

**Title:** LS on on Diameter security issues  
**Response to:** LS (S5-024240) on Diameter security issues from SA5.  
**Release:** Rel-5  
**Work Item:** OAM-CH (IMS Charging)

**Source:** CN 4  
**To:** SA5  
**Cc:** SA3

**Contact Person:**

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**Attachments:** None

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**1. Overall Description:**

CN4 thanks SA5 for their LS on possible Diameter security issues in N4-020874(S5-024240). CN4 note that the Diameter protocol has been chosen for Rf and Ro interfaces to achieve the accounting transfer for the off-line and the on-line charging processes.

CN4 have done a preliminary examination of the issue and the Diameter base protocol relies on a hop by hop security approach. In environments where two peers communicate through intermediate nodes (e.g. relay or proxy agents), integrity and confidentiality are lost at each agent.

It is CN4's opinion that if the network elements involved in the charging architecture are within the same Network operator's domain the Network Domain Security mechanisms already provided under SA3's remit should satisfy SA5's concern.

**2. Actions:**

**To SA5 group.**

**ACTION:** None

**3. Date of Next CN4 Meetings:**

CN4 #16	23 <sup>rd</sup> Sep. – 27 <sup>th</sup> Sep. 2002	USA
CN4 #17	11 <sup>th</sup> Nov. – 15 <sup>th</sup> Nov. 2002	Bangkok, Thailand