

Title: LS on CN related work on 3GPP-WLAN Interworking
Response to:
Release: Release 6
Work Item: WLAN Interworking

Source: SA2
To: CN, CN1, CN4
Cc:
Document for: **INFORMATION**

3GPP TSG SA2 #28

S2-023649

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1. Introduction:

SA2 has been progressing a release 6 SA2 work item *3GPP-WLAN Interworking*. The purpose of the work item is to introduce possibility for providing IP connectivity and IP based services to 3GPP subscribers over WLAN. To enable provision of this type of services for 3GPP subscribers a new 3GPP-WLAN interworking reference model is being developed in SA2. This reference model provides means for functionalities like authentication, authorisation, accounting and service selection and setup.

The central new network element in the WLAN reference model is the "3GPP AAA server". 3GPP AAA server locates in the 3GPP home network and terminates EAP signalling towards WLAN UE. EAP signalling towards UE is carried by Diameter over the *Wr* reference point. *Wr* is also used to provide authorisation information to WLAN. Within the home network the 3GPP AAA server executes signalling with HSS over *Wx* reference point and with Packet Data Gateway over *Wm* reference point.

SA2 has a target to get the release 6 stage 2 *3GPP-WLAN interworking* specification TS 23.234 approved in March 2003. The current version of the TS is attached to this LS. SA2 acknowledges that the protocol selection for different reference points is basically the responsibility of corresponding CN groups and thus the specific protocols mentioned in the SA2 TS 23.234 should be considered only as SA2 working assumptions.

SA2 considers that the stage 3 specifications for the above type of new 3GPP system reference points should be defined by 3GPP Core Network working groups.

2. Actions:

SA2 requests CN, CN1 and CN4 groups to initiate necessary work items for creating stage 3 specifications for the above type of signalling interfaces and reference points in the release 6 time frame.

3. Next SA2 Meeting:

Meeting	Date	Location	Host
SA2#29	19-24. Jan 2003	San Fransisco, U.S.	AT&T Wireless, Rogers Wireless

Annex C (informative): Function Prioritisation

<u>Topic</u>	<u>Scenario</u>	<u>Overall priority (to March 2003)</u>	<u>SA2 WLAN group priority (to March 2003)</u>	<u>Comment</u>
Access control architecture	2	High	High	
Interworking architecture	2	High	High	Consideration of roaming and interworking scenarios
Addressing	2	High	High	IP address allocation – basic capabilities need to be defined
Charging		High	High	Consideration of charging interface
Privacy		High	High	When users enter their user name and password, a certain level of privacy is need for protect user.
Security protocols	2	High	Low	Detailed work on authentication and authorisation should now be undertaken by SA3
Charging	2	High	Low	Majority of work on charging should now be undertaken by SA5 Charging related architecture should be transferred to SA5 once this spec is stable enough until 1Q 2003.
Network selection	2	Medium / Low	Medium / Low	Does this need to be standardised for R6? Liaison to SA1
SMS	3	Medium	Medium	No contributions have yet been made on this. May need architecture changes in other areas outside the scope of WLAN group (liaison needed)
MMS	3	Medium	Medium	No contributions have yet been made on this. May need architecture changes in other areas outside the scope of WLAN group (liaison needed T2 & SA1)
IMS access	3	High	High	IMS compatibility with R5 IMS is important to operators
MBMS interworking	3	Low	Low	Propose for R7 as MBMS not yet stable
Presence	3	Low	Low	Propose for R7 – IMS access should provide support for presence services

Location services	3	Low	Low	Propose for R7 – Integration of WLAN and location services needs further consideration
Instant messaging	3	Low	Low	Propose for R7 – IMS access should provide support for messaging services
Policy control information	3 / 4	High	Low	For R6 work on IMS access independence & policy control is ongoing in other groups within SA2
Mobility	4 / 5	Low	Low	This is of high importance but is already agreed to be outside the scope of R6, it is therefore considered to be part of R7
Editorial aspects	All	Low	Low	At this stage, priority should be given to technical rather than editorial aspects