

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

NP-040532

Source: TSG CN WG4
Title: Corrections on Subscriber data handling for the IMS
Agenda item: 9.1
Document for: APPROVAL

Spec	CR	Rev	Doc-2nd-Level N4-040	Phase	Subject	Cat	Ver_C
23.008	136		1247	Rel-6	Optimization of User Profile Download	B	6.3.0
23.008	137		1248	Rel-6	Subscribed Media Profile Identifier	F	6.3.0

CHANGE REQUEST

⌘ **23.008 CR 136** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘

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:	⌘ Optimization of User Profile Download		
Source:	⌘ CN4		
Work item code:	⌘ IMS2	Date:	⌘ 07/09/2004
Category:	⌘ B	Release:	⌘ Rel-6
	<i>Use one of the following categories:</i> 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 .		<i>Use one of the following releases:</i> 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:	⌘ To optimize the user data download procedure with respect to signalling load on the Cx interface and memory capacity in HSS and S-CSCF.
Summary of change:	⌘ Add Shared iFC Set Identifier as permanent data stored at the HSS and the S-CSCF
Consequences if not approved:	⌘ No saving of signalling and memory capacity.

Clauses affected:	⌘ 3.5, 5.3										
Other specs affected:	<table border="1"> <tr> <td>Y</td> <td>N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	⌘ 29.229-056, 29.228-122
	Y	N									
	X										
	X										
	X										
		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.

3.5 Data related to Application and service triggers

For definition and handling of these data see 3GPP TS 23.218 [53].

3.5.1 Subscribed Media Profile Identifier

The Subscribed Media Profile Identifier identifies a set of session description parameters that the subscriber is authorized to request. The translation from the Profile Identifier to the set of subscribed media is performed in the S-CSCF based on operator configuration.

The Subscribed Media Profile Identifier is permanent data stored

Subscribed Media Profile Identifier	3.5.1	C	C	-	P
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ed in the HSS and in the S-CSCF.

3.5.2 Initial Filter Criteria

A set of Initial Filter Criteria are stored for each user, for each application or service that the user request may invoke. The relevant service points of interest are defined in 3GPP TS 23.218 [53] subclause 5.2.

Each set of filter criteria includes the Application Server Address, AS priority, Default Handling, Subscribed Media, Trigger Points and Optional Service Information.

3.5.3 Application Server Information

The HSS may store Application Server specific information for each user. This information may include Service Key, Trigger Points, and Service Scripts etc. (see 3GPP TS 23.218 [53] subclause 9.3.1)

3.5.4 Service Indication

Service Indication identifies exactly one set of service related transparent data (see 3GPP TS 29.328 [54]), which is stored in an HSS in an operator network. It is defined in 3GPP TS 29.328 [54].

The Service Indication is permanent subscriber data and is stored in the HSS and one or more ASs.

3.5.5 Shared iFC Set Identifier

Shared iFC Set Identifier identify sets of Initial Filter Criteria that may be shared by more than one subscriber. The translation from a Shared iFC Set Identifier to the set of initial Filter Criteria is performed in the S-CSCF based on operator configuration.

The Shared iFC Set Identifier are permanent data stored in the HSS and in the S-CSCF.

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

5.3 IP Multimedia Service Data Storage

Table 5.3: Overview of data used for IP Multimedia services

PARAMETER	Subclause	HSS	S-CSCF	IM-SSF	AS	TYPE
Private User Identity	3.1.1	M	M		-	P
Public Identity	3.1.2	M	M		-	P
Barring Indication	3.1.3	M	M		-	P
List of authorized visited network identifiers	3.1.4	M	-		-	P
Registration Status	3.2.1	M	-		-	T
S-CSCF Name	3.2.2	M	-		-	T
Diameter Client Address of S-CSCF	3.2.3	M	-		-	T
Diameter Server Address of HSS	3.2.4	-	M	-	C	T
RAND, XRES, CK, IK and AUTN	3.3.1	M	C		-	T
Server Capabilities	3.4.1	C	C		-	P
Subscribed Media Profile Identifier	3.5.1	C	C		-	P
Initial Filter Criteria	3.5.2	C	C		-	P
Shared iFC Set Identifier	3.5.5	C	C			P
Application Server Information	3.5.3	C	C	-	-	P
Service Indication	3.5.4	M	-		M	P
Primary Event Charging Function Name	3.7.1	C	C	-	-	P
Secondary Event Charging Function Name	3.7.2	C	C	-	-	P
Primary Charging Collection Function Name	3.7.3	M	M	-	-	P
Secondary Charging Collection Function Name	3.7.4	C	C	-	-	P
GsmSCF address for IM CSI	3.8.4	C	-		-	P
IM-SSF address for IM CSI	3.8.5	C	-		-	T
O-IM-CSI	3.8.1	C	-	C	-	P
VT-IM-CSI	3.8.2	C	-	C	-	P
D-IM-CSI	3.8.3	C	-	C	-	P
GsmSCF address for IM CSI	3.8.4	C	-	-	-	P
IM-SSF address for IM CSI	3.8.5	C	-	-	-	T

