# TSGS#22(03)0659

Source:TSG SA WG2Title:CRs on 23.240 (GUP Stage 2)Agenda Item:7.2.3

The following Change Requests (CRs) have been approved by TSG SA WG2 and are requested to be approved by TSG SA plenary #22. Note: the source of all these CRs is now S2, even if the name of the originating company(ies) is still reflected on the cover page of all the attached CRs.

Tdoc #	Title	Spec	CR #	cat	Versi	REL	WI	S2	Clauses affected
					on in			meeting	
<u>S2-034167</u>	Selection of the GUP Server mode of	23.240	007r1	F	6.1.0	6	GUP	S2-36	4.2.1
	operation								
<u>S2-034125</u>	Notification Reference	23.240	009r1	F	6.1.0	6	GUP	S2-36	4.3.5, 4.4.5
<u>S2-034282</u>	Subscribe Operation, Subscription	23.240	010r2	В	6.1.0	6	GUP	S2-36	4.3.5, 4.4.5
	Status								
<u>S2-034299</u>	GUP information model	23.240	011r1	С	6.1.0	6	GUP	S2-36	5
	improvement								
<u>S2-034290</u>	GUP Annex B terminal Capability	23.240	012r1	F	6.1.0	6	GUP	S2-36	Annex B
	negotiation for IMS								

		CHANG	E REQ	UEST			CR-Form-v7
ж	23.240	CR <mark>007</mark>	жrev	<b>1</b> <sup>#</sup>	Current vers	<sup>ion:</sup> 6.1.0	ж
For <u>HELP</u> o	n using this for	m, see bottom of th	nis page or	look at the	e pop-up text	over the X sy	mbols.
Proposed chan	e affects: U	JICC apps೫	ME	] Radio Ad	ccess Networ	k Core Ne	etwork X
Title:	策 Selection	of the GUP Server	mode of o	peration			
Source:	ж <mark>Nokia</mark>						
Work item code	ដ GUP				<i>Date:</i> ೫	19/11/2003	
Category:	F (con A (con B (add C (fun D (edia Detailed exp	the following categori rection) responds to a correct lition of feature), ctional modification of torial modification) planations of the abov 3GPP <u>TR 21.900</u> .	ion in an eai f feature)		2	Rel-6 the following rela (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6)	
Reason for cha		ction of the GUP Se ission and is some					aroused

Reason for change: A	discussion and is somewhat vaguely specified in the current TS 23.240 specification.
Summary of change: ¥	It is clarified how the GUP Server mode of operation is indicated, requested and selected.
Consequences if # not approved:	3 Unclarity in stage 3 Rg reference point definition and GUP Server implementation.
Clauses affected: #	4.2.1
Other specs        ₩ affected:	YNXOther core specifications#XTest specificationsXO&M Specifications
Other comments: #	

- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

# 4.2.1 GUP Server

The GUP Server is a functional entity providing a single point of access to the Generic User Profile data of a particular subscriber. The reference architecture does not specify or limit the physical location of the GUP Server enabling flexibility in the implementations.

The GUP Server includes the following main functionalities:

- Single point of access for reading and managing generic user profile data of a particular subscriber.
- Location of Profile Components.
- Authentication of profile requests.
- Authorization of profile requests.
- Synchronization of Profile Components.

The GUP Server <u>may shall</u> support two modes of operation:

- **Proxy mode** (see figure 4.3). The Application requests user related data located in the GUP Data Repositories from the GUP Server. After taking care of needed actions specified for the GUP Server (and depending on the type of the request) the GUP Server makes requests to the corresponding GUP Data Repositories and receives responses from them. Finally the Application gets a response to the original request from the GUP Server. Depending on the type of the request also possible subsequent responses are delivered through the GUP Server.
- **Redirect mode** (see figure 4.4). The Application requests user related data located in the GUP Data Repositories from the GUP Server. After taking care of needed actions specified for the GUP Server (and depending on the type of the request) the GUP Server returns to the Application the information (e.g. address of GUP Data Repository(s)) to allow the Application to request the information from the GUP Data Repositories. The Application then directly requests the information from the GUP Data Repositories.

