3GPP TSG CN Plenary Meeting #27 9th – 11th March 2005 Tokyo, JAPAN.

NP-050054

Source: TSG CN WG4

Title: Corrections on MAP

Agenda item: 9.21

Document for: APPROVAL

Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Ver_C
N4-050369	29.002	761	1	Rel-6	Addition of LAI to SendIdentification Request	F	6.8.0

3GPP TSG-CN WG4 Meeting #26

Sydney, Australia. 14th to 18th February 2005.

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*	29	.002	CR	761		жrev	1	¥	Current v	/ersion:	6.8.0	¥
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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 X												
Title:	Ad	dition o	of LAI t	o SendId	lentific	ation Re	eques	t				
Source: #	CN	l4										
 Work item code: ₩	TE	16							Date	e: # 10	6/02/2005	
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Reason for change	e: Ж	Outsid provid	le the lo	cation are unambig	ea it ha guous i	s to be codentity.	ombin	ed wi	th the Loca	ation Ar	ea Identifier	(LAI) to
		previo	us VLR	in order	to requ	est the s	ubscri	ber's		unused	he new VLR authentication	
		area, o b) the PV	r	ınot unam					-		n the comple	
Summary of chang	70. ⁴⁰	٨٨٨	the LA	I to MAP	Sand	Idontific	ation/	١ra				
Summary or chang	уе. њ	Auu	IIIE LA	I to MAP	Sena	identilic	alioni	arg				
Consequences if not approved:	*	can l	be serv	red by a ' ISI reque	VĽR (s	see calc	ulatio	ns in	23.236 aı	nnex A)	f subscribe , alternativation vector	e b)
Clauses affected:	*	8.1.4	l, 17.7.	1								
J. Hadda directodi		YN										

Other specs affected:	¥	X	Other core specifications Test specifications O&M Specifications	\mathfrak{H}					
Other comments:	\mathbb{H}	# It must be noted that for the analogon in the PS-domain (GTP Identification Request) the Routing Area Id is transmitted together with the P-TMSI to the previous SGSN (see 29.060 chapter7.5.1).							

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:

- 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.

8.1.4 MAP_SEND_IDENTIFICATION service

8.1.4.1 Definition

The MAP_SEND_IDENTIFICATION service is used between a VLR and a previous VLR to retrieve IMSI and authentication data for a subscriber registering afresh in that VLR.

It may also be used to send the MSC number from a VLR to a previous VLR.

The MAP_SEND_IDENTIFICATION service is a confirmed service using the service primitives defined in table 8.1/4.

8.1.4.2 Service primitives

Table 8.1/4: MAP_SEND_IDENTIFICATION

Parameter name	Request	Indication	Response	Confirm
Invoke Id	M	M(=)	M(=)	M(=)
TMSI	M	M(=)		
Number of requested vectors	M	M(=)		
Segmentation prohibited indicator	С	C(=)		
MSC Number	U	C(=)		
Previous Location Area Id	<u>U</u>	<u>C(=)</u>		
IMSI			С	C(=)
Authentication set			U	C(=)
Current Security Context			U	C(=)
User error			С	C(=)
Provider error				0

8.1.4.3 Parameter definitions and use

Invoke Id

See definition in clause 7.6.1.

TMSI

See definition in clause 7.6.2.

If multiple service requests are present in a dialogue then this parameter shall be present in every service request.

Number of requested vectors

A number indicating how many authentication vectors the new VLR is prepared to receive. The previous VLR shall not return more vectors than indicated by this parameter.

This parameter shall be present in the first (or only) request of the dialogue. If multiple service requests are present in a dialogue then this parameter shall not be present in any service request other than the first one

Segmentation prohibited indicator

This parameter indicates if the new VLR or SGSN allows segmentation of the response at MAP user level.

This parameter may be present only in the first request of the dialogue.

IMSI

See definition in clause 7.6.2. The IMSI is to be returned if the service succeeds.

