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**Title:** Response LS on Reception Acknowledgement for MBMS  
**Response to:** Liaison Statement on Reception Acknowledgement for MBMS  
**Release:** Rel-6  
**Work Item:** MBMS

**Source:** SA3  
**To:** SA4  
**Cc:** SA5, SA2, SA1

**Contact Person:**  
**Name:** Adrian Escott  
**Tel. Number:** +44 7782 325254  
**E-mail Address:** adrian.escott@three.co.uk

**Attachments:** None

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## 1. Overall Description

SA3 thank SA4 for their liaison on Reception Acknowledgement.

SA4 asked SA3 two questions in your liaison.

“SA3 are kindly asked to consider the implications of using reception reports for acknowledgement collection noting that acknowledgement collection may be used by the BM-SC to take further action.”

SA3 believe that there is no guarantee that a BM-SC will receive a reception report from a UE. This may happen for many genuine reasons as well as malicious ones. Applying integrity protection to a reception report will at least guarantee that the reception report was created by a specific UE and stop a malicious UE spoofing reception reports. It is indicated in the attachment that reception report will be contained in a HTTP POST. SA3 should be able to provide integrity protection using HTTP Digest, although the full details of this have not been studied.

In summary it should be possible to ensure that a malicious UE can only spoof its own reception report, but no guarantee can be made that a UE will send its reception reports.

“Further SA3 are kindly asked to consider the feasibility of extending the delivery acknowledgement mechanism for charging purposes and to report back to SA4 on whether this is possible”

The only possibility for secure charging based on a delivery acknowledgement seems to delay delivery of the appropriate key (MSK) until after the BM-SC has received the delivery acknowledgement. SA3 have not studied the impacts and complexities that such a mechanism may impose on the overall system.

## 2. Actions

**ACTION:** SA3 ask SA4 to take their response into account when considering further work on Reception Acknowledgement

## 3. Date of Next TSG-SA3 Meetings

SA3#37	21 - 25 February 2005	Sophia Antipolis, France
SA3#38	25 – 29 April 2005	Switzerland (TBC)