The Proxy mode is the default mode of operation. Redirect capability and preference for the applied mode may be indicated by the application with the Requestor data parameter when accessing the GUP Server. The GUP Server decides which mode is selected for the different requests. In addition to the Requestor data parameter, the decision is based on the capabilities of the GUP Server and the related Repository Access Functions (RAF) as well as on the service configuration and policy data in the GUP Server related to the particular application. These service configuration and policy data are out of the scope of GUP standardisation. If the Redirect mode is not supported by the GUP Server the response is always sent according to the Proxy mode.

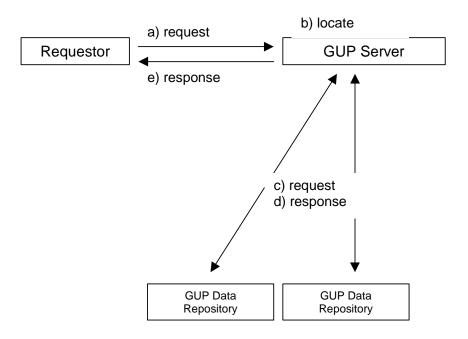


Figure 4.3: GUP Server acting as a Proxy Server.

			(	CHANGE	EREQ	UE	ST	1			CR-Form-v7
ж		23.240	CR	009	жrev	1	ж	Current vers	ion:	6.1.0	ж
For <u>HELP</u>	on us	sing this for	m, see	e bottom of thi	s page or	look	at the	e pop-up text	over	the ೫ syr	nbols.
Proposed cha	nge a	offects: l	JICC a	apps#	ME	Rad	dio A	ccess Networ	'k 📃	Core Ne	twork X
Title:	ж	Addition of	of Notif	ication Refere	ence to Su	bscri	be pı	ocedure			
Source:	Ħ	Ericsson									
Work item cod	<b>de:</b> Ж	GUP						Date: Ж	10/	10/2003	
Category:		F (corr A (corr B (add C (fun D (edit	rection) respon lition of ctional torial m blanatic	ds to a correctic feature), modification of odification) ons of the above	on in an eai feature)		elease	Release: ¥ Use <u>one</u> of 2 8) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	(GSN (Rele (Rele (Rele (Rele (Rele	ollowing rele A Phase 2) pase 1996) pase 1997) pase 1998) pase 1999) pase 4) pase 5) pase 6)	eases:
Reason for ch	ange	chan	ges in	ently specified GUP data, it o	does not s	send	any k	kind of call-ba	ick ad	ddress to v	

	notifications should be sent by the GUP server or by the repository.
Summary of change:	Notification reference is added as a new mandatory parameter into the Subscribe procedure and Subscribe to Data procedure. GUP server and GUP repositories will use this reference as a call-back address to send notifications to.
Consequences if not approved:	<b>#</b> GUP server and GUP repositories will not have a reliable call-back address for sending of notifications. They would have to use the address received in the underlying protocol which may not be reliable as it may change in the time between Subscription operation and sending of Notify.
L	
Clauses affected:	¥ 4.3.5, 4.4.5
	YN
Other specs affected:	X     Other core specifications     X       X     Test specifications     X       X     O&M Specifications
Other comments:	ж

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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**

## 4.3.5 Subscribe procedure

Subscribe procedure is used by the application to request notifications about changes in the GUP component data. The subscribed data are identified by the user identity and the data reference. Furthermore the application can identify which elements are to be monitored for changes if it is not interested in all changes. Data synchronization can be performed by Subscribe and Notify procedures. The GUP Server returns the identification of the subscription request to provide means for the application to link the notifications of Notify procedure to the related subscribe requests.

A filtering data parameter is defined to facilitate performance optimization. This may be left partly vendor/operator specific. The requestor shall provide the necessary data for authentication and authorization purposes (e.g. credentials, assertions and identifications).

The outcome of the procedure shall be provided in a separate response message. If the requestor data indicated that the application is able to receive redirect instructions, the GUP server may decide to return redirect instructions based on policies set by the operator in the GUP server. After this response the procedure is terminated without any other specified results or retained information in the GUP Server.

