

**3GPP TSG CN Plenary Meeting #15
6th – 8th March 2002.Cheju, Korea.**

NP-020025

Source: TSG CN WG4
Title: CRs on R99 Multicall
Agenda item: 7.18
Document for: APPROVAL

Introduction:

This document contains 3 CRs on R99 Work Item "Multicall", that have been agreed by TSG CN WG4, and are forwarded to TSG CN Plenary meeting #15 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C
29.002	382		N4-020064	R99	Addition of Radio Resource List to the Forward Access Signalling operation	F	3.11.0
29.002	383		N4-020065	Rel-4	Addition of Radio Resource List to the Forward Access Signalling operation	A	4.6.0
29.002	384		N4-020066	Rel-5	Addition of Radio Resource List to the Forward Access Signalling operation	A	5.0.0

CHANGE REQUEST

⌘ **29.002** **CR** **382** ⌘ rev - ⌘ Current version: **3.11.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Addition of Radio Resource List to the Forward Access Signalling operation		
Source:	⌘ CN4		
Work item code:	⌘ Multicall	Date:	⌘ 15.1.2002
Category:	⌘ F (Essential Correction) Use <u>one</u> 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.		Release: ⌘ R99 Use <u>one</u> 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)

Reason for change:	⌘ The Radio Resource List parameter is needed to MAP Forward Access Signalling procedure, when MSC-A modifies multiple bearers. MSC-A has to be able to transfer the associated channel type for all modified radio access bearers to MSC-B.		
Summary of change:	⌘		
Consequences if not approved:	⌘ MSC-B does not have correct channel type information of all radio access bearers thus preventing intersystem handover to GSM.		

Clauses affected:	⌘ 8.4.4, 17.7.1		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> 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/3G_Specs/CRs.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.

8.4.4 MAP_FORWARD_ACCESS_SIGNALLING service

8.4.4.1 Definition

This service is used between MSC-A and MSC-B (E-interface) to pass information to be forwarded to the A-interface or Iu-interface of MSC-B.

The MAP_FORWARD_ACCESS_SIGNALLING service is a non-confirmed service using the primitives from table 8.4/4.

8.4.4.2 Service primitives

Table 8.4/4: MAP_FORWARD_ACCESS_SIGNALLING

Parameter name	Request	Indication
Invoke Id	M	M(=)
Integrity Protection Information	C	C(=)
Encryption Information	C	C(=)
Key Status	C	C(=)
AN-APDU	M	M(=)
Allowed GSM Algorithms	C	C(=)
Allowed UMTS Algorithms	C	C(=)
Radio Resource Information	C	C(=)
Radio Resource List	C	C(=)

8.4.4.3 Parameter use

For the definition and use of all parameters and errors, see clause 7.6.1.

Invoke Id

For definition of this parameter see clause 7.6.1.

Integrity Protection Information

For definition of this parameter see clause 7.6.6. This UMTS parameter shall be included if available and if the encapsulated PDU is BSSMAP Cipher Mode Command.

Encryption Information

For definition of this parameter see clause 7.6.6. This UMTS parameter shall be included if available and if the encapsulated PDU is BSSMAP Cipher Mode Command.

Key Status

For definition of this parameter see clause 7.6.6. This UMTS parameter shall be included if available and if the encapsulated PDU is BSSMAP Cipher Mode Command.

AN-APDU

For definition of this parameter see clause 7.6.9.

Allowed GSM Algorithms

This parameters includes allowed GSM algorithms. This GSM parameter shall be included if the encapsulated PDU is RANAP Security Mode Command and there is an indication that the UE also supports GSM.

Allowed UMTS Algorithms

For definition of this parameter see clause 7.6.6. This UMTS parameter shall be included if Integrity Protection Information and Encryption Information are not available and the encapsulated PDU is BSSMAP Cipher Mode Command.

Radio Resource Information

For definition of this parameter see clause 7.6.6. This parameter shall be sent if the encapsulated PDU is RANAP RAB Assignment Request. If the parameter Radio Resource List is sent, the parameter Radio Resource Information shall not be sent.

Radio Resource List

For definition of this parameter see clause 7.6.6. This parameter shall be sent if the encapsulated PDU is RANAP RAB Assignment Request and MSC-A requests modification of multiple bearers. If the parameter Radio Resource Information is sent, the parameter Radio Resource List shall not be sent.

**** NEXT MODIFIED SECTION ****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

....

```

ForwardAccessSignalling-Arg ::= [3] SEQUENCE {
  an-APDU                               AccessNetworkSignalInfo,
  integrityProtectionInfo                [0] IntegrityProtectionInformation OPTIONAL,
  encryptionInfo                         [1] EncryptionInformation      OPTIONAL,
  keyStatus                              [2] KeyStatus                OPTIONAL,
  allowedGSM-Algorithms                  [4] AllowedGSM-Algorithms    OPTIONAL,
  allowedUMTS-Algorithms                 [5] AllowedUMTS-Algorithms  OPTIONAL,
  radioResourceInformation               [6] RadioResourceInformation OPTIONAL,
  extensionContainer                     [3] ExtensionContainer      OPTIONAL,
  .../
  radioResourceList                      [7] RadioResourceList      OPTIONAL}

```

CHANGE REQUEST

⌘ **29.002** **CR** **384** ⌘ rev - ⌘ Current version: **5.0.0** ⌘

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

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Addition of Radio Resource List to the Forward Access Signalling operation		
Source:	⌘ CN4		
Work item code:	⌘ Multicall	Date:	⌘ 15.1.2002
Category:	⌘ A Use <u>one</u> 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.	Release:	⌘ REL-5 Use <u>one</u> 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)

Reason for change:	⌘ The Radio Resource List parameter is needed to MAP Forward Access Signalling procedure, when MSC-A modifies multiple bearers. MSC-A has to be able to transfer the associated channel type for all modified radio access bearers to MSC-B.
Summary of change:	⌘
Consequences if not approved:	⌘ MSC-B does not have correct channel type information of all radio access bearers thus preventing intersystem handover to GSM.

