

3GPP TSG CN Plenary Meeting #26
8th – 10th December 2004 Athens, Greece.

NP-040546

Source: TSG CN WG4
Title: Corrections on MAP TEI6
Agenda item: 9.21
Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level N4-040	Phase	Subject	Cat	Ver_C
29.002	752		1477	Rel-6	Correction to the service response parameters of ATI	F	6.7.0
29.002	757	2	1683	Rel-6	Clarification about returning authentication data for a subscriber (GSM or UMTS)	F	6.7.0

Seoul, KOREA. 15th to 19th November 2004.

CR-Form-v7.1

CHANGE REQUEST⌘ **29.002 CR 752** ⌘ rev **-** ⌘ Current version: **6.7.0** ⌘For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.Proposed change affects: UICC apps ⌘ ME Radio Access Network Core Network

Title:	⌘ Correction to the service response parameters of ATI		
Source:	⌘ CN4		
Work item code:	⌘ TEI6	Date:	⌘ 05/11/2004
Category:	⌘ F	Release:	⌘ Rel-6
	Use <i>one</i> of the following categories:		Use <i>one</i> of the following releases:
	F (correction)		Ph2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)
			Rel-7 (Release 7)

Reason for change:	⌘ When the MAP Any Time Interrogation service was changed so that it could be used to request MNP information from MNP SRF, the response parameters were changed to indicate that the response may carry also IMSI and MSISDN parameters as separate parameters. However that is not the case, the IMSI and MSISDN can be carried in the response only as part of MNP Info Result parameter, the definition of MNP Info Result being:
	<p>7.6.3.93 MNP Info Result</p> <p>This parameter refers to the Mobile Number Portability (MNP) information result (see 3GPP TS 23.078 [98] and 3GPP TS 23.066 [108]). This parameter may contain the following information:</p> <ul style="list-style-type: none"> - Routing Number (see clause 7.6.2.63). - IMSI (see 3GPP TS 23.078[98], see also clause 7.6.2.1). - MSISDN (see clause 7.6.2.17). - Number Portability Status (see clause 7.6.5.14).
Summary of change:	⌘ The separate parameters IMSI and MSISDN have been removed from the service response.

Consequences if not approved: ⌘ The indication that IMSI and MSISDN can be carried as separate parameters in the Any Time Interrogation service response may cause confusion and wrong interpretation of the specification.

Clauses affected: ⌘ 8.11.1.2

	Y	N		⌘
Other specs affected:		X	Other core specifications	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:

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- 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.

8.11.1.2 Service primitives

Table 8.11/1: Any_Time_Interrogation

Parameter name	Request	Indication	Response	Confirm
Invoke id	M	M(=)	M(=)	M(=)
Requested Info	M	M(=)		
Requested domain	C	C(=)		
MNP Requested Info	C	C(=)		
gsmSCF-Address	M	M(=)		
IMSI	C	C(=)	⊖	⊖(⇒)
MSISDN	C	C(=)	⊖	⊖(⇒)
Location Information			C	C(=)
Location Information for GPRS			C	C(=)
Subscriber State			C	C(=)
PS Subscriber State			C	C(=)
IMEI			C	C(=)
MS Classmark 2			C	C(=)
GPRS MS Class			C	C(=)
MNP info Result			C	C(=)
User error			C	C(=)
Provider error				O

CHANGE REQUEST

⌘ **29.002** **CR 757** ⌘ rev **2** ⌘ Current version: **6.7.0** ⌘

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

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Clarification about returning authentication data for a subscriber (GSM or UMTS)		
Source:	⌘ CN4		
Work item code:	⌘ TEI6	Date:	⌘ 10/11/2004
Category:	⌘ F	Release:	⌘ Rel-6
	Use <i>one</i> 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 .		Use <i>one</i> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ It is important for a Rel-6 compliant HLR to know how to return authentication data for a subscriber, which has not be defined in the authentication macros and processes in TS 29.002.
Summary of change:	⌘ Add principles for returning authentication data for a UMTS subscriber and a GSM subscriber in the description text of authentication macros and processes.
Consequences if not approved:	⌘ Important principles are absent.

Clauses affected:	⌘ 25.5.6										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

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****** FIRST MODIFIED SECTION******

25.5 Authentication macros and processes

The following macros are used in the network in order to enable authentication of a mobile subscriber.

25.5.1 Macro Authenticate_MSC

This macro is used by the MSC to relay a request for authentication transparently from the VLR to the MS, wait for a response from the MS and relay the response from the MS back to the VLR.

25.5.2 Macro Authenticate_VLR

This macro is used by the VLR to control the authentication of a subscriber.

Sheet 1: The test "Received SRES=Expected SRES" indicates:

- a comparison of the Signed REsult received from the MS with the Signed REsult received from the HLR, if GSM authentication is used (see 3GPP TS 43.020 [24]), or
- a comparison of the REsult received from the MS with the expected REsult received from the HLR, if UMTS authentication is used (see 3GPP TS 33.102).

25.5.3 Macro Obtain_Authent_Params_VLR

This macro is used by the VLR to request authentication vectors from the HLR.

Sheet 1, sheet 2, sheet 3: It is an operator option whether to allow the re-use of old authentication triplets.

Sheet 2, sheet 3: Old UMTS quintuplets shall not be re-used.

Sheet 2: if the VLR requests more authentication vectors in the same dialogue, the subsequent MAP_SEND_AUTHENTICATION_INFO request has no parameters.

25.5.4 Process Obtain_Authentication_Sets_VLR

This process is initiated by the VLR to fetch authentication vectors from a subscriber's HLR independently of any other processing.

25.5.6 Process Obtain_Authent_Sets_SGSN

The procedure for authentication when the serving node is an SGSN is described in 3GPP TS 23.060 [104] and 3GPP TS 24.008 [35].

This Process is used by the SGSN to request authentication vectors from the HLR.

Sheet 1, sheet 2: It is an operator option whether to allow the re-use of old authentication triplets.

Sheet 2: Old UMTS quintuplets shall not be re-used.

25.5.6 Process Obtain_Authent_Sets_HLR

This process is used to provide authentication vectors (triplets or quintuplets) in response to a request from a VLR or an SGSN.

Upon receipt of an authentication information request for a UMTS subscriber, the HLR shall return authentication quintuplets. If the user is a GSM subscriber, the HLR shall return authentication triplets.