

LS to 3GPP SA2 on Operator Requirements for WLAN Stage 2 Scenario 3

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High Level Document Summary:

This is an LS to be sent to 3GPP SA and SA2

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Liaison statement

Title: LS to 3GPP SA and SA2 on WLAN Interworking

10th March 2004

From: WLAN Taskforce, GSM Association

To: 3GPP SA, SA2

CC: CPWP, SerG, IREG (GSMA)

Contact person: Graham Trickey, GSMA
email: gtrickey@gsm.org
Telephone: +44 7768 780650

The WLAN Taskforce sent an LS to 3GPP SA2 on 9th January 2004 (WLAN TF 81_005) in which it promised some additional information would be sent before the 3GPP SA2 April meeting.

The WLAN Taskforce is pleased to provide the attached "Operator Requirements for WLAN Scenario 3" document for your consideration. We would be grateful if this LS could be considered by 3GPP SA and SA2. Please can you send any comments on this document to Graham Trickey (gtrickey@gsm.org).

Operator Requirements for Scenario 3

Essential Initial Services for 3GPP Release 6 WLAN

The GSM Association has analysed the set of services that are intended to be made available on the 3GPP I-WLAN for scenario 3 and in order to help the speedy completion of the technical specifications would like to offer some guidance on the prioritisation of these services for an operator. The GSM Association understands that eventually all the services referenced in TR 22.934 will be made available within the Rel-6 timeframe, however GSM Association also understands that the support of some of these services may require a considerable amount of work if the GPRS architecture is not fully re-used to support I-WLAN.

1. SMS

GSMA believe that work on the support of SMS over I-WLAN is well advanced

2. MMS

the possibility of sending and receiving MMS while connected to the Home PLMN via a I-WLAN supporting scenario 3 is seen as highly important. The charging, security and addressing functionalities available to an operator when a MMS is sent or received while connected to the GPRS network should not be affected by the fact that the user is connected via I-WLAN.

3. Access to Corporate Intranet (*"private" APN based*)

APN based I-WLAN access to Corporate Intranet routed via the Home PLMN shall be possible. The same level of routing, charging and security functionalities as for GPRS access shall be available for I-WLAN home PLMN routed access to Corporate Intranet. It shall be in the control of the home operator, if he allows access to the Internet from the WLAN hotspot (scenario 2), or via the visited PLMN (scenario 3), or routed via the home PLMN (scenario 3). It shall be possible to allow only one of these options, or any combination.

4. Presence

The possibility of contacting the presence server also when the user is connected via I-WLAN is seen as beneficial in order to guarantee a consistent utilisation of services based on this capability. As for MMS the functionalities available to a network operator to perform appropriate charging, security and so on, should not be affected by the usage of a different radio access technology.

5. IMS



The possibility of interacting with the IMS regardless of the radio access technology employed by the user is seen as important to guarantee a good level of service continuity for users who access the home PLMN services via different radio interfaces. The same considerations as above apply. GSMA understand that QoS control may not be as effective when the user connects via I-WLAN.

Network selection

"A WLAN AN may indicate that it provides 3G interworking without the involvement of any other network than the WLAN AN."

The above requirement may be met through explicit EAP-based procedures or through the generic Preferred SSID list procedure - for example Preferred SSID lists could include SSID formats defined by operators for the above purposes."

For further information - please see the following contributions that have already been submitted to 3GPP SA2.

Title	Document Reference	Document
WLAN AN selection principles	S2-040101	 C:\data_WLAN\ Stage 2 Specs\Inputs
Virtual Access Points	11-03-15r1	 C:\data_WLAN\ Stage 2 Specs\Inputs

Clarification of TS 23.234

In the version 2.3.0 of TS 23.234, clarity is lacking on how to enable simple scenario-2 based routing principles (directly from WLAN to Internet) in an environment with Scenario-3 enabled I-WLANs and WLAN UEs. Clarification is needed on how scenario-2 routing principles are permitted in a scenario-3 environment.

Clarification is needed in the WLAN – 3GPP inter working document on how Scenario 3 can be implemented to provide internet access by either WLAN directly or by the VPLMN/HPLMN. In particular,

- The use of subscription information, user or home operator preference to indicate any policy for providing internet access needs to be clarified.
- Routing of data by WAG and WLAN for internet access that can possibly be provided by the WLAN and other 3GPP home/visited network services that can possibly be running in parallel to the direct internet access from WLAN needs further work

Inter-operator (visited network) charging requirements for scenario 3

Operators request that it shall be possible to generate per user and/or per tunnel charging information within VPLMN elements. The generated charging data shall contain such information that could also be used to produce charging data using well established inter-operator charging formats such as TAP3.10. Per user charging mechanism shall also be available in scenario 2 networks.