Technical Specification Group Services and System Aspects
Meeting #17, Biarritz, France, 9-12 September 2002

TSGS#17(02)0551

Source: **SA1**

Title: **Release 5/6 CRs to 22.101 on Clarifications on ISIM requirements Rel 5**

Document for: **Approval**

Agenda Item: **7.1.3**

SA Doc	Spec	CR	Rev	Phase	Cat	Subject	Old Vers	New Vers	SA1 Doc
SP-020551	22.101	101		Rel-5	F	Clarifications on ISIM requirements Rel 5	5.6.0	5.7.0	S1-021836
SP-020551	22.101	102		Rel-6	A	Clarifications on ISIM requirements Rel 5	6.0.0	6.1.0	S1-021837

3GPP TSG-SA-1 Meeting #17
Durango, USA, 12-16 August 2002

Tdoc ⌘S1-021836

CR-Form-v7

CHANGE REQUEST

⌘ **22.101** **CR** **101** ⌘ **rev** **-** ⌘ Current version: **5.6.0** ⌘

*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⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Clarifications on ISIM requirements Rel 5
Source:	⌘	SA1 (IMS SWG)
Work item code:	⌘	IMSM-CR
Date:	⌘	29/07/2002
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one 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 one of the following releases:

2	*(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)*

Reason for change:	⌘	It has been commonly understood that multiple ISIM can reside on a UICC. The current version of 22.101, however does not describe this, nor how the UE handles it. Minor changes to other areas same chapter.
Summary of change:	⌘	Addition of a section describing the case of multiple ISIM on a UICC.
Consequences if not approved:	⌘	The specifications do not reflect the T3 stage 3 specifications on IMS services and ISIM support.

Clauses affected:	⌘	13, 13.1.6 (addition)

	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:
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.

13 UICC, USIM, ISIM and Terminal

13.1.4 Multiple USIMs per UICC

The ~~The standard~~3GPP system shall support more than one USIM per UICC even when those USIMs are associated with different home environments. Only one of the USIMs or the SIM may~~shall~~ be active at a given time. While the UE is in idle mode, it shall be possible for the user to select/reselect one USIM application amongst those available on the UICC. At switch on, the Last Active USIM shall be automatically selected. The Last Active USIM shall be stored on the UICC. By default if there is no Last Active USIM defined in the UICC, the user shall be able to select the active USIM amongst those available on the UICC.

The 3GPP system~~standard~~ shall allow ~~must not prevent~~ the coexistence of USIM applications, each associated with different home environments on the same UICC, so long as the security problems which arise from such a coexistence are solved.

13.1.5 The ISIM

Access to the IMS services shall be possible using an ISIM application.

The ISIM shall be sufficient for providing the necessary~~necessecary~~ security features for the IMS and IMS only.

The ISIM shall reside on a UICC. ISIM specific information shall be protected against unauthorised access or alteration.

It shall be possible to update ISIM specific information via the air interface, in a secure manner.

In Rel5 the ISIM application shall require the presence of a USIM application on the same UICC.

13.1.6 Multiple ISIMs per UICC

The 3GPP system shall support more than one ISIM per UICC even when those ISIMs are associated with IMS of different home environments. No more than one of the ISIMs may be active at a given time. It shall be possible for the user to select/reselect one ISIM application amongst those available on the UICC. At switch on, the Last Active ISIM shall be automatically selected. The Last Active ISIM shall be stored on the UICC.

The 3GPP system shall allow the coexistence of ISIM applications, each associated with different IMS on the same UICC, so long as the security problems, which arise from such coexistence, are solved.

13.2.1 The UICC and Applications other than the USIM

It shall be possible for the UICC to host other applications in addition to the USIM, see figure 3. Service providers, subscribers or users may need to establish additional data or processes on the UICC. Each application on an UICC shall reside in its own domain (physical or logical). It shall be possible to manage each application on the card separately. The security and operation of an application in any domain shall not be compromised by an application running in a different domain. Applications may need to use their own security mechanisms which are separate to those specified by 3GPP e.g. electronic commerce applications.

Examples of other UICC applications are: ISIM~~USIM~~, off-line user applications like UPT, electronic banking, credit service, etc.

Applications should be able to share some information such as a common address book.

It shall be possible to address applications, which reside on the UICC, via the air interface.

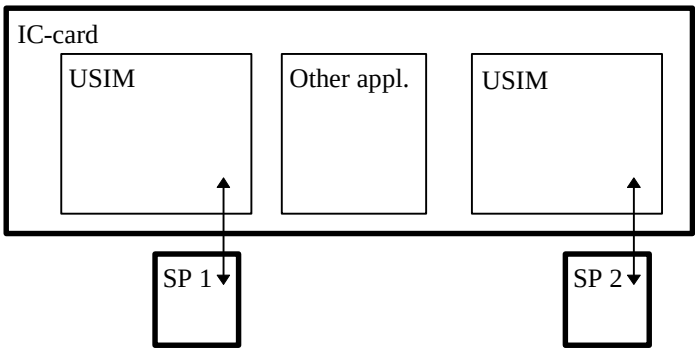

Figure 3 Example of a Multifunction UICC

3GPP TSG-SA-1 Meeting #17
Durango, USA, 12-16 August 2002

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CHANGE REQUEST

⌘ **22.101** **CR** **102** ⌘ **rev** **-** ⌘ Current version: **6.0.0** ⌘

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Proposed change affects: UICC apps⌘ [X] ME [X] Radio Access Network [ ] Core Network [ ]

