Technical Specification Group Services and System Aspects
Meeting #15, Cheju Island, Korea, 11-14 March 2002

TSGS#15(02)0066

Source: **SA1**

Title: **Various Updated WIs for Approval**

Document for: **Approval**

Agenda Item: **7.1.3**

Document Number	Title	To
S1-020554	Update to WI on GUP	SP-15
S1-020638	Updated WID for WLAN	SP-15

TSG-SA WG 1 (Services) meeting #15 **S1-020554**
Saalfelden, Austria, 11-15th February 2002 **Agenda Item:**

Source: **Orange**

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Work Item Description

Title **The 3GPP Generic User Profile (updated)**

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services
X	Terminals

2 Linked work items

VHE,
OSA,
Subscription Management,
UE Management,
MExE,
IMS,
MMS,
Presence,
Location Based Services,
Push

3 Justification

The 3GPP Generic User Profile is the collection of data which is stored and managed by different entities such as the UE, the Home Environment, the Visited Network and Value Added Service Provider, which affects the way in which an individual user experiences services.

The 3GPP Generic User Profile is composed of a number of User Profile Components. An individual service may make use of a number of User Profile Components (subset) from the Generic User Profile.

The fact of having several domains within the 3GPP mobile system (i.e. Circuit-Switched, Packet-Switched, IP Multimedia Subsystem and the Service/Application domains) introduces a wide distribution of data associated with the user. Already, several 3GPP WGs specify some parts of the Generic User Profile in their own descriptive methods.

The involvement of different 3GPP WGs in the specification of the details of the Generic User Profile introduces the possibility of overlapping of the Generic User Profile specification that can cause incompatibility and inconsistencies between different components of the Generic User Profile. Therefore, a strong co-ordination is required to avoid these situations and to unify the description methods.

4 Objective

The objective of the work item is to:

- Clarify definitions and the mutual influence of the different components
- Define the Scope, components, storage/distribution, ownership, etc
- Formulate the data description framework
- Describe access mechanisms
- Evaluate the consistency of User Profile data access within the framework by defining a limited number of objects
- Address within the Scope of the work item (this list is not intended to be exhaustive and should cover the linked work items in item 2 as well):

- Identify and provide examples of User Profile objects
- Data Description Framework TS
- Some “obvious” common objects
- Device management specific objects
- The User Profile Policy shall be addressed (e.g. Privacy)
- Other Generic User Profile related objects
- e.g. Packet Streaming capability specific objects
- Assess possible protocols for transfer of User Profile data between core network elements
- Select and define the protocol for transfer of User Profile data between core network elements
- Assess possible protocols for transfer of User Profile data between the UE and the core network
- Select and define the protocol for transfer of User Profile data between the UE and the core network

5 Service Aspects

Services are customised and personalised by the 3GPP Generic User Profile.

6 MMI-Aspects

The user is able to activate, deactivate, and customise a user profile.

7 Charging Aspects

It shall be possible to support charging for the management and use of user profiles, and for access to user profiles (e.g. alteration of call forwarding).

8 Security Aspects

Access to the 3GPP Generic User Profile data shall be performed in a secure and authenticated manner, and the integrity of user profile information shall be assured.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes	X	X		X	X
No			X		
Don't know					

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
22.240	The 3GPP Generic User Profile (stage 1) - Requirements	SA 1		Plenary #16 June 2002	Plenary #17	Add text, decide impact on VHE spec.
23.241	The 3GPP Generic User Profile (stage 2) - Data description framework	T 2		Plenary #15		Common rules on how to specify User Profile Components (Pending agreement within T2)
23.240	The 3GPP Generic User Profile (stage 2) - Architecture	SA 2		Plenary #15		Should include structure, storage/distribution, ownership, etc (Pending agreement within SA2)
24.241	The 3GPP Generic User Profile (stage 3; access) - Common objects	T 2		Plenary #16		Objects needed by more than one WG. To avoid conflicting specifications on the same data. (Pending agreement within T2)
29.240	The 3GPP Generic User Profile (stage 3; network)	CN 4		Plenary #16		

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
22.121		VHE stage 1		SA1
22.057		MExE Stage 1		SA1
22.140		MMS Stage 1		SA1
22.228		IMS Stage 1		
22.141		Presence		SA1
23.057		MExE Stage 2		T2
23.127		VHE/OSA stage 2		SA2
23.140		MMS Stage 2		T2
23.228		IMS Stage 2		SA2
26.234		Transparent end-to-end packet switched streaming service (PSS); protocols and codecs		SA4
29.198-7		OSA API:Terminal Capabilities		CN5
31.111		USIM Application Toolkit		T3
31.102		Characteristics of the USIM Application		T3
32.140		Subscription Management		SA5

