Signalling requirements on interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN)".

[9] GSM 11.11: "Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".

[10] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".

[11] ITU-T Recommendation E.212: "The international identification plan for mobile terminals and mobile users".

[12] ITU-T Recommendation E.213: "Telephone and ISDN numbering plan for land Mobile Stations in public land mobile networks (PLMN)".

[13] ITU-T Recommendation X.121: "International numbering plan for public data networks".

[14] RFC 791: "Internet Protocol".

[15] RFC .2373: "IP Version 6 Addressing Architecture".

[16] 3GPP TS 25.401: "UTRAN Overall Description".

[17] 3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling".

[18] RFC 2181: “Clarifications to the DNS Specification”.

[19] RFC 1035: “Domain Names - Implementation and Specification”.

[20] RFC 1123: “Requirements for Internet Hosts -- Application and Support”.

[21] RFC 2462: “IPv6 Stateless Address Autoconfiguration”.

[22] RFC 3041: “Privacy Extensions for Stateless Address Autoconfiguration in IPv6”.

[xx] 3GPP TS 44.068: "Group Call Control (GCC) protocol".

[yy] 3GPP TS 44.069: "Broadcast Call Control (BCC) Protocol ".

[x] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".

****** *Next Changed Section* ******

7 Identification of Voice Group Call and Voice Broadcast Call Entities

7.1 Group Identities

Logical groups of subscribers to the Voice Group Call Service or to the Voice Broadcast Service are known by a Group Identity (Group ID). Group IDs for VGCS are unique within a PLMN. Likewise, Group IDs for VBS are unique within a PLMN. However, no uniqueness is required between the sets of Group IDs. These sets may be intersecting or even identical, at the option of the network operator.

The Group ID ~~shall be~~is a ~~binary~~ number with a maximum value depending on the composition of the voice group call reference or voice broadcast call reference defined in section 7.3.

For definition of Group ID on the radio interface, A interface and Abis interface, see 3GPP TS 44.068 [xx] and 3GPP TS 44.069 [yy].

For definition of Group ID coding on MAP protocol interfaces, see 3GPP TS 29.002 [x].

VGCS or VBS shall also be provided in case of roaming. If this applies, certain Group IDs shall be defined as supra-PLMN Group IDs which have to be co-ordinated between the network operators and which shall be known in the networks and in the SIM.

The formats of the Group ID is identical for VBS and VGCS.

7.2 Group Call Area Identification

Groupings of cells into specific group call areas occurs in support of both the Voice Group Call Service and the Voice Broadcast Service. These service areas are known by a "Group Call Area Identity" (Group Call Area Id). No restrictions are placed on what cells may be grouped into a given group call area.

The Group Call Area ID ~~shall be~~is a ~~binary~~ number uniquely assigned to a group call area in one network and with a maximum value depending on the composition of the voice group call reference or voice broadcast reference defined under 7.3.

The formats of the Group Call Area ID for VGCS and the Group Call Area ID for VBS are identical.

7.3 Voice Group Call and Voice Broadcast Call References

Specific instances of voice group calls (VGCS) and voice broadcast calls (VBS) within a given group call area are known by a "Voice Group Call Reference" or by a "Voice Broadcast Call Reference" respectively.

Each voice group call or voice broadcast call in one network is uniquely identified by its Voice Group Call Reference or Voice Broadcast Call Reference. The Voice Group Call Reference or Voice Broadcast Call Reference is composed of the Ggroup ID and the Ggroup Ccall Aarea ID. ~~In the case where the routing of dispatcher originated calls is performed without the HLR (see GSM 03.68 for VGCS and GSM 03.69 for VBS), the Voice Group Call Reference or Voice Broadcast Call Reference shall have a maximum length of 4 octets.~~ The composition of the group call area ID and the group ID can be specific for each network operator.

For definition of Group Call Reference (with leading zeros inserted as necessary) on the radio interface, A interface and Abis interface, see 3GPP TS 24.008 [5], 3GPP TS 44.068 [xx] and 3GPP TS 44.069 [yy].