Parameter	Description	Use
Subscriber identity	Specifies the user identity with its type (e.g. SIP URI public ID).	Mandatory
Notification Reference	Specifies the call-back address of the Requestor. The GUP server shall send the notifications to this address.	<u>Mandatory</u>
Data references	Specifies which data are monitored for changes. The reference identifies both the component type and the possible deeper level data reference. Multiple references may be given. Any change within the referenced data structure causes a notification to be sent. If the parameter is absent, all modifications are notified.	Optional
Requestor data	Specifies the data related to the requestor. These data may be used as input in the authentication and authorization process. E.g. end user and application identification, credentials or privacy policy information.	Optional
Filter data	Specifies additional conditions for sending notifications to optimise the performance e.g. when immediate synchronization is not required. The parameter specifies also whether the initial data values are requested to be reported.	Optional

#### Table 4.11: Request data of Subscribe procedure

Table 4.12: Response data of Subscribe procedure	÷
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Parameter	Description	Use
Invoke	Contains the invoke identification assigned by the GUP	Mandatory (unless the request is
identification	Server for this request.	redirected or fails)
Redirection data	Specifies the redirection instructions and assertions.	Optional
Status	Indicates whether:	Mandatory (like the response itself)
	1. The procedure was carried out successfully,	
	2. The request was redirected, or	
	3. A failure was detected.	
	For the proxy mode 1 or 3 can be indicated. For the	
	redirect mode 2 or 3 can be indicated. The possible	
	failure is described in sufficient detail.	

## Next modified section

# 4.4.5 Subscribe To Data procedure

Subscribe To Data procedure is used by the application to request notifications about changes in the profile component data. The component is identified by the user identity and the component type. Furthermore the application can identify which elements are to be monitored for changes if it is not interested in all changes. Data synchronization can be performed by Subscribe To Data and Notify Data procedures. The RAF returns the identification of the subscription request to provide means for the application to link the notifications of Notify Data procedure to the related subscribe requests.

A filtering data parameter is defined to facilitate performance optimization. This may be left partly vendor/operator specific. The requestor shall provide the necessary data for authorization purposes (e.g. assertions and identifications).

Parameter	Description	Use
Subscriber identity	Specifies the user identity with its type (e.g. SIP URI public ID).	Mandatory
Notification Reference	Specifies the call-back address of the Requestor. The RAF shall send the notifications to this address.	<u>Mandatory</u>
Component type	Specifies the type of the component.	Mandatory
Data references	Specifies which data are monitored for changes. Multiple references may be given. Any change within the referenced data structure causes a notification to be sent. If the parameter is absent, all modifications are notified.	Optional
Requestor data	Specifies the data related to the requestor. These data may be used as input in the authorization process. E.g. end user and application identification. See subclause 4.4.9.	Optional
Filter data	Specifies additional conditions for sending notifications to optimise the performance e.g. when immediate synchronization is not required. The parameter specifies also whether the initial data values are requested to be reported.	Optional

#### Table 4.28: Request data of Subscribe To Data procedure

#### Table 4.29: Response data of Subscribe To Data procedure

## End of modified section

	CHANGE REQUES	CR-Form-v7
¥	23.240 CR 010	₭ Current version: <b>6.1.0</b> <sup>₭</sup>
For <u>HELP</u> or	using this form, see bottom of this page or look at	t the pop-up text over the X symbols.
Proposed chang	<i>affects:</i> UICC apps <b>೫</b> ME <mark></mark> Radic	O Access Network Core Network X
Title:	Subscribe Operation, Subscription Status	
Source:	Ericsson	
Work item code:	GUP	<b>Date:</b>
Category:	<ul> <li>B</li> <li>Use <u>one</u> of the following categories:</li> <li>F (correction)</li> <li>A (corresponds to a correction in an earlier rele</li> <li>B (addition of feature),</li> <li>C (functional modification of feature)</li> <li>D (editorial modification)</li> <li>Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>.</li> </ul>	Release: %Rel-6Use one 2of the following releases: 22(GSM Phase 2)ease)R96R97(Release 1996)R97(Release 1997)R98(Release 1998)R99(Release 1999)Rel-4(Release 4)Rel-5(Release 5)Rel-6(Release 6)
Reason for chan	e: # Currently there are no means specified by status of its own subscriptions to notificatio useful because it would allow the applicatio	ons. However, this function would be ons to get the information on it's own

	useful because it would allow the applications to get the information on it's own subscriptions in case the information is lost.
Summary of change:	# It is specified how an application can obtain the status of its own subscriptions to
	notifications.
Consequences if not approved:	# There would be no standard way for an application to get status of its own subscriptions to notifications.
-	
Clauses affected:	<b>光</b> 4.3.5, 4.4.5
	YN
Other specs affected:	#     X     Other core specifications     #       X     Test specifications     #
	X O&M Specifications
Other commontes	<u>م</u>
Other comments:	Hereit and the second

