

**Title:** Diameter security issues  
**Response to:** LS (S5-024240) on Diameter security issues from SA5 and  
LS (N4-020994) on Diameter security issues from CN4

**Release:** Rel-5  
**Work Item:** OAM-CH (IMS Charging)

**Source:** SA3  
**To:** SA5, CN4  
**Cc:**

**Contact Person:**  
**Name:** Brad Owen  
**Tel. Number:** +44 1793 73 6245  
**E-mail Address:** [bvowen@lucent.com](mailto:bvowen@lucent.com)

**Attachments:** None

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### **1. Overall Description:**

SA3 thanks SA5 for their LS on possible Diameter security issues in S3-020439 (S5-024240), and CN4 for their LS S3-020458 (N4-020994) on the same subject.

SA3 agrees with CN4's opinion expressed in the liaison N4-020994, the mechanisms defined in 33.210 "Network Domain Security: IP network layer security" will be sufficient to protect the Rf and Ro charging interfaces.

However, SA3 notes that the Diameter standard is still in draft status within the IETF, so it is difficult at this time to fully assess the security provisions within the Diameter draft. Currently the draft assumes the use of IPsec for protection of Diameter, which aligns with 33.210. A possible area for concern is that the Diameter specification specifies the use of IPsec in tunnel mode whereas 33.210 mandates transport mode. The resolution of any issues may have to wait until the Diameter draft is finalised.

### **2. Actions:**

**To SA5, CN4 group.**

**ACTION:** None

### **3. Date of Next SA3 Meetings:**

SA3 #26                      19<sup>th</sup> Nov. – 22<sup>th</sup> Nov. 2002                      Oxford, UK