

**Title:** LS on the specification of 802.11i and WPA link layer security and Radius to Diameter interworking  
**Response to:** S2-031510 Security in WLAN and 3G interworking  
**Release:** Rel-6  
**Work Item:** WLAN Interworking Security  
  
**Source:** SA3  
**To:** SA2  
**Cc:**

**Contact Person:**

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**Attachments:** S3-030265 Co-Existence of RADIUS and Diameter

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**1. Overall Description**

SA3 would like to thank SA2 for their response regarding the specification of 802.11i and WPA link layer security. It was SA3 original working assumption that we should be able treat these aspects as a “black box” and just provide support for mutual authentication and generation of keying material in line with the requirements set out in the SA2 response. However, SA3 note the comment by SA2 “As well as protecting the WLAN air interface, the above techniques can be used to build support for non-repudiation of WLAN accounting records”. In addition, SA3 have also been considering the implications of the trust relation between the Cellular Operator and the WLAN Access Provider and the impact of this on the WLAN Inteworking Security TS 33.234. Until this work is complete, SA3 are unable to confirm that the WPA defined encryption meets the security requirements for WLAN-3GPP inter-working.

On the issue of Radius to Diameter interworking, SA3 has been studying the security implications. A contribution (S3-030265 Co-Existence of RADIUS and Diameter) which makes a number of recommendations, is attached, for consideration by SA2.

**2. Actions**

SA2 to comment on the recommendations in (S3-030265 Co-Existence of RADIUS and Diameter)

**3. Dates of Next TSG SA WG3 Meetings:**

Meeting	Date	Location
SA3#29	15-18 July 2003	San Francisco, USA
SA3#30	7-10 October 2003	Europe ( TBA)

