Technical Specification Group Services and System Aspects
Meeting #18, New Orleans, USA, 9-12 December 2002

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Source:	**SA1**
Title:	**New WID description for "Study of subscriber and operators relationship in IMS and related ISIM requirements for Rel 6"**
Document for:	**Approval**
Agenda Item:	**7.1.3**

TSG-SA WG1 #18 **S1-022364**
Busan, Korea, 11-15th November 2002 **Agenda Item: IMS**

Title: New WID description for "Study of subscriber and operators relationship in IMS and related ISIM requirements for Rel 6"

Work Item Description

Title: Study of subscriber and operators 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 standardized the IMS as a means to provide IP based multimedia services. Part of the IMS related 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, for architectural reasons (Go interface).

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 to require new technical solution to put in relationships between thus realised multiple subscriptions.

A technical study is needed to assess the different technical requirements that the relation among subscriptions to different domain as well the relation among the operators of the different domains could generate. This is a pre-condition for the evaluation of the 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 analyze a number of scenarios based on S1-0201773 . The different scenarios shall be analyzed and evaluated in order to derive the system and the services requirements that the 3GPP specification should support.

The SA1TR needs to look into the following aspects:

- Operator possibility to implement only some of 3GPP system domains. (For example an IMS system separated from the PS domain and access network. What are the relationships between the AN/CN/IMS networks in this case?)
- Operator control of used network domains. For example operator to control allowed access network(s) for IMS on an individual subscriber basis or as a general network policy.
- Alternative (e.g. WLAN) access implications.
- Access to IMS by one user with multiple devices simultaneously.
- UE functionality split (if any implications)
- Technical impact of UICC card ownership . Shall a card issued by an operator be always theproperty of one operator?
- Verify the compatibility of the possible system scenarios with 3GPP Scope.
- 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).

Among others, the following issues need to be analyzed and potential requirements exploited:

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

- 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 UICC implications (e.g. several ISIMs on one UICC and possibility of having empty field for either ISIM or USIM) 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 user applications and the related impact on the UICC applications activation (e.g. manual, automatic, PIN, NON-PIN, etc.)

7 Charging Aspects

See ch 4.

8 Security Aspects

See ch 4.

9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes	X			**X**	
No			X		
Don't know		**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
	IMS Subscription and access scenarios (Release 6)	**SA1**		**18 (12/02)**	**19(03/03)**	

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

11 Work item rapporteur

Robert Frank, Telia

12 Work item leadership

SA1

13 Supporting Companies

Telia, Vodafone, T-Mobile, Hutchison 3G, Telecom Italia , 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