11 Work item rapporteurs

22.240 (S1) The 3GPP Generic User Profile (stage 1) Requirements (Paul Amery, Orange)

23.240 (S2) The 3GPP Generic User Profile (stage 2) Architecture (No rapporteur yet)

23.241 (T2) The 3GPP Generic User Profile (stage 2) Data Description Framework (Rob Lockhart, Motorola)

24.241 (T2) The 3GPP Generic User Profile (stage 3; access) Common Objects (Rob Lockhart, Motorola)

29.240 (CN4) The 3GPP Generic User Profile (stage 3; network)

12 Work item leadership

TSG-SA1 (Primary), TSG-T2 (Secondary)

13 Supporting Companies

Siemens, Materna, Ericsson, Motorola, Comverse, SBC Communications, Orange, Nokia, KPN

14 Classification of the WI (if known)

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

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

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

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

(one Work Item identified as a building block)

TSG-SA WG 1 (Services) meeting #15 **S1-020638**
Saalfelden, Austria, 11-15th February 2002 **Agenda Item: 10.4**

Title: **Updated WLAN Interworking WID**

Source: **rapporteur**

Work Item Description

Title

3GPP system - WLAN ~~UMTS~~ Interworking

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

Linked Building Blocks to be defined.

3 Justification

There is an increasing demand for wireless 'local area' access in very different scenarios. Wireless access to Internet is provided to public users by the use of currently existing WLAN technology such as IEEE 802.11b. In companies wireless access is provided to portable computer users by use of the same technology. For residential use wireless access is also increasing. 3rd generation technologies and systems will provide bearers for similar packet switched services, with greater mobility and wider area coverage albeit with reduced data rate.

WLAN technology can complement ~~UMTS~~ 3GPP based networks in deployment environments with high user density and demand for higher data rates. However, in order to provide flexible use of both technologies in these environments and to provide mobility of services between the two technologies it is sensible that some degree of interworking exists between the two technologies/systems.

4 Objective

The purpose of the work is twofold

- Continue the feasibility study
- Proceed with specification work

The purpose of the feasibility study is to study a generic interworking functionality between ~~UMTS~~ 3GPP system and WLAN systems (e.g. IEEE 802.11 family, HIPERLAN/2, …). In specific it aims at:

- Study the service requirements for Interworking scenarios~~interworking~~.
- Study the different possible architectures for interworking.

The feasibility study has identified several Interworking scenarios. Scenario 2 provides an IP connectivity via WLAN system for 3GPP subscribers. In that scenario access control and charging are 3GPP system based.

The specification work will aim at specifying the service and operational requirements for Interworking scenarios, beginning with scenario 2.

5 Service aspects

Service aspects should assess service requirements and the support of UMTS services over the WLAN radio access.

6 MMI aspects

MMI aspects should define a minimum set of functions to support the choice of access system by the user and/or terminal for when both access systems are available.

7 Charging Aspects

Both charging requirements and charging architecture should be studied. In particular it should considered whether WLAN charging should be integrated with the UMTS charging architecture or not.

8 Security Aspects

Security requirements should be studied given the prerequisite that a) the security level of the UMTS platform itself is not impacted, b) the security level provided to users in the WLAN mode is comparable to the one of UMTS.

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes					
No					
Don't know	X	X	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 22.934 ~~xxx~~	Feasibility study on 3GPP system to Wireless Local Area Network (WLAN) interworking~~Feasibility study on WLAN-UMTS interworking~~	SA1	SA2	SA#15	SA#16	TR

Affected existing specifications				
22.101		Service principles		SA1
22.115		Charging and Billing		SA1

11 Work item rapporteurs

Fredric Paint, Telenor

12 Work item leadership

SA1 (secondary SA2)

13 Supporting Companies

Telenor, Ericsson, Telia, Nokia, Sonera, Voicestream, Nortel, Alcatel, Toshiba, Cisco, Vodafone, Motorola.

~~Telenor, Ericsson, Telia, Microsoft, KPN, Siemens, Samsung Electronics Research Institute, Motorola, Swisscom~~

14 Classification of the WI (if known)

~~The work item is a feasibility study~~

The work item is a feature