For definition of Group Call Reference (also known as ASCI Call Reference, Voice Group Call Reference or Voice Broadcast Call Reference) coding on MAP protocol interfaces, see 3GPP TS 29.002 [x].

The format is given in figure 12.

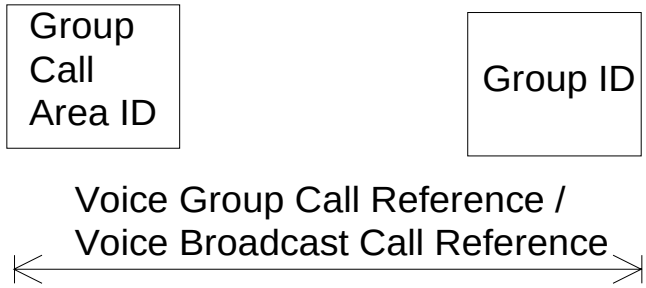

Figure 12: Voice Group Call Reference / Voice Broadcast Call Reference

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, France, 25th to 29th August 2003

Tdoc ⌘N4-030885

CR-Form-v7

CHANGE REQUEST

⌘ **23.003** **CR** **072** ⌘ **rev** **-** ⌘ Current version: **5.6.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☒ Core Network ☒

Title:	⌘	Correction to definition of Group-ID, Group call area ID and Group Call Reference
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	24/03/2003
Category:	⌘	**A**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	In CN1 #13, CR 003 against 43.068 was approved to update the definition of the Group ID, Group Call Area ID and Group Call Reference. This change was not mirrored back in to previous releases. However, the approval of this change has resulted in inconsistency across the specification for R99 and prior and R4 onwards. 03.68 for R99 and before refers to each of the parameters as being 'binary' where as R4 onwards refers to these as 'decimal'. The reality is that the parameters are binary encoded on the radio, A and Abis interfaces and are stored on the MS as BCD encoded and also are communicated on the MAP interface as BCD encoded. Within 03.03/23.003 the current definition of the Croup Identification parameters mirror the incorrect definition that is included in R99 and earlier version of 03.68 and 03.69. Therefore, these definitions are corrected and references to the correct definitions are introduced. If the changes are not made there will be inconsistency in the definitions across specifications and across different versions of the same spec. Therefore this is an essential correction.
Summary of change:	⌘	Group Identifications are corrected to reflect the definitions in other specs.
Consequences if not approved:	⌘	Different definitions of the same parameter in different specs leads to different implementations and interworking problems.

Clauses affected:	⌘	1.1, 7				
Other specs	⌘	Y: ☒ N: ☐	Other core specifications	⌘	29.002 CR663	

affected:	X	Test specifications
	X	O&M Specifications
Other comments: ⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

1.1 References

1.1.1 Normative references

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*

[1] 3GPP TS 21.905: "3G Vocabulary".

[2] 3GPP TS 23.008: "Organization of subscriber data".

[3] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2"

[4] 3GPP TS 23.070: "Routeing of calls to/from Public Data Networks (PDN)".

[5] 3GPP TS 24.008: "Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3".

[6] 3GPP TS 29.060: "GPRS Tunnelling protocol (GPT) across the Gn and Gp interface".

[7] 3GPP TS 43.020: "Digital cellular telecommunications system (Phase 2+); Security related network functions".

[8] void

[9] 3GPP TS 51.011: " Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface".

[10] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".

[11] ITU-T Recommendation E.212: "The international identification plan for mobile terminals and mobile users".

[12] ITU-T Recommendation E.213: "Telephone and ISDN numbering plan for land Mobile Stations in public land mobile networks (PLMN)".

[13] ITU-T Recommendation X.121: "International numbering plan for public data networks".

[14] RFC 791: "Internet Protocol".

[15] RFC 2373: "IP Version 6 Addressing Architecture".

[16] 3GPP TS 25.401: "UTRAN Overall Description".

[17] 3GPP TS 25.413: "UTRAN Iu Interface RANAP Signalling".

[18] RFC 2181: "Clarifications to the DNS Specification".

[19] RFC 1035: "Domain Names - Implementation and Specification".

[20] RFC 1123: "Requirements for Internet Hosts -- Application and Support".

