
Source: SA1
Title: CR to 22.240 on Removal of erroneous use cases (Rel-6)
Document for: Approval
Agenda Item: 7.1.3

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers. Current	Vers New	SA1 Doc
SP-26	SP-040730	22.240	007	-	Rel-6	F	Removal of erroneous use cases	6.4.0	6.5.0	S1-040989

CHANGE REQUEST

22.240 CR 007 # rev - # Current version: 6.4.0

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:	# Removal of erroneous use cases		
Source:	# SA1 (Nokia)		
Work item code:	# GUP	Date:	# 04/10/2004
Category:	# F	Release:	# Rel-6
	<i>Use <u>one</u> 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 <u>one</u> 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:	# TSG-SA #25 approved CR 006 (SP-040507) on UE requirements corrections. It removes the requirement of storing GUP components in the terminal, however the related use cases in Annex A erroneously have not been removed.
Summary of change:	# This CR moves those use cases in Annex A in which GUP components are stored in the terminal, or which are related to UE management standardisation to Annex B. Annex B is described to contain use cases that are not currently in the scope of GUP stage1 but are still considered usefull information. The use case on 'Setting up a Subscription for a new customer' in Annex A is modified.
Consequences if not approved:	# Erroneous use cases for Generic User Profile remain as examples.

Clauses affected:	# Annex A, Annex B										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table> 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"/>		
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:	#										

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.

Annex A (informative): Example 3GPP Generic User Profile use cases

1. Setting up a Subscription for a new customer

- Precondition
 - A person has just purchased a new device, and requires a new subscription [data](#) to be initiated in the shop.
- Actions
 - ~~-The user preferences for services are established.~~
 - ~~Information about the terminal capabilities are received from the UE.~~
 - ~~-User Profile content is created for the Subscriber, and downloaded over the air, via local link or similar~~
 - [Subscription data is input by the shop personnel by means of a Subscription Management application.](#)
 - [Subscription Management application stores the data in Generic User Profile in the Home Network.](#)
- Post-condition
 - The user can leave the shop. Her [phone/device subscription](#) is ready to use. ~~Basic settings needed to start and run initial applications ready.~~

~~2. Initial Service Configuration (Bootstrap)~~

- ~~—Precondition~~
 - ~~-No settings made, user with a subscription~~
- ~~—Actions~~
 - ~~-Settings, partly based on user profile downloaded over the air, via local link or similar~~
 - ~~-The download initiated by the value added service provider, network operator, 3rd party or user~~
- ~~—User Data~~
 - ~~-Setting received could include basic connectivity configuration parameters and the user's security policy~~
- ~~—Post condition~~
 - ~~-The user's phone/device ready to use. Basic settings needed to start and run initial applications ready~~

~~3. Backup/Restore of User Profile Components stored in the UE~~

- ~~—Precondition~~
- ~~—Backup~~
 - ~~-The phone is configured, all the user preferences are set.~~
 - ~~-The settings include user profile parameters such as generic parameters, service personalisation parameters, user's security policy and other user preferences~~
- ~~—Restore~~
 - ~~-The phone's initial configuration enables download of configuration and user data at least via local link.~~

~~-A backup of phone configuration and user preferences is available in the network.~~

~~—Actions~~

~~-The user wishes to backup or restore the current version, or parts of the current user profile to the network, or to another UE.~~

~~-The backup/restore is performed via local link or remotely towards the network~~

~~-The backup/restore can be initiated by the user, the value added service provider, 3rd parties or the network operator~~

~~—User Profile Storage~~

~~-Secure area of the (U)SIM or ME or retained in the network by the value added service provider. User private data is only stored in the network with the user permission.~~

~~4. Content Negotiation~~

~~—Precondition~~

~~-The user has set her preferences in the UE~~

~~-Terminal type capability information is stored in "internet"~~

~~—Actions~~

~~-The user initiates request for content. The request contains:~~

~~-User preference fetched from the UP~~

~~-Reference to the capability information is stored in "internet"~~

~~-Deviating capability information~~

~~-Returned content selected or tailored according to User preferences and capability information~~

