# TSGS#26(04)0923

Technical Specification Group Services and System Aspects Meeting #26, Athens, Greece, 13.-16.12.2004

Source: Samsung, NEC, Fujitsu, T-mobile

Title: I-WLAN WIDs for scenario 3 enhancement in Release 7

Document for: Discussion and approval

Agenda Item: 8.9

#### Introduction

For the last several years, 3GPP has worked on 3GPP-WLAN interworking (I-WLAN) to get synergy from different radio access technologies. In Release 6, use of 3GPP Access, Authentication and Authorization for access to the WLAN (a.k.a. scenario 2) and WLAN 3GPP IP Access (a.k.a. scenario 3) to provide 3G PS service over I-WLAN have been standardized.

As for scenario 3, the original requirement from SA1 for scenario 3 is support of all 3GPP PS based services. However, it was found that some services could not be supported completely over I-WLAN in the Release 6 time frame. For example, the SBLP functionalities in PDG were decided to be removed.

In the last SA2 meetings, a new WID for I-WLAN Release 7 were proposed and discussed reflecting the requirement above. This paper proposed the approval of the WID for I-WLAN scenario 3 enhancement.

### **Proposal**

We propose the approval of the attached WID in order to allow SA2 to start relevant works immediately.

## **Work Item Description**

#### **Title**

WLAN Interworking ñ Enhancements to support 3GPP PS Services over 3GPP/WLAN Interworking

#### 1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

#### 2 Linked work items

TSG SA1: 3GPP system - WLAN Interworking (with unique ID 31012)

 $TSG\ SA2:\ WLAN\ Interworking\ \tilde{n}\ Architecture\ Definition\ and\ stage\ 2\ definition\ of\ WLAN\ access\ and\ Interworking$ 

(with unique ID 32018)

TSG SA2: IP based mobility support between heterogeneous access networks (to be approved)

TSG SA2: End to End QoS

TSG SA2: Evolution of Policy Control and Charging

#### 3 Justification

Some features needed to fully support certain 3GPP PS based services over I-WLAN were not standardized in the Rel-6 timeframe, while, the requirement from SA1 for scenario 3 is support of all 3GPP PS based services. The examples are QoS provisioning and policy control. Therefore, these features need to be provided in this work item.

### 4 Objective

The objective is to enhance the current 3GPP WLAN Interworking architecture with the capabilities of providing bearer services for connecting a 3GPP subscriber via WLAN to IP based services compatible with those offered via PS domain, e.g. IMS.

#### 5 Service Aspects

See the parent Work Item

### 6 MMI-Aspects

See the parent Work Item

### 7 Charging Aspects

See the parent Work Item

#### 8 Security Aspects

See the parent Work Item

# 9 Impacts

Affects:	UICC	ME	AN	CN	Others
	apps				

Yes		X		X	
No	X		X		
Don't					X
know					

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

				New spe	ecifi	cations	_	
Spec No.	Title		Prime 2nd rsp. WG rsp	rsp. WG(s)	info	sented for rmation at nary#	Approved at plenary#	Comments
			Affe	cted existi	ing	specification	ons	
Spec No.	CR	Subject	Subject			Approved at plenary#		Comments
23.234		Enhancements to support 3GPP PS Services over 3GPP/WLAN Interworking			•	SA#29		

### Work item rapporteur(s)

Osok Song (Samsung)

### Work item leadership

SA2

### 13 Supporting Companies

Samsung, Fujitsu, T-Mobile International, NEC, Telcordia(?), Orange(?)

### 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

3GPP system - WLAN Interworking

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

form change history:
v1.11.0: includes those changes from v1.8.0 agreed at SP-25.
v1.10.0: full circle
v1.9.0: a clean sheet
v1.8.0: includes comments from RAN, CN and T #24; also includes icarly implementation data
v1.6.0: includes comments made during review period prior to TSGs#24
v1.5.0: includes comments made at TSGs#23 (Phoenix)
v1.4.0: offered to SA#23 for approval
v1.3.0: offered to CN#23, RAN#23 and T#23 for comments
DRAFT4 v1.3.0: 2004-03-09: Incorporation of comments from Leaders list

DRAFT3 v1.3.0: 2004-02-19: Incorporation of comments from MCC members DRAFT2 v1.3.0: 2004-01-29: Complete redraft: v1.2.0: 2002-07-04: "USIM" box changed to "UICC apps" 2003-05-28: spelling of i rapporteuri corrected 2002-07-04: "USIM" box changed to "UICC apps"