[21] RFC 2462: "IPv6 Stateless Address Autoconfiguration".

[22] RFC 3041: "Privacy Extensions for Stateless Address Autoconfiguration in IPv6".

[23] 3GPP TS 23.236: "Intra Domain Connection of RAN Nodes to Multiple CN Nodes".

[24] 3GPP TS 23.228: "IP Multimedia (IM) Subsystem – Stage 2"

[25] RFC 2486: "The Network Access Identifier"

[26] RFC 3261: "SIP: Session Initiation Protocol"

[27] 3GPP TS 31.102: "Characteristics of the USIM Application."

[28] void

[29] 3GPP TS 44.118: "Radio Resource Control (RRC) Protocol, Iu Mode".

[30] 3GPP TS 23.073: "Support of Localised Service Area (SoLSA); Stage 2"

[31] 3GPP TS 29.002: "Mobile Application Part (MAP) specification"

[32] 3GPP TS 22.016: "International Mobile Equipment Identities (IMEI)"

[33] ~~3GPP TS 43.068: "Voice Group Call Service (VGCS); Stage 2"~~void

[34] ~~3GPP TS 43.069: "Voice Broadcast service (VBS); Stage 2"~~void

[35] 3GPP TS 45.056: "CTS-FP Radio Sub-system"

[36] 3GPP TS 42.009: "Security aspects" [currently not being raised to rel-5 – Pete H. looking into it]

[37] 3GPP TS 25.423: "UTRAN Iur interface RNSAP signalling"

[38] 3GPP TS 25.419: "UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)"

[39] 3GPP TS 25.410: "UTRAN Iu Interface: General Aspects and Principles"

[40] ISO/IEC 7812: "Identification cards - Numbering system and registration procedure for issuer identifiers"

[41] 3GPP TS 31.102 "Characteristics of the USIM Application"

[42] 3GPP TS 33.102 "3G security; Security architecture"

[43] 3GPP TS 43.130: "Iur-g interface; Stage 2"

[45] RFC 2806: "URLs for Telephone Calls"

[xx] 3GPP TS 44.068: "Group Call Control (GCC) protocol".

[yy] 3GPP TS 44.069: "Broadcast Call Control (BCC) Protocol ".

****** *Next Changed Section* ******

7 Identification of Voice Group Call and Voice Broadcast Call Entities

7.1 Group Identities

Logical groups of subscribers to the Voice Group Call Service or to the Voice Broadcast Service are known by a Group Identity (Group ID). Group IDs for VGCS are unique within a PLMN. Likewise, Group IDs for VBS are unique within a PLMN. However, no uniqueness is required between the sets of Group IDs. These sets may be intersecting or even identical, at the option of the network operator.

The Group ID ~~shall be~~is a ~~binary~~ number with a maximum value depending on the composition of the voice group call reference or voice broadcast call reference defined in section 7.3.

For definition of Group ID on the radio interface, A interface and Abis interface, see 3GPP TS 44.068 [xx] and 3GPP TS 44.069 [yy].

For definition of Group ID coding on MAP protocol interfaces, see 3GPP TS 29.002 [31].

VGCS or VBS shall also be provided in case of roaming. If this applies, certain Group IDs shall be defined as supra-PLMN Group IDs which have to be co-ordinated between the network operators and which shall be known in the networks and in the SIM.

The formats of the Group ID is identical for VBS and VGCS.

7.2 Group Call Area Identification

Groupings of cells into specific group call areas occurs in support of both the Voice Group Call Service and the Voice Broadcast Service. These service areas are known by a "Group Call Area Identity" (Group Call Area Id). No restrictions are placed on what cells may be grouped into a given group call area.

The Group Call Area ID ~~shall be~~is a ~~binary~~ number uniquely assigned to a group call area in one network and with a maximum value depending on the composition of the voice group call reference or voice broadcast reference defined under 7.3.

The formats of the Group Call Area ID for VGCS and the Group Call Area ID for VBS are identical.