25. Application Access to User Profile Data using OSA (Pull Scenario)

- Precondition
 - The application is registered with the OSA framework
 - The application is authorised to access the user profile management Service Control Function and use methods which permit read/write data in user profiles
- Actions
 - The application uses OSA to read/write data in the user profile of the user
 - The network provides the requested data or modifies the data as requested
- Post-condition
 - Consistency of the user profile data

36. Notification of user subscription to an HE-VASP application using OSA (Push Scenario)

- Precondition
 - The OSA application from the HE-VASP is registered with the OSA framework
 - The OSA application is authorized to receive subscription/unsubscription notifications

- The OSA application has subscribed to the notification permitting to it to know when new users have subscribed to the service implemented by the OSA application
- Actions
 - A new user subscribes to the service implemented by the OSA application
 - The Home Environment notifies the OSA application about a new subscription and provides it with relevant information (e.g. identity of the user)
 - Possibly the OSA application provides the home environment with a link (e.g. URL) to a location where the user can customize the service
- Post-conditions
 - The OSA application can now have access to home environment -owned user profile information for this user, provided that it is granted the related access rights
 - The user can customize service data for the service implemented by the OSA application

4.7. Customization of service specific data for a VHE service provided by a HE-VASP

- Preconditions
 - The user has a VHE subscription
 - The user is subscribed to the service provided by the HE-VASP
 - There is a link from the user Personal Service Environment (PSE) to the HE-VASP for service customization
 - The user has access to her PSE and has successfully been logged to it
- Actions
 - The user accesses her PSE and decides to customize the service provided by the HE-VASP
 - She transparently access a service customization interface provided by the HE-VASP (possibly via a hyperlink)
 - She defines/modifies service customization data, which are managed and stored by the HE-VASP
- Post-condition
 - Next time she uses the service, new customization data will be used

~~8. Terminal Management – Manual Helpdesk~~

~~–Precondition~~

~~-A user is complaining because her pocket web browser does not work. He calls the helpdesk~~

~~–Actions~~

~~-The UE capabilities are established by the helpdesk person~~

~~-A helpdesk person at an operator, value added service provider or enterprise verifies that the correct operating parameters are set on the device of a complaining user~~

~~–Post condition~~

~~-The user's is happy. The pocket web browser is running correctly~~

9. Terminal Management—Automated Self Fixing~~—Precondition~~~~-A software agent on the user's device identifies an error.~~~~—Actions~~~~-It contacts the helpdesk software entity to fix the problem.~~~~-The UE capabilities are established by the automated self-fixing solution.~~~~-The self-fixing solution correctly diagnoses the error and provisions a bug fix.~~~~—Post condition~~~~-The user's device software executes correctly (and is happy)~~**10. Automatic Access Selection based on preferred list**~~—Precondition~~~~-The UE shall be able to support automatic access technologies selection (i.e. without user intervention).~~~~-The user has set her preferences in the UE and enabled automatic access technologies selection.~~~~-A list of preferred access technologies capabilities information is stored in "internet"~~~~-The access technologies are authorized.~~~~—Actions~~~~-The user equipment initiates request for selected access technology. The request contains:~~~~-User preferences fetched from the UP~~~~-Reference to the access technology capabilities information is stored in "internet"~~~~-The preferred access technology is selected.~~~~—Post condition~~~~-The preferred access technology is selected based on the order of precedence defined in a list of access technologies on the UE. The switch to a less preferred access technology, in case the most preferred is not available, takes place without user intervention.~~**11. Multiple Access Technology Negotiation**~~—Precondition~~~~-The user has set her preferences in the UE and enabled access selection.~~~~-Terminal type capability information is stored in "internet"~~~~-The access technologies are authorized~~~~-The user has access and connection with one ongoing application~~~~—Actions~~~~-The (Multi-mode) terminal initiates request for another access technologies.~~~~-The terminal chooses the most appropriate access form based on the UP and/or the sessions in progress demand of service quality.~~

~~-Returned access form selected according to User preferences and capability information.~~

~~-Post condition~~

~~-Change of access technology without interrupting any session(s) to/from that host (context transfer).~~

~~-The old access connection end.~~

- The user and the terminal are connected via the new access (i.e. WLAN) with the same user identity, without having to re-authenticate

Annex B (informative): Additional Information

Note: The following use cases are currently not in the scope of 3GPP Generic User Profile Stage 1 but they are still considered to be useful information (e.g. for future work) and therefore included in this Annex.