Title:	⌘	Clarifications on ISIM requirements Rel 6
Source:	⌘	SA1 (IMS SWG)
Work item code:	⌘	IMSM-CR
Date:	⌘	29/07/2002
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one 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)*
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Use one of the following releases:

2	*(GSM Phase 2)*
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Reason for change:	⌘	It has been commonly understood that multiple ISIM can reside on a UICC. The current version of 22.101, however does not describe this, nor how the UE handles it.
Summary of change:	⌘	Addition of a section describing the case of multiple ISIM on a UICC.
Consequences if not approved:	⌘	The specifications do not reflect the commonly understood requirements on IMS services and ISIM support.

Clauses affected:	⌘	13.1.6 (addition)

		Y	N			
Other specs affected:	⌘	X		Other core specifications	⌘	31.103
				Test specifications		
				O&M Specifications		

Other comments:	⌘	

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13 UICC, USIM, ISIM and Terminal

This clause defines the functional characteristics and requirements of the User Service Identity Module (USIM) and ISIM (IM Services Identity Module). The USIM/ISIM are applications residing on a UICC.

13.1 The USIM/ISIM and User Profiles

13.1.1 The USIM

Every USIM shall have a unique identity and shall be associated with one and only one home environment.

It shall be possible for a home environment to uniquely identify a user by the USIM.

The USIM shall be used to provide security features.

For access to services, provided by PS or CS CN domains, a valid USIM shall be required.

The USIM shall be able to support SIM Application Toolkit as specified in 3GPP TS 22.038 [3].

The USIM shall reside on a UICC, 3GPP specifications shall adopt both of the GSM SIM card physical formats. Other formats may also be supported. USIM specific information shall be protected against unauthorised access or alteration.

It shall be possible to update USIM specific information via the air interface, in a secure manner.

Access to the IMS services shall be possible using 3GPP release 99 and release 4 UICCs.

13.1.2 User Profiles

It shall be possible for a user to be associated with one or a number of user profiles, which the user can select and activate on a per call basis. The user profile contains information which may be used to personalise services for the user.

It shall be possible for one or more user profiles associated with the same user to be active simultaneously so that the user may make or receive calls associated with different profiles simultaneously. Activation of profiles shall be done in a secure manner, for example with the use of a PIN.

For terminating calls the correct profile shall be indicated by the user address used (e.g. MSISDN), each profile will have at least one unique user address associated with it. For originating calls the user shall be able to choose from the available profiles, the appropriate one for the call. A profile identity will need to be associated with the call for accounting and billing purposes. User profile identities need not be standardised but a standardised means is required for indicating that a particular profile is being used.

Simultaneous use of the same user profile on multiple terminals for the same type of service shall not be allowed.

User profiles associated with different home environments shall not share the same user address.

13.1.3 UICC usage in GERAN only Terminals

In Release 5 and later, terminals supporting only GERAN shall support USIM.

13.1.4 Multiple USIMs per UICC

~~The standard~~3GPP system shall support more than one USIM per UICC even when those USIMs are associated with different home environments. Only one of the USIMs or the SIM ~~shall~~ may be active at a given time. While the UE is in idle mode, it shall be possible for the user to select/reselect one USIM application amongst those available on the UICC. At switch on, the Last Active USIM shall be automatically selected. The Last Active USIM shall be stored on the UICC. By default if there is no Last Active USIM defined in the UICC, the user shall be able to select the active USIM amongst those available on the UICC.

~~The standard must not prevent~~The 3GPP system shall allow the coexistence of USIM applications, each associated with different home environments on the same UICC, so long as the security problems which arise from such a coexistence are solved.

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The 3GPP system shall allow the coexistence of ISIM applications, each associated with different IMS on the same UICC, so long as the security problems, which arise from such coexistence, are solved.

13.2 The UICC

Access to services via 3GPP system with a single UICC shall be possible.

13.2.1 The UICC and Applications other than the USIM

It shall be possible for the UICC to host other applications in addition to the USIM, see figure 3. Service providers, subscribers or users may need to establish additional data or processes on the UICC. Each application on an UICC shall reside in its own domain (physical or logical). It shall be possible to manage each application on the card separately. The security and operation of an application in any domain shall not be compromised by an application running in a different domain. Applications may need to use their own security mechanisms which are separate to those specified by 3GPP e.g. electronic commerce applications.

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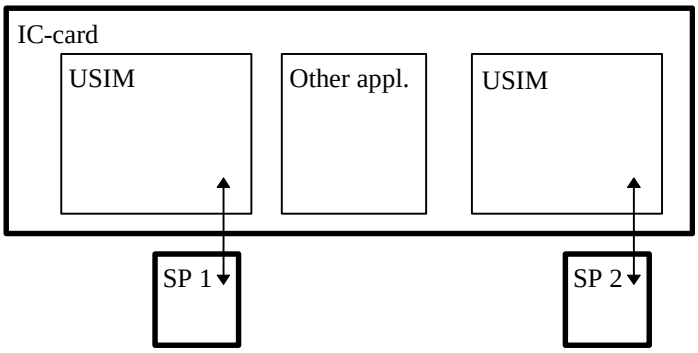

Figure 3 Example of a Multifunction UICC