3GPP TSG_CN Plenary Meeting #9, Oahu, Hawaii 20th – 22nd September 2000.

Source: TSG_N WG 4

Title: CRs to R00 Work Item Handover

Agenda item:

Document for: APPROVAL

Introduction:

This document contains 2 CRs on R00 Work Item Handover, that have been agreed by TSG_N WG4, and is forwarded to TSG_N Plenary meeting #9 for approval.

SM	TDoc	SPEC	CR	REV	PHAS	VERS	SUBJECT	CAT	
CN9	N4-000540	29.002	159		R00	4.0.1	Aligning 29.002 with 25.413 (UTRAN Iu Interface RANAP	А	
CN9	N4-000747	29.002	178	1	R00	4.0.1	Clarification of use of Radio Resource Information	A	

3GPP TSG CN WG4 17-21 July 2000 Helsinki, Finland

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		CHANGE F	REQL	JEST	Please see embe page for instruction	dded help file ons on how to	e at the bottom of th o fill in this form corr	is ectly.
		29.002	CR	159	Curre	nt Versio	n: <mark>4.0.1</mark>	
GSM (AA.BB) or 3G	G (AA.BBB) specifica	tion number ↑		↑ CR	number as allocate	d by MCC sı	upport team	
For submission	to: CN#09 neeting # here ↑	for ap for infor	oproval mation	X	no	strateg n-strateg	jic (for SM jic X use or	ΛG nly)
Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ttp://ftp.3gpp.org/Information/CR-Form- Proposed change affects: (U)SIM ME UTRAN / Radio Core Network (at least one should be marked with an X) (U)SIM ME UTRAN / Radio Core Network							-v2.doc	
Source:	N4					Date:	19.07.2000	
Subject:	Aligning 29.	<mark>002 with 25.413 (</mark> I	UTRAN	<mark>lu Interfac</mark>	<mark>e RANAP Sig</mark>	nalling)		
Work item:	Handover							
Category:FA(only one categoryshall be marked(only one categorywith an X)CReason forchange:	Correction Correspond Addition of Functional 10 Editorial mo CN passes RANAP me 8.1.18 and 9 E-interface MAP_FORV Information Status is mi	Is to a correction i feature modification of fea odification cipher and integrit ssage Security mo 0.1.26). After inte the information is VARD_ACCESS_ includes Integrity ssing from 29.002	n an ear ature bde Com transferr SIGNAL Protectio and this	informatio mand (se inter MS ed from M LING mes on Informa	e X n and key sta e 3G TS 25.4 C handover, v ISC-A to MSC ssage, at the ation, Encrypti	tus to the 13 v. 3.2 when BS C-B with MAP leve on Inform	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00 e UTRAN with 0 chapters SMAP is used	in ay
Clauses affected	d: 7.6.6,	8.4.4, 17.7.1						
Other specs affected:	Other 3G corr Other GSM c MS test speci BSS test spec O&M specific	e specifications ore specifications fications cifications ations		 → List of C 	CRs: CRs: CRs: CRs: CRs: CRs:			
<u>Other</u> comments:								

7.6.6 Radio parameters

7.6.6.1 - 7.6.6.6 Void

7.6.6.7 HO-Number Not Required

This parameter indicates that no handover or relocation number allocation is necessary.

7.6.6.8 Integrity Protection Information

This parameter refers to the Integrity Protection Information element defined in 3G TS 25.413.

7.6.6.9 Encryption Information

This parameter refers to the Encryption Information element defined in 3G TS 25.413.

7.6.6.10 Key Status

This parameter refers to the Key Status element defined in 3G TS 25.413.

**** NEXT MODIFIED SECTION ****

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

Parameter name	Request	Indication
Invoke Id	М	M(=)
Integrity Protection Information	С	C(=)
Encryption Information	С	C(=)
Key Status	<u>C</u>	<u>C(=)</u>
AN-APDU	М	M(=)

Table 8.4/4: MAP_FORWARD_ACCESS_SIGNALLING

8.4.4.3 Parameter use

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

Invoke Id

For definition of this parameter see subclause 7.6.1.

Integrity Protection Information

For definition of this parameter see subclause 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 subclause 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 subclause 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 subclause 7.6.9.