- 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

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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**

## 4.3.5 Subscribe procedure

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Subscribe procedure is used by the application to request notifications about changes in the GUP component data. The subscribed data are identified by the user identity and the data reference. Furthermore the application can identify which elements are to be monitored for changes if it is not interested in all changes. Data synchronization can be performed by Subscribe and Notify procedures. The GUP Server returns the identification of the subscription request to provide means for the application to link the notifications of Notify procedure to the related subscribe requests. <u>With Subscribe procedure an application can also request a list of all its subscriptions to notifications from the GUP Server. The GUP Server shall provide all the application's subscriptions to notifications in the response message.</u>

A filtering data parameter is defined to facilitate performance optimization. This may be left partly vendor/operator specific. The requestor shall provide the necessary data for authentication and authorization purposes (e.g. credentials, assertions and identifications).

The outcome of the procedure shall be provided in a separate response message.

Parameter	Description	Use
Subscriber identity	Specifies the user identity with its type (e.g. SIP URI public ID). This parameter may be absent only when List of	Conditional Mandatory
	subscriptions parameter is present, otherwise this parameter shall always be present.	
<u>List of</u> subscriptions	Indicates that the application requests the list of all its subscriptions from the GUP server.	<u>Optional</u>
Data references	Specifies which data are monitored for changes. The reference identifies both the component type and the possible deeper level data reference. Multiple references may be given. Any change within the referenced data structure causes a notification to be sent. If the parameter is absent, all modifications are notified.	Optional
Requestor data	Specifies the data related to the requestor. These data may be used as input in the authentication and authorization process. E.g. end user and application identification, credentials or privacy policy information.	Optional
Filter data	Specifies additional conditions for sending notifications to optimize the performance e.g. when immediate synchronization is not required. The parameter specifies also whether the initial data values are requested to be reported.	Optional

#### Table 4.11: Request data of Subscribe procedure

#### Table 4.12: Response data of Subscribe procedure

Parameter	Description	Use
Invoke	Contains the invoke identification assigned by the GUP	Mandatory
identifications	Server for this request.	
	When the application has requested the list of all its	
	subscriptions, this parameter will contain all the invoke	
	identifications assigned by the GUP Server to the	
	application.	
Status	Indicates whether the procedure was carried out	Mandatory (like the response itself)
	successfully or whether some failure was detected.	
	The possible errors are described in sufficient detail.	

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## Next modified section

# 4.4.5 Subscribe To Data procedure

Subscribe To Data procedure is used by the application to request notifications about changes in the profile component data. The component is identified by the user identity and the component type. Furthermore the application can identify which elements are to be monitored for changes if it is not interested in all changes. Data synchronization can be performed by Subscribe To Data and Notify Data procedures. The RAF returns the identification of the subscription request to provide means for the application to link the notifications of Notify Data procedure to the related subscribe requests. With Subscribe To Data procedure an application can also request a list of all its subscriptions to notifications from the RAF. The RAF shall provide all the application's subscriptions to notifications in the response message.

A filtering data parameter is defined to facilitate performance optimization. This may be left partly vendor/operator specific. The requestor shall provide the necessary data for authorization purposes (e.g. assertions and identifications).

Parameter	Description	Use
Subscriber identity	Specifies the user identity with its type (e.g. SIP URI public ID).	Conditional Mandatory
	This parameter may be absent only when List of	
	subscriptions parameter is present, otherwise this	
	parameter shall always be present.	
List of	Indicates that the application requests the list of all its	Optional
subscriptions	subscriptions from the RAF.	
Component type	Specifies the type of the component.	Mandatory
Data references	Specifies which data are monitored for changes.	Optional
	Multiple references may be given. Any change within	
	the referenced data structure causes a notification to	
	be sent. If the parameter is absent, all modifications	
	are notified.	
Requestor data	Specifies the data related to the requestor. These data	Optional
	may be used as input in the authorization process. E.g.	
	end user and application identification. See subclause	
	4.4.9.	
Filter data	Specifies additional conditions for sending notifications	Optional
	to optimize the performance e.g. when immediate	
	synchronization is not required. The parameter	
	specifies also whether the initial data values are	
	requested to be reported.	