If multiple service requests are present in a dialogue and the service succeeds then this parameter shall not be present in any service response other than the first one

MSC Number

This is the ISDN number assigned to the MSC currently serving the MS.

Previous Location Area Id

See definition in clause 7.6.2. Together with the TMSI the Previous Location Area Id can be used to derive the IMSI.

Authentication set

See definition in clause 7.6.7. If the service succeeds a list of up to five authentication sets is returned, if there are any available.

Current Security Context

See definition in clause 7.6.7. If the service succeeds, a list of either GSM or UMTS Security Context parameters can be returned.

User error

This parameter is mandatory if the service fails. The following error cause defined in clause 7.6.1 may be used, depending on the nature of the fault:

- unidentified subscriber.

Provider error

For definition of provider errors see clause 7.6.1.

*************next modification**********

17.7.1 Mobile Service data types

```
IMPORTS
       maxNumOfSS,
       SS-SubscriptionOption,
       SS-List,
       SS-ForBS-Code,
       Password
FROM MAP-SS-DataTypes {
   itu-t identified-organization (4) etsi (0) mobileDomain (0)
   gsm-Network (1) modules (3) map-SS-DataTypes (14) version9 (9)}
       SS-Code
FROM MAP-SS-Code {
   itu-t identified-organization (4) etsi (0) mobileDomain (0)
   gsm-Network (1) modules (3) map-SS-Code (15) version9 (9)}
       Ext-BearerServiceCode
FROM MAP-BS-Code {
   itu-t identified-organization (4) etsi (0) mobileDomain (0)
   gsm-Network (1) modules (3) map-BS-Code (20) version9 (9)}
       Ext-TeleserviceCode
FROM MAP-TS-Code {
   itu-t identified-organization (4) etsi (0) mobileDomain (0)
   gsm-Network (1) modules (3) map-TS-Code (19) version9 (9)}
       AddressString,
   ISDN-AddressString,
       ISDN-SubaddressString,
       FTN-AddressString,
       AccessNetworkSignalInfo,
       IMSI,
       IMEI,
       TMSI,
       HLR-List,
```

```
LMSI,
       Identity,
       GlobalCellId,
       CellGlobalIdOrServiceAreaIdOrLAI,
       Ext-BasicServiceCode,
       NAEA-PreferredCI,
       EMLPP-Info,
       MC-SS-Info,
       SubscriberIdentity,
       AgeOfLocationInformation,
       LCSClientExternalID,
       LCSClientInternalID,
       Ext-SS-Status,
       LCSServiceTypeID,
       ASCI-CallReference,
       TBCD-STRING,
       LAIFixedLength
FROM MAP-CommonDataTypes {
   itu-t identified-organization (4) etsi (0) mobileDomain (0)
   gsm-Network (1) modules (3) map-CommonDataTypes (18) version9 (9)}
       ExtensionContainer
FROM MAP-ExtensionDataTypes {
   itu-t identified-organization (4) etsi (0) mobile
Domain (0)
   gsm-Network (1) modules (3) map-ExtensionDataTypes (21) version9 (9)}
       AbsentSubscriberDiagnosticSM
FROM MAP-ER-DataTypes \{
   itu-t identified-organization (4) etsi (0) mobile
Domain (0) \,
   gsm-Network (1) modules (3) map-ER-DataTypes (17) version9 (9)}
SendIdentificationArg ::= SEQUENCE {
                                          TMSI,
                                          NumberOfRequestedVectors
    {\tt numberOfRequestedVectors}
                                                                             OPTIONAL,
    -- within a dialogue numberOfRequestedVectors shall be present in
     -- the first service request and shall not be present in subsequent service
requests.
     -- If received in a subsequent service request it shall be discarded.
    segmentationProhibited
                                          NULL
                                                                             OPTIONAL,
                                          ExtensionContainer
    extensionContainer
                                                                             OPTIONAL,
```

•••

msc-Number

previous-LAI

ISDN-AddressString

[0] LAIFixedLength

OPTIONAL,

OPTIONAL