**** NEXT MODIFIED SECTION ****

17.7 MAP constants and data types

17.7.1 Mobile Service data types

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-- handover types

ForwardAccessSignalling-Arg ::=	[3] SEQUENCE {	
an-APDU	AccessNetworkSignalInfo,	
integrityProtectionInfo	[0] IntegrityProtectionInformation	ation OPTIONAL,
encryptionInfo	[1] EncryptionInformation	OPTIONAL,
keyStatus	[2] KeyStatus	OPTIONAL,
extensionContainer	[3 2] ExtensionContainer	OPTIONAL,
}	_	

KeyStatus ::= ENUMERATED {	
old (0),	
new (1),	
}	
exception handling:	
received values in range 2-31 shall be treated as "old"	
received values greater than 31 shall be treated as "new"	

			CHANGE		UES	Please page t	e see embedded help for instructions on hov	file at the bottom of th v to fill in this form cor	nis rectly.
			29.00	2 CR	178	Br1	Current Vers	ion: 4.0.1	
GSM (AA.BB) or	3G (A	AA.BBB) specific	ation number \uparrow			↑ CR number	as allocated by MCC	support team	
For submission to: CN#09 list expected approval meeting # here ↑			fo for ir	r approva nformatior	I X		strate non-strate	egic (for Si egic X use of	MG nly)
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Proposed change affects: (at least one should be marked with an X)			(U)SIM	ME		UTRAN	I / Radio	Core Network	K X
Source:		N4					Date:	2000-08-31	
Subject:		Clarification	of use of Radi	<mark>o Resour</mark>	<mark>ce Inforr</mark>	nation			
<u>Work item:</u>		Handover							
Category: (only one category shall be marked with an X)	F A B C D	Correction Correspond Addition of Functional Editorial mo	ds to a correction feature modification of pdification	on in an e feature	arlier rel	ease	X X	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X
<u>Reason for</u> change:		CR 29.002- relocation. Information CR tries to	105r1 introduc However, the d (08.08 Channe clarify RRI.	ed suppo escription el Type) is	rt for inte when a somew	er-system nd why to hat obscu	handover and user the Radio ure and should	inter-MSC Resource be clarified. Th	is
Clauses affect	ted:								
Other specs affected:	C C M B C	other 3G cor other GSM c IS test spec SS test spe &M specific	e specifications ore specifications ifications cifications cations	s X ons		of CRs: of CRs: of CRs: of CRs: of CRs:	29.010		
<u>Other</u> comments:									

<----- double-click here for help and instructions on how to create a CR.

19.2.2.1 Basic handover

help.doc

When MSC-A has decided that a call has to be handed over or relocated to MSC-B, the Handover Control Application in MSC-A requests the MAP application to initiate the MAP_PREPARE_HANDOVER request to MSC-B.

MSC-A opens the dialogue to MSC-B with a MAP_OPEN request containing no user specific parameters and sends a MAP_PREPARE_HANDOVER request. This request may optionally contain an indication that a handover number allocation is not required, targetCellId, for compatibility reasons if handover, and all information required by MSC-B to

allocate the necessary radio resources. The request may also contain IMSI, UMTS encryption information and UMTS integrity protection information that are necessary parameters for inter-system handover from GSM to UMTS. <u>GSM</u> radio resource information (channel type) shall be included at inter-MSC relocation to prepare for a possible subsequent intra-MSC handover from UMTS to GSM in MSC-B. The conditions when these parameters shall be included and the processing of them in MSC-B (3G MSC-B) are described in detail in 3G TS 29.010 and 23.009. <u>GSM radio resource</u> information (channel type) may be included for inter system handover from UMTS to GSM. The conditions when these parameters shall be included are described in detail in 3G TS 23.009.

If MSC-B accepts the dialogue, it returns a MAP_PREPARE_HANDOVER confirmation containing a handover number or one or several relocation numbers, unless the request has included the HO-NumberNotRequired parameter, and BSSAP or RANAP information which is forwarded to and handled by the Handover Control Application in MSC-A.

Optionally MSC-A can receive, after a MAP_PREPARE_HANDOVER confirmation, a MAP_PROCESS_ACCESS_SIGNALLING indication containing BSSAP or RANAP information.

When the connection has been established between the MS and MSC-B, MSC-A will be informed by a MAP_SEND_END_SIGNAL indication.

When MSC-A wants to clear the connection with BSS-B, an indication from the Handover Control Application is received in the Map Application to send the MAP_SEND_END-SIGNAL response to MSC-B to close the MAP dialogue.

MSC-A may abort the handover or relocation procedure at any time (e.g. if the call is cleared).