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 ñ 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 apps	ME	AN	CN	Others

Yes		X		X	
No	X		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
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
23.234		Enhancements to support 3GPP PS Services over 3GPP/WLAN Interworking		SA#29		

11 Work item rapporteur(s)

Osok Song (Samsung)

12 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