NP-020397

4th - 6th September 2002. Biarritz, France.

Source: **ORANGE, ERICSSON, LUCENT**

Title: Addition of an error mapping table for MAP Update Location operation

7.11 Agenda item:

Proposed change affects:

Document for: APPROVAL

3GPP TSG CN WG4 Meeting #15

N4-021052 - rev

Core Network X

Helsinki, Finland, 29th July – 2nd August 2002

UICC apps₩

CR-Form-v7 CHANGE REQUEST Current version: 29.010 CR 068

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the \$\mathbb{X}\$ symbols.

Radio Access Network

Title: Addition of an error mapping table for MAP Update Location operation Orange, Ericsson, Lucent Source: Date: 第 10/07/2002 Release: # Rel-4 **A** (Agreed by consensus) Category: Use one of the following categories: Use one of the following releases: (GSM Phase 2) F (correction) 2 **A** (corresponds to a correction in an earlier release) R96 (Release 1996) (Release 1997) **B** (addition of feature), R97 **C** (functional modification of feature) (Release 1998) R98 **D** (editorial modification) R99 (Release 1999) Detailed explanations of the above categories can Rel-4 (Release 4) be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6)

The MAP Operations UPDATE_LOCATION_AREA and DETACH_IMSI have Reason for change: # been removed from the R99 29.010 onward, following the removal of this operation in 29.002. There is a need in the 29.010 of a mapping table between MAP and DTAP error causes for the Location Update procedure. Summary of change: ₩ Introduction of an error cause mapping table for the Location Update procedure. Consequences if Risk of inconsistent mapping by the MSC. not approved: The consequence is that for the same error condition reported by the HLR, the handling of the UE will be different in different MSC implementations. Depending on the mapping done by the MSC the UE might be denied service.

Clauses affected: 第 2.1, 3.2

Other specs affected:	¥	Υ	N X X X	Other core specifications Test specifications 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.

**** FIRST MODIFIED SECTION ****

2.1 Transparent procedures

The following MSC procedures require transparent mapping of <u>BSSAPaccess protocol</u> information elements into MAP parameters and vice versa (see <u>GSM-3GPP TS 0929.002</u> for definitions and the use of the procedures):

- location update;
- update location area;
- detach IMSI;
- forward new TMSI;
- provide IMSI;
- obtain IMEI;
- check IMEI;
- authenticate;
- trace subscriber activity.

**** NEXT MODIFIED SECTION ****

3.2 Location update

	24.008	29.002	Notes
Forward	MM (LOCATION UPDATING	MAP_UPDATE_LOCATION_	-
message	REQUEST)	request =	
	Location area id	_	<u>2</u>
	Service area id		3
	Mobile identity Mobile station	IMSI	+
	classmark 1		+
	Mobile station		<u>t</u>
	classmark 2 Ciphering key	_	_
	seq_number	-	+
	Location update	_	+
	type Cell identifier		
	Ceil identifier Chosen channel		<u>‡_</u>
			 -
Positive results	MM_(LOCATION	MAP_UPDATE_LOCATION	
	UPDATING ACCEPT)	response	\perp
	Location area identity	_	+
	Mobile identity	_	+
	Follow on proceed	_	I
Negative	MM (LOCATION	MAP UPDATE LOCATION	
results	UPDATING REJECT)	response	
	IMSI unknown in HLR	Unknown subscriber	
	IMSI UIIKIIOWII III HLK	Roaming not allowed:	+
	PLMN not_allowed	PLMN not allowed	
	LA not allowed	_	
	Roaming not allowed in this LA		
	No Suitable cells in	_	+
	location area		†
	PLMN not allowed	Operator	
	Illegal MS	determined barring	
	Illegal ME	_	
	Network failure	System Failure	+
	Network failure	Unexpected data value	
	Network failure Network failure	MAP_U/P_ABORT MAP_NOTICE	
	Network failure	MAP_NOTICE MAP_CLOSE	+
			

NOTE 1 The HLR shall also send this error if there is an error in the type of subscription (i.e. VLR requests service for a GPRS only subscriber).

NOTE 2 This parameter applies for GSM/GERAN access

NOTE 3 This parameter applies for UTRAN access

**** END OF MODIFICATIONS ****