



LS to 3GPP on "GSMA IREG Packet Feasibility study on 3GPP Rel-6 WLAN Interworking"

Meeting Name & Number: GSMA IREG #48
Meeting Date: 1st March
Meeting Location: Barcelona
Document Source: GSMA IREG
Document Creation Date: 1/03/05

Document Status:	For Approval	X
	For Information	
	For Discussion	

Associated Knowledge Base(s):	
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Document History:	

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High Level Document Summary:

This document is LS to 3GPP about results of a feasibility study on 3GPP Rel-6 WLAN Interworking specifications. This document lists a number of identified weaknesses and missing information in the current 3GPP WLAN Interworking stage 2 and stage 3 documentations.

This document is the output from a GSMA/IREG WADHOC meeting held on Monday 28th February 2005.

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To: 3GPP TSG-CT WG 4, 3GPP TSG-CT WG 1, 3GPP TSG-SA WG2
Copy: 3GPP TSG-CT, 3GPP TSG-SA

From: GSMA IREG

Subject: LS to 3GPP on "GSMA IREG Packet Feasibility study on 3GPP Rel-6 WLAN Interworking"

Date: 1/03/2005

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Introduction

GSMA IREG has carried out a brief review of the 3GPP Rel-6 WLAN Interworking specifications in order to align their specification of GSMA PRD IR.61 (WLAN Roaming Guidelines). As an outcome of this review, GSMA IREG was able to identify a number of weaknesses and/or incomplete definitions in the stage 2 and stage 3 documentations available as at 28/02/2005.

GSMA IREG kindly asks 3GPP TSG-CN WG4, 3GPP TSG-CN WG1 and 3GPP TSG-SA WG2 to consider the issues listed in this LS as critical in the 3GPP Rel-6 timeframe.

Discussion

The following issues were identified during the feasibility study carried out in GSMA IREG:

W-APN:

- There is no exact definition on the format of the W-APN clearly stated (expected in 3GPP TS 23.003). For example it is not clearly stated whether the constructed W-APN FQDN should end with ".gprs" or ".3gppnetwork.org".
- The W-APN reference in 3GPP TS 23.008 points to 3GPP TS 29.234, which does not define the structure of the W-APN.
- The W-APN reference in 3GPP TS 24.234 points to 3GPP TS 23.234, which does not define the structure of the W-APN.
- 3GPP TS 29.234 does not contain any reference to a specification describing the exact construction of the W-APN

Network Discovery (based on the IETF draft-adrangi-eap-network-discovery-05):

- 3GPP TS 24.234 Network Discovery description lacks a definition of "realm" which is a datum in the "realm-list". For instance, a reference to 3GPP TS 23.003 Home Network Realm should perhaps be used in order to align domain names used.

Location Information (based on the IETF draft-ietf-geopriv-radius-lo-01):

- 3GPP TS 29.234 lacks RADIUS-Diameter translation description for the Location Information
- 3GPP TS 29.234 lacks Diameter AVPs for the Location Information

Explicit logoff from the WLAN AN – terminal requirement:

- 3GPP TS 23.234 (paragraph 7.11 The WLAN UE Initiated WLAN AN Access Disconnection) does not clearly state the behaviour of the Terminal (WLAN UE) when the user initiates the complete access disconnection procedure.

Conclusion

GSMA IREG identified a number of misleading and/or incomplete definitions in the current stage 2 and stage 3 WLAN Interworking specifications that were considered critical. A number of individual change request contributions from various companies may address these issues listed earlier. Note that these corrections are more seen as clarifications and should not impact any ongoing implementations. However, GSMA IREG believe that these clarifications are essential in order to avoid misunderstanding and non-interworking implementations in the future.

Actions:

GSMA IREG kindly requests **all 3GPP working groups addressed in this LS** to note the issues listed above and consider them as critical issues to be corrected for the 3GPP Rel-6 WLAN Interworking.