#### Table 4.28: Request data of Subscribe To Data procedure

Table 4.29: Resp	onse data of Subscribe	To Data procedure
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Parameter	Description	Use	
Invoke	Contains the invoke identification assigned by the RAF	Mandatory	
identifications	for this request.		
	When the application has requested the list of all its		
	subscriptions, this parameter will contain all the invoke		
	identifications assigned by the RAF to the application.		
Status	Indicates whether the procedure was carried out	Mandatory (like the response itself)	
	successfully or whether some failure was detected.		
	The possible errors are described in sufficient detail.		

End of modified section

¥	23.240 CR 011 <sup>#</sup> 1 <sup>#</sup> (	Current versi	on: <mark>6.1.0</mark> <sup>ж</sup>				
For <u>HELP</u> o	For <b><u>HELP</u></b> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.						
Proposed change affects: UICC apps# ME Radio Access Network Core Network X							
Title:	# GUP information model improvement						
Source:	육 Nokia						
Work item code	# GUP	Date: ೫	27/11/2003				
Category:	<ul> <li>C Use <u>one</u> of the following categories:</li> <li>F (correction)</li> <li>A (corresponds to a correction in an earlier release)</li> <li>B (addition of feature),</li> <li>C (functional modification of feature)</li> <li>D (editorial modification)</li> <li>Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>.</li> </ul>	2 R96 R97 R98 R99 Rel-4 Rel-5	Rel-6 he following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 4) (Release 5) (Release 6)				

Reason for change: ೫	The current information model does not show how other reusable components may be included in a component.				
Summary of change: ₩	A loop arrow to component itself is added to the information model figure. The text is modified accordingly with some refinitions of the component identification definitions in line with the other parts of this specification. Furthermore the example figure and the text desciptions are modified to show also the case of a component referencing another component.				
Consequences if # not approved:	It is left unclear how reusable components may be specified and handled in GUP.				
Clauses affected: #	5				
Other specs #	Y N     X   Other core specifications     # 23.241, 29.240				
affected:	X Test specifications				
	X O&M Specifications				

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Other comments:

- 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 <a href="http://ftp.3gpp.org/specs/">http://ftp.3gpp.org/specs/</a> 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.

# 5 GUP information model

A Generic User Profile consists of a number of independent GUP Components. <u>However a GUP Component may</u> contain (i.e. reference) other GUP components e.g. to enable reuse of data.

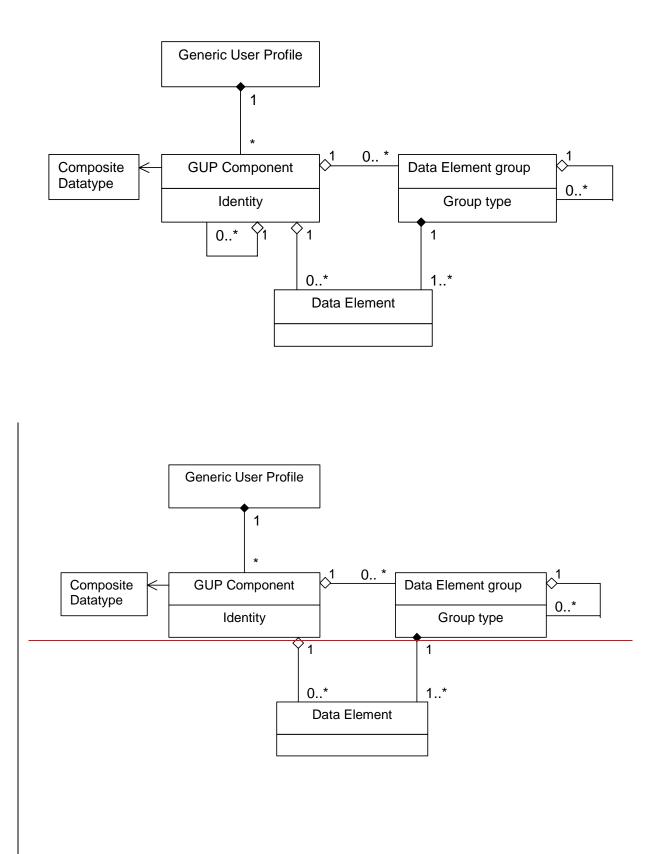
The GUP Component has a unique identity within the Generic User Profile. In addition to the component type the component identity contains either a subscriber identity or more generic identification depending on which kind of component is in question. A GUP Component, and it can be retrieved through one RAF, and it may consist of a number of GUP Components, Data Element Groups and/or Data Elements.

