TSG-SA #17 **SP-020625**
Biarritz, France, 9-12th September 2002

Work Item Description

Title: Study of subscriber and operator relationship in IMS and related ISIM requirements for Rel 6

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

3 Justification

For Rel 5 3GPP has developed and standardised the IMS as a means to provide IP based services. Part of the development includes a smart card application to be used for access to IMS, i.e. the ISIM application. In Rel –5 the ISIM is required to be co-located with a USIM on a UICC, due to architectural reasons (Go interface). Release 6 has already agreed work items on e.g. WLAN interworking that will change the architecture in Release 6. For releases beyond Rel –5 it could be envisioned to have ISIMs on a UICC without requirements for USIMs on the very same UICC~~. as well as having separate subscriptions for the IMS domain and e.g. the PS domain. Scenarios need to further elaborated and verified from subscriber and operator point of view. The requirements and technical feasibility of having separate subscriptions and having multiple ownership of core network elements (access network, gprs layer, IMS layer) as well as having a USIM and an ISIM on separate UICCs have not been clarified and hence a feasibility study is needed.~~ A technical study is needed to assess the different implications at system level as well as requirements and technical feasibility of the separation of USIMs and ISIMs, on separate independent UICC.

4 Objective

SA1 need to further develop and analyse a number of scenarios based on S1-0201773 as a basis for technical feasibility and service requirements, including the context of the scenarios.

The SA1 TR needs to look into the following :

- Operator possibility to implement ~~offer~~ only some of 3GPP system domains. (For example an IMS system separated from the PS domain and access network ~~(independent subscriptions).~~ What is the relationship between the AN/CN/IMS networks in this case?)
- Operator control of used network domains. ~~for one UICC subscription~~. For example operator to control allowed access network(s) for IMS ~~(linked subscriptions)~~ on an individual subscriber basis or as a general network policy~~)~~.

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- Alternative (e.g. WLAN) access implications.
- Access to IMS by one user with multiple devices simultaneously to IMS.
- UE functionality split (if any implications)

- Technical ~~I~~impact of card ownership ~~(Expected to be, mainly, a regulatory issue)~~. Can a card issued by an operator only be the property of one operator?

- Verify the compatibility of the possible system scenarios with 3GPP Scope.

- ~~Possibility of having two or more UICCs with ISIM & USIM (with empty field in either of them)~~

- Consider as an alternative the pros and cons of the solution available by using simply multiple UICCs each containing one or several USIMs and ISIMs (e.g. possibly with empty fields in any of them).

Below issues need to be described and requirements need to be clarified:

- Security
- Charging
- Privacy (in particular possible conflicts due to several subscriptions)
- Roaming
- Regulatory (e.g lawful interception) etc.

~~Possibility of having empty field for either ISIM or USIM in a UICC.~~

The SA2 shall look into technical feasibility and architecture implications of scenarios and requirements defined by SA1 and contact SA3 and SA5 for deeper technical understanding if necessary

- . Overall architecture implications shall consider also UICC implications (e.g. if it is appropriate to have several ISIMs on one UICC and possibility of having empty field for either ISIM or USIM in a UICC.?) and accordingly contact T3 for deeper technical understanding if necessary

5 Service Aspects

See ch 4.

6 MMI-Aspects

————Analyse aspects of user interaction when activating different applications (e.g. manually, automatically, PIN, NON-PIN) on the UICC

7 Charging Aspects

See ch 4.

8 Security Aspects

See ch 4.

9 Impacts

Affects:	UICC apps~~USIM~~	ME	AN	CN	Others

Yes	X			**X**	
No			X		
Don't know	~~**X**~~	**X**	~~**X**~~		

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
	TR on IMS subscriber and operator relationship	**SA1**		**18 (12/02)**	**19(03/03)**	

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11 Work item rapporteur

TBD

12 Work item leadership

SA1

13 Supporting Companies

Telia, Vodafone, T-Mobile, Hutchison 3G, Telecom Italia ~~M~~, Orange, Nokia, Gemplus, Siemens

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

14b The WI is a Building Block: parent Feature

IMS enhancements (phase 2)

14c The WI is a Work Task: parent Building Block

form change history:
2002-07-04: "USIM" box changed to "UICC apps"