7.3 Voice Group Call and Voice Broadcast Call References

Specific instances of voice group calls (VGCS) and voice broadcast calls (VBS) within a given group call area are known by a "Voice Group Call Reference" or by a "Voice Broadcast Call Reference" respectively.

Each voice group call or voice broadcast call in one network is uniquely identified by its Voice Group Call Reference or Voice Broadcast Call Reference. The Voice Group Call Reference or Voice Broadcast Call Reference is composed of the Ggroup ID and the Ggroup Ccall Aarea ID. ~~Where the routeing of dispatcher originated calls is performed without the involvement of the HLR (see 3GPP TS 43.068 [33] for VGCS and 3GPP TS 43.069 [34] for VBS), the Voice Group Call Reference or Voice Broadcast Call Reference shall have a maximum length of 4 octets.~~ The composition of the group call area ID and the group ID can be specific for each network operator.

For definition of Group Call Reference (with leading zeros inserted as necessary) on the radio interface, A interface and Abis interface, see 3GPP TS 24.008 [5], 3GPP TS 44.068 [xx] and 3GPP TS 44.069 [yy].

For definition of Group Call Reference (also known as ASCI Call Reference, Voice Group Call Reference or Voice Broadcast Call Reference) coding on MAP protocol interfaces, see 3GPP TS 29.002 [31].

The format is given in figure 12.

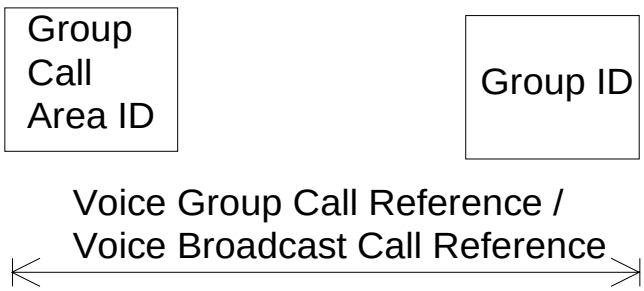

Figure 12: Voice Group Call Reference / Voice Broadcast Call Reference

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, FRANCE, 25th – 29th August 2003

Tdoc ⌘N4-031050

CR-Form-v7

CHANGE REQUEST

⌘ **29.002** **CR** **662** ⌘ **rev** **1** ⌘ Current version: **3.17.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of encoding description of Group-Id
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	07/07/03
Category:	⌘	**A**
Release:	⌘	R99

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	Group-Id as used in Voice Group Call Service (VGCS) and Voice Broadcast Service (VBS) is defined currently in ASN.1 as being 'Octet String'. In fact, in 03.68/43.068 and 03.69/43.069 this parameter is defined as being TBCD. As a result of this misalignment, and the potential for confusion between these two definitions, this is an essential correction.
Summary of change:	⌘	Encoding of Group-Id is changed from Octet String to TBCD
Consequences if not approved:	⌘	Misalignment between 09.02/29.002 and service description may result in interoperability problems

Clauses affected:	⌘	17.7.1			
Other specs affected:	⌘	**Y**	**N**		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

17.7.1 Mobile Service data types

****** *Text Removed for clarity* ******

```
GroupId  ::= TBCDOCTET--STRING (SIZE (3))
     -- When Group-Id is less than six characters in length, the TBCD filler (1111)
     -- is used to fill unused half octets.
     -- Refers to the Group Identification as specified in GSM TS 3GPP TS 203.003
     -- and GSM TS 03.68/ 03.69
```

3GPP TSG-CN4 Meeting #20 **Tdoc ⌘N4-031051**
Sophia Antipolis, FRANCE, 25th – 29th August 2003

CR-Form-v7

CHANGE REQUEST

⌘ **29.002** **CR** **663** ⌘**rev** **1** ⌘ Current version: **4.12.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of encoding description of Group-Id
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	07/07/03
Category:	⌘	**A**
Release:	⌘	Rel-4

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	Group-Id as used in Voice Group Call Service (VGCS) and Voice Broadcast Service (VBS) is defined currently in ASN.1 as being 'Octet String'. In fact, in 03.68/43.068 and 03.69/43.069 this parameter is defined as being TBCD. As a result of this misalignment, and the potential for confusion between these two definitions, this is an essential correction.
Summary of change:	⌘	Encoding of Group-Id is changed from Octet String to TBCD
Consequences if not approved:	⌘	Misalignment between 09.02/29.002 and service description may result in interoperability problems