A GUP Component contains zero or more Data Element Groups. The Data Element Group contains indivisible Data Elements and/or Data Element Groups. The nested Data Elements Groups allow deeper hierarchical structures. The Data Element Group in the lowest hierarchical level contains one or more Data Elements. The Data Element Groups inside a GUP Component may be of the same or different types.

Alternatively the GUP Component may contain zero or more Data Elements without the Data Element Groups. A GUP component shall have at least one Data Element Group or Data Element.

A Composite Datatype is used to define the structure of the whole GUP Component. The structure includes definition about what kind of Data Element Groups and/or which Data Elements belong to the defined GUP Component as well as the data types and valid values of the data.

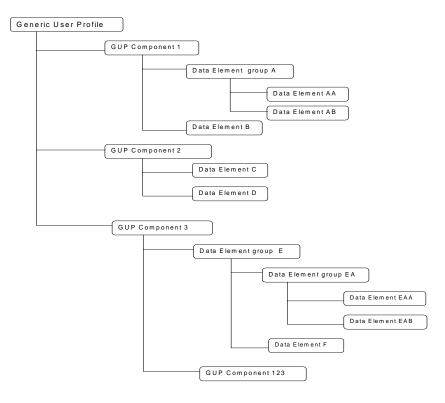
The UML Class Diagram below illustrates the basic concepts of the GUP Information Model.

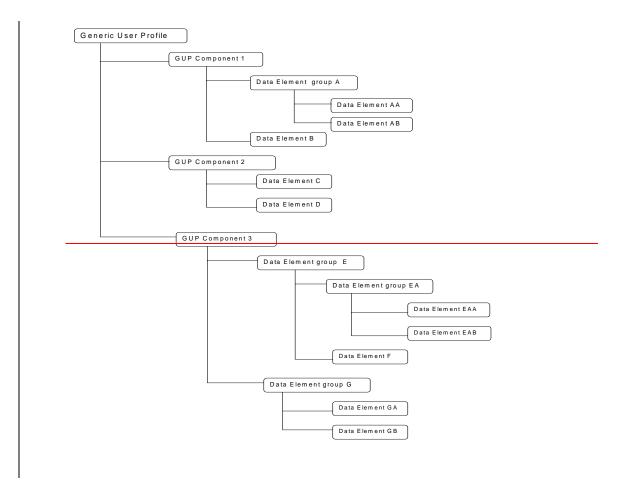


#### Figure 5.1: The basic concepts of GUP

Editor's note: Whether the authorization and privacy related enhancements have effect on the information model is FFS.

Figure 5.2 presents an example structure of Generic User Profile with the terms used in the UML Class Diagram. Note that the data structure may be also deeper than shown in the example figure, e.g., the Data Element Groups might consist of nested Data Element Groups.





#### Figure 5.2: Example structure of GUP information

One purpose of the example structure is to clarify the intended relation between the UML Class Diagram and the hierarchical structure of GUP in terms of XML. Use of XML fulfils the requirements for the architectural structure of the GUP information model.

Each Generic User Profile consists of one or several GUP Components depending on the nature of the user related data. GUP Components are independent XML documents. The Generic User Profile is thus formed of a number of XML documents.

Each GUP Component consists of <u>GUP Components</u>, Data Elements and/or Data Element Groups as defined in the component specific definitions. In XML terms the Data Elements are XML elements. The Data Element Group is a structured XML element with an arbitrarily deep data structure.