1. Setting up a Subscription for a new customer

- Precondition

- A person has just purchased a new device, and requires a new subscription to be initiated in the shop.

- Actions

- The user preferences for services are established.
- Information about the terminal capabilities are received from the UE.
- User Profile content is created for the Subscriber, and downloaded over the air, via local link or similar

- Post-condition

- The user can leave the shop. Her phone/device is ready to use. Basic settings needed to start and run initial applications ready.

2. Initial Service Configuration (Bootstrap)

- Precondition

- No settings made, user with a subscription

- Actions

- Settings, partly based on user profile downloaded over the air, via local link or similar
- The download initiated by the value added service provider, network operator, 3rd party or user

- User Data

- Setting received could include basic connectivity configuration parameters and the user's security policy

- Post-condition

- The user's phone/device ready to use. Basic settings needed to start and run initial applications ready

3. Backup/Restore of User Profile Components stored in the UE

- Precondition

- Backup

- The phone is configured, all the user preferences are set.
- The settings include user profile parameters such as generic parameters, service personalisation parameters, user's security policy and other user preferences

- Restore

- The phone's initial configuration enables download of configuration and user data at least via local link.
- A backup of phone configuration and user preferences is available in the network.

- Actions

- The user wishes to backup or restore the current version, or parts of the current user profile to the network, or to another UE.
- The backup/restore is performed via local link or remotely towards the network
- The backup/restore can be initiated by the user, the value added service provider, 3rd parties or the network operator

- User Profile Storage

- Secure area of the (U)SIM or ME or retained in the network by the value added service provider. User private data is only stored in the network with the user permission.

4. Content Negotiation

- Precondition

- The user has set her preferences in the UE
- Terminal type capability information is stored in "internet"

- Actions

- The user initiates request for content. The request contains:
 - User preference fetched from the UP
 - Reference to the capability information is stored in "internet"
 - Deviating capability information
- Returned content selected or tailored according to User preferences and capability information

5. Terminal Management – Manual Helpdesk

- Precondition

- A user is complaining because her pocket web browser does not work. He calls the helpdesk

- Actions

- The UE capabilities are established by the helpdesk person
- A helpdesk person at an operator, value added service provider or enterprise verifies that the correct operating parameters are set on the device of a complaining user

- Post-condition

- The user's is happy. The pocket web browser is running correctly

6. Terminal Management – Automated Self Fixing

- Precondition

- A software agent on the user's device identifies an error.

- Actions

- It contacts the helpdesk software entity to fix the problem.
- The UE capabilities are established by the automated self-fixing solution.

- The self-fixing solution correctly diagnoses the error and provisions a bug fix.

- Post-condition

- The user's device software executes correctly (and is happy)

7. Automatic Access Selection based on preferred list

- Precondition

- The UE shall be able to support automatic access technologies selection (i.e. without user intervention).
- The user has set her preferences in the UE and enabled automatic access technologies selection.
- A list of preferred access technologies capabilities information is stored in "internet"
- The access technologies are authorized.

- Actions

- The user equipment initiates request for selected access technology. The request contains:
 - User preferences fetched from the UP
 - Reference to the access technology capabilities information is stored in "internet"
- The preferred access technology is selected.

- Post-condition

- The preferred access technology is selected based on the order of precedence defined in a list of access technologies on the UE. The switch to a less preferred access technology, in case the most preferred is not available, takes place without user intervention.

