

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

Tdoc NP-000491

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	A
CN9	N4-000747	29.002	178	1	R00	4.0.1	Clarification of use of Radio Resource Information	A

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

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(=)
<u>Key Status</u>	<u>C</u>	<u>C(=)</u>
AN-APDU	M	M(=)

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

.....

-- *handover types*

```
ForwardAccessSignalling-Arg ::= [3] SEQUENCE {
  an-APDU                               AccessNetworkSignalInfo,
  integrityProtectionInfo                [0] IntegrityProtectionInformation OPTIONAL,
  encryptionInfo                         [1] EncryptionInformation      OPTIONAL,
  keyStatus                              [2] KeyStatus                OPTIONAL,
  extensionContainer                      [32] 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"
```


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. GSM 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. ~~GSM radio resource 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_HANOVER 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_HANOVER 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).