## 3GPP TSG-SA2 Meeting #36 USA, New York, 24-28 Nov 2003

## CR page 1

## **Tdoc #S2-034290**

ж	<b>23.240</b> CR 0012 <b># rev 1</b> <sup># Current version: 6.1.0 <sup>#</sup></sup>				
For <u>HELP</u> on us	ing this form, see bottom of this page or look at the pop-up text over the $\Re$ symbols.				
Proposed change a	ffects: UICC apps# ME Radio Access Network Core Network	Χ			
<i>Title:</i> ដ	GUP Annex B terminal Capability negotiation for IMS				
Source: ೫	Fujitsu				
Work item code: Ж	GUP Date: # 19/11/2003				
	FRelease: %Rel-6Use one of the following categories: F (correction)Use one of the following releases: 2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)B (addition of feature), C (functional modification of feature)R97(Release 1997)C (ditorial 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-5(Release 5) Rel-6				
Reason for change Summary of change	information to decide which terminal to contact or whether content needs to be customised. An example will be IMS Immediate messaging service. It shares most of the requirements for capability negotiation as MMS.				
Consequences if	#       IMS AS can not make use of the terminal capability information provided by				
not approved:	GUP.				
Clauses affected:	<sup></sup> Annex B				
Other specs affected:	Y       N         X       Other core specifications         X       Test specifications         X       O&M Specifications				
Other comments:	R				

#### How to create CRs using this form:

- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

# Annex B (informative): 3GPP Generic User Profile candidates

This table lists the Generic User Profile candidates grouped per GUP access. It gives for each data access, the supplier, the consumer and the data repository. The applied categorization of the data in the table does not imply similar GUP component structure.

GUP access	Supplier	Data repository	Description of the data	Consumer
Terminal related data for CS, PS, IMS	UE manager	UE-USIM/ISIM	Terminal capabilities of the terminal in use: - MS classmark 1, 2, 3 - User interface capability	MSC/VLR SGSN GGSN
			- Communication capabilities Data for initial configuration and/or reset of the ME	S-CSCF AS
			Backup data for recovery of the ME Configuration including service specific data	
General user data for CS & PS	UE manager	UE-USIM	USIM user data for CS&PS: - Language indicator - IMSI - Phone books - available services	MSC/VLR SGSN GGSN
2			- service capabilities	
General user data for IMS	UE manager AS manager	UE-USIM/ISIM AS	ISIM subscriber data for IMS: - Private & Public SIP URI of the user - Settings back up/restore - Preferences (e.g. languages) - Phone books - Buddy list - Available services - Service capabilities	UE-USIM/ISIM S-CSCF AS
MMS terminal		MMS-UA	- Active service profile	MMS server
capability negotiation	UE manager	MINIS-UA	MMS terminal capability information: - maximum supported size of an MM - maximum supported resolution of an	MINS Server
Ref 31.102, 23.140			<ul> <li>image</li> <li>list of supported media types and media formats (e.g. MIME types)</li> <li>list of supported character sets</li> <li>list of preferred languages</li> <li>maximum supported colour depth</li> <li>indication whether or not the recipient MMS User Agent supports streaming for the retrieval of MM contents</li> </ul>	
MMS VASP applications Ref 23.141	AS manager	AS	MMS application specific data: - Authorization - Confidentiality - Charging information	MMS server
1161 23.141			- Message distribution	
Privacy control settings of the user	AS manager	AS	Privacy control data of the user: - Privacy settings for standardized service like Presence - Privacy setting of non standardized services	UE-ISIM
PLMN specific user information	O&M	HSS	PLMN specific user information: - User addresses (e.g. MSISDNs, URLs) - WAP parameters (e.g. standard WAP gateway) - GPRS parameters - Preferred access technologies (e.g. UTRAN, GERAN, WLAN etc)	S-CSCF AS
Authorized and subscribed service information for CS & PS	O&M HSS-HLR	HSS-HLR	Authorized and subscribed service information: - Subscriber ID (IMSI, MSISDNs) - General subscription information - Subscription restrictions - Basic & Supplementary services - Charging plans - Operator determined barring data is FFS - SMS subscription - MMS subscription	MSC/VLR GMSC SGSN GGSN MMS server
CSE handling of user subscriptions for CS & PS	CSE	HSS-HLR	- Forwarding & barring information - CAMEL subscription information	CSE

Authorized and subscribed service information for IMS	O&M	HSS	Authorized and subscribed service information: - IM Subscriber ID (Private User ID, Public ID) - Subscribed media - Billing policy - Initial filter criteria - Service keys & triggering aspects - Authorized services that the subscriber may subscribe to - Services the subscriber actually has subscribed to	S-CSCF AS
CAMEL services for IMS	O&M	HSS-HLR	CAMEL subscription information for IMS	IM-SSF