Clauses affected:	⌘	17.7.1			
Other specs affected:	⌘	**Y**	**N**		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

17.7.1 Mobile Service data types

****** *Text Removed for clarity* ******

```
GroupId  ::= TBCD~~OCTET~~-~~-~~STRING (SIZE (3))
     -- When Group-Id is less than six characters in length, the TBCD filler (1111)
     -- is used to fill unused half octets.
     -- Refers to the Group Identification as specified in ~~GSM TS~~ 3GPP TS 2~~0~~3.003
     -- and 3GPP TS 4~~0~~3.068/ 4~~0~~3.069
```

3GPP TSG-CN4 Meeting #20
Sophia Antipolis, FRANCE, 25th – 29th August 2003

Tdoc ⌘N4-031052

CR-Form-v7

CHANGE REQUEST

⌘ **29.002** **CR** **663** ⌘ **rev** **1** ⌘ Current version: **5.6.2** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of encoding description of Group-Id
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	07/07/03
Category:	⌘	**A**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change:	⌘	Group-Id as used in Voice Group Call Service (VGCS) and Voice Broadcast Service (VBS) is defined currently in ASN.1 as being 'Octet String'. In fact, in 03.68/43.068 and 03.69/43.069 this parameter is defined as being TBCD. As a result of this misalignment, and the potential for confusion between these two definitions, this is an essential correction.
Summary of change:	⌘	Encoding of Group-Id is changed from Octet String to TBCD
Consequences if not approved:	⌘	Misalignment between 09.02/29.002 and service description may result in interoperability problems

Clauses affected:	⌘	17.7.1			
Other specs affected:	⌘	**Y**	**N**		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
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Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

17.7.1 Mobile Service data types

****** *Text Removed for clarity* ******

```
GroupId  ::= TBCD~~OCTET~~-~~-~~STRING (SIZE (3))
     -- When Group-Id is less than six characters in length, the TBCD filler (1111)
     -- is used to fill unused half octets.
     -- Refers to the Group Identification as specified in ~~GSM TS~~ 3GPP TS 2~~0~~3.003
     -- and 3GPP TS 4~~0~~3.068/ 4~~0~~3.069
```

3GPP TSG-CN4 Meeting #20 **Tdoc ⌘N4-031053**
Sophia Antipolis, FRANCE, 25th – 29th August 2003

CR-Form-v7

CHANGE REQUEST

⌘ **29.002** **CR** **664** ⌘**rev** **1** ⌘ Current version: **6.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network ☒

Title:	⌘	Correction of encoding description of Group-Id
Source:	⌘	CN4
Work item code:	⌘	ASCI
Date:	⌘	07/07/03
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 *(GSM Phase 2)*
R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*

Reason for change:	⌘	Group-Id as used in Voice Group Call Service (VGCS) and Voice Broadcast Service (VBS) is defined currently in ASN.1 as being 'Octet String'. In fact, in 03.68/43.068 and 03.69/43.069 this parameter is defined as being TBCD. As a result of this misalignment, and the potential for confusion between these two definitions, this is an essential correction.
Summary of change:	⌘	Encoding of Group-Id is changed from Octet String to TBCD
Consequences if not approved:	⌘	Misalignment between 09.02/29.002 and service description may result in interoperability problems

Clauses affected:	⌘	17.7.1			
Other specs affected:	⌘	**Y**	**N**		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

17.7.1 Mobile Service data types

****** *Text Removed for clarity* ******

```
GroupId  ::= TBCD~~OCTET~~-~~-~~STRING (SIZE (3))
     -- When Group-Id is less than six characters in length, the TBCD filler (1111)
     -- is used to fill unused half octets.
     -- Refers to the Group Identification as specified in ~~GSM TS~~ 3GPP TS 2~~0~~3.003
     -- and 3GPP TS 4~~0~~3.068/ 4~~0~~3.069
```