Clauses affected:	⌘ 8.4.4, 17.7.1
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘

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8.4.4 MAP_FORWARD_ACCESS_SIGNALLING service

8.4.4.1 Definition

This service is used between MSC-A and MSC-B (E-interface) to pass information to be forwarded to the A-interface or Iu-interface of MSC-B.

The MAP_FORWARD_ACCESS_SIGNALLING service is a non-confirmed service using the primitives from table 8.4/4.

8.4.4.2 Service primitives

Table 8.4/4: MAP_FORWARD_ACCESS_SIGNALLING

Parameter name	Request	Indication
Invoke Id	M	M(=)
Integrity Protection Information	C	C(=)
Encryption Information	C	C(=)
Key Status	C	C(=)
AN-APDU	M	M(=)
Allowed GSM Algorithms	C	C(=)
Allowed UMTS Algorithms	C	C(=)
Radio Resource Information	C	C(=)
Radio Resource List	C	C(=)

8.4.4.3 Parameter use

For the definition and use of all parameters and errors, see clause 7.6.1.

Invoke Id

For definition of this parameter see clause 7.6.1.

Integrity Protection Information

For definition of this parameter see clause 7.6.6. This UMTS parameter shall be included if available and if the encapsulated PDU is BSSMAP Cipher Mode Command.

Encryption Information

For definition of this parameter see clause 7.6.6. This UMTS parameter shall be included if available and if the encapsulated PDU is BSSMAP Cipher Mode Command.

Key Status

For definition of this parameter see clause 7.6.6. This UMTS parameter shall be included if available and if the encapsulated PDU is BSSMAP Cipher Mode Command.

AN-APDU

For definition of this parameter see clause 7.6.9.

Allowed GSM Algorithms

This parameters includes allowed GSM algorithms. This GSM parameter shall be included if the encapsulated PDU is RANAP Security Mode Command and there is an indication that the UE also supports GSM.

Allowed UMTS Algorithms

For definition of this parameter see clause 7.6.6. This UMTS parameter shall be included if Integrity Protection Information and Encryption Information are not available and the encapsulated PDU is BSSMAP Cipher Mode Command.

Radio Resource Information

For definition of this parameter see clause 7.6.6. This parameter shall be sent if the encapsulated PDU is RANAP RAB Assignment Request. If the parameter Radio Resource List is sent, the parameter Radio Resource Information shall not be sent.

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**** NEXT MODIFIED SECTION ****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

....

```

ForwardAccessSignalling-Arg ::= [3] SEQUENCE {
  an-APDU                               AccessNetworkSignalInfo,
  integrityProtectionInfo                [0] IntegrityProtectionInformation OPTIONAL,
  encryptionInfo                         [1] EncryptionInformation      OPTIONAL,
  keyStatus                              [2] KeyStatus                OPTIONAL,
  allowedGSM-Algorithms                  [4] AllowedGSM-Algorithms      OPTIONAL,
  allowedUMTS-Algorithms                 [5] AllowedUMTS-Algorithms     OPTIONAL,
  radioResourceInformation                [6] RadioResourceInformation    OPTIONAL,
  extensionContainer                     [3] ExtensionContainer         OPTIONAL,
  .../
  radioResourceList                      [7] RadioResourceList          OPTIONAL}

```

CHANGE REQUEST

⌘ **29.002** **CR** **383** ⌘ rev - ⌘ Current version: **4.6.0** ⌘

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Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

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Source:	⌘	CN4
Work item code:	⌘	Multicall
		Date: ⌘ 15.1.2002
Category:	⌘	A
		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><i>Use <u>one</u> of the following categories:</i></p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (addition of feature),</p> <p>C (functional modification of feature)</p> <p>D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p> </div> <div style="width: 45%;"> <p><i>Use <u>one</u> of the following releases:</i></p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>REL-4 (Release 4)</p> <p>REL-5 (Release 5)</p> </div> </div>

Reason for change:	⌘	The Radio Resource List parameter is needed to MAP Forward Access Signalling procedure, when MSC-A modifies multiple bearers. MSC-A has to be able to transfer the associated channel type for all modified radio access bearers to MSC-B.
Summary of change:	⌘	
Consequences if not approved:	⌘	MSC-B does not have correct channel type information of all radio access bearers thus preventing intersystem handover to GSM.

Clauses affected:	⌘	8.4.4, 17.7.1
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications ⌘ <input type="checkbox"/> O&M Specifications ⌘
Other comments:	⌘	

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Radio Resource Information	C	C(=)
Radio Resource List	C	C(=)

8.4.4.3 Parameter use

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**** NEXT MODIFIED SECTION ****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

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  radioResourceInformation               [6] RadioResourceInformation  OPTIONAL,
  extensionContainer                     [3] ExtensionContainer        OPTIONAL,
  .../
  radioResourceList                      [7] RadioResourceList        OPTIONAL}

```