8. Multiple Access Technology Negotiation

- Precondition

- The user has set her preferences in the UE and enabled access selection.
- Terminal type capability information is stored in "internet"
- The access technologies are authorized
- The user has access and connection with one ongoing application

- Actions

- The (Multi-mode) terminal initiates request for another access technologies.
- The terminal chooses the most appropriate access form based on the UP and/or the sessions in progress demand of service quality.
- Returned access form selected according to User preferences and capability information.

- Post-condition

- Change of access technology without interrupting any session(s) to/from that host (context transfer).
- The old access connection end.
- The user and the terminal are connected via the new access (i.e. WLAN) with the same user identity, without having to re-authenticate.

Annex ~~B~~-C (informative): Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

3GPP TS 21.133: "3G Security; Security Threats and Requirements".

3GPP TS 22.097: "Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1".

3GPP TR 22.121: "The Virtual Home Environment".

Annex ~~E~~D (informative): Change history

Version	Date	Comment
0.1.0	Sep 2001	Initial Draft at Sophia Antipolis (UP#3), September 11 th -13 th 2001
0.1.1	Oct 2001	Cleaned-up version of document for UP#4, based on editorial changes agreed in UP#3
0.3.0	Nov 2001	Includes agreed changes from Stuttgart User Profile ad-hoc , October 10 th – 12 th 2001
0.4.0	Jan 2002	Structure from S1-020195 adopted
0.5.0	Jan 2002	Agreed changes made after SA1 GUP SWG adhoc, Phoenix 14-18 Jan 2002. Requirements enumerated, structure agreed.
0.6.0	Feb 2002	Changes made to Stage 1 during SA1#15 Saalfelden. Mostly changes to ensure common vocabulary. Section 4.2 added to provide conceptual understanding of GUP. Section 6.1 (Network Requirements expanded)
0.7.0	March 2002	Changes made during SA1 GUP SWG held in Sophia Antipolis
0.8.0	April 2002	Changes made during SA1#16 Victoria. Changes made to vocabulary and sections 5.
0.9.0	June 2002	Changes made during SA1 GUP SWG meeting held in Vienna 5 th – 7 th June 2002. Changes made to section 4,
0.10.0	July 2002	Changes made during SA1 GUP SWG meeting held in Rome 10 th -11 th July 2002.
1.0.0	September 2002	Changes made during SA1#17 Durango. Presented for information at SA#17.
1.1.0	October 2002	Changes made during S1 GUP SWG meeting held in Beijing 16 th -17 th October 2002.
1.2.0	November 2002	Changes made during S1 GUP SWG meeting held in Busan 11 th -15 th November 2002.
1.3.0	January 2003	Changes made during SA1 #19 San Francisco 20-24 January 2003.
2.0.0	March 2003	Brought up to version 2.0.0 for presentation to SA #19.
6.0.0	March 2003	Approved at SA #19

Change history											
TSG SA#	SA Doc.	SA1 Doc	Spec	CR	Rev	Rel	Cat	Subject/Comment	Old	New	WI
SP-19	SP-030036		22.240			Rel-6		Approved at SA #19	2.0.0	6.0.0	
SP-21	SP-030469	S1-030965	22.240	001		Rel-6	F	Clarifications for section 7 of 22.240	6.0.0	6.1.0	GUP
SP-22	SP-030707	S1-031256	22.240	002	-	Rel-6	F	Clarifications on general service requirements and data description requirements	6.1.0	6.2.0	GUP
SP-22	SP-030707	S1-031257	22.240	003	-	Rel-6	F	Clarifications GUP data access and administration	6.1.0	6.2.0	GUP
SP-22	SP-030707	S1-031258	22.240	004	-	Rel-6	F	Clarifications on GUP synchronisation	6.1.0	6.2.0	GUP
SP-23	SP-040095	S1-040202	22.240	005	-	Rel-6	F	GUP UE Requirements	6.2.0	6.3.0	GUP
SP-25	SP-040507	S1-040683	22.240	006	-	Rel-6	F	GUP, UE requirements corrections	6.3.0	6.4.0	GUP