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

CR-Form-v7.1

CHANGE REQUEST⌘ **23.008 CR 137** ⌘ rev **-** ⌘ Current version: **6.3.0** ⌘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:	⌘ Subscribed Media Profile Identifier		
Source:	⌘ CN4		
Work item code:	⌘ IMS2	Date:	⌘ 07/09/2004
Category:	⌘ F	Release:	⌘ Rel-6
	Use <i>one</i> of the following categories:		Use <i>one</i> of the following releases:
	F (correction)	R96 (Release 1996)	Ph2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R97 (Release 1997)	Rel-4 (Release 4)
	B (addition of feature),	R98 (Release 1998)	Rel-5 (Release 5)
	C (functional modification of feature)	R99 (Release 1999)	Rel-6 (Release 6)
	D (editorial modification)	Rel-7 (Release 7)	
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		

Reason for change:	⌘ The Subscribed Media Profile Identifier is data related to Core Network Services Authorization
Summary of change:	⌘ Move the sub-section for Subscribed Media Profile Identifier from chapter 3.5 to chapter 3.6
Consequences if not approved:	⌘ incorrect chapter structure

Clauses affected:	⌘ 3.5, 3.6, 5.3											
Other specs affected:	⌘	<table border="1"><tr><td>Y</td><td>N</td></tr><tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr></table>	Y	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	⌘
	Y	N										
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
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3.5 Data related to Application and service triggers

For definition and handling of these data see 3GPP TS 23.218 [53].

3.5.1 ~~Void~~Subscribed Media Profile Identifier

~~The Subscribed Media Profile Identifier identifies a set of session description parameters that the subscriber is authorized to request. The translation from the Profile Identifier to the set of subscribed media is performed in the S-CSCF based on operator configuration.~~

~~The Subscribed Media Profile Identifier is permanent data stor~~

~~Subscribed Media Profile Identifier 3.5.1 G G - P~~
~~ed in the HSS and in the S-CSCF.~~

3.5.2 Initial Filter Criteria

A set of Initial Filter Criteria are stored for each user, for each application or service that the user request may invoke. The relevant service points of interest are defined in 3GPP TS 23.218 [53] subclause 5.2.

Each set of filter criteria includes the Application Server Address, AS priority, Default Handling, Subscribed Media, Trigger Points and Optional Service Information.

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Service Indication identifies exactly one set of service related transparent data (see 3GPP TS 29.328 [54]), which is stored in an HSS in an operator network. It is defined in 3GPP TS 29.328 [54].

The Service Indication is permanent subscriber data and is stored in the HSS and one or more ASs.

3.6 Data related to Core Network Services Authorization

3.6.1 Subscribed Media Profile Identifier

The Subscribed Media Profile Identifier identifies a set of session description parameters that the subscriber is authorized to request. The translation from the Profile Identifier to the set of subscribed media is performed in the S-CSCF based on operator configuration.

The Subscribed Media Profile Identifier is permanent data stored in the HSS and in the S-CSCF.

~~This is FFS.~~

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

5.3 IP Multimedia Service Data Storage

Table 5.3: Overview of data used for IP Multimedia services

PARAMETER	Subclause	HSS	S-CSCF	IM-SSF	AS	TYPE
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Registration Status	3.2.1	M	-		-	T
S-CSCF Name	3.2.2	M	-		-	T
Diameter Client Address of S-CSCF	3.2.3	M	-		-	T
Diameter Server Address of HSS	3.2.4	-	M	-	C	T
RAND, XRES, CK, IK and AUTN	3.3.1	M	C		-	T
Server Capabilities	3.4.1	C	C		-	P
Subscribed Media Profile Identifier	3.6.1	C	C		-	P
Initial Filter Criteria	3.5.2	C	C		-	P
Application Server Information	3.5.3	C	C	-	-	P
Service Indication	3.5.4	M	-		M	P
Primary Event Charging Function Name	3.7.1	C	C	-	-	P
Secondary Event Charging Function Name	3.7.2	C	C	-	-	P
Primary Charging Collection Function Name	3.7.3	M	M	-	-	P
Secondary Charging Collection Function Name	3.7.4	C	C	-	-	P
GsmSCF address for IM CSI	3.8.4	C	-		-	P
IM-SSF address for IM CSI	3.8.5	C	-		-	T
O-IM-CSI	3.8.1	C	-	C	-	P
VT-IM-CSI	3.8.2	C	-	C	-	P
D-IM-CSI	3.8.3	C	-	C	-	P
GsmSCF address for IM CSI	3.8.4	C	-	-	-	P
IM-SSF address for IM CSI	3.8.5	C	-	-	-	T