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TSG-RAN Working Group 2 (Radio L2 and Radio L3)   *R2-010978*
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Source: TSG-RAN WG2

To: TSG-GERAN, TSG-RAN WG3, TSG-SA WG2

Cc:

**Title: Response to LS (GAHW-010109, R3-010890 and S2-010383) on Optimised
            IP speech and header removal support in GERAN**

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RAN2 has looked at the questions and encloses its responses below.

Signalling for header removal for GERAN
RAN2 has checked the proposed solution in GERAN (GAHW-010064) which is based on the usage of RRC messages. RAN2 does not see any problems with that solution.

Deployment of header removal
RAN2 confirms that it has no plans to deploy header removal in UTRAN.

Use of IPSec with header compression and header removal
It is the understanding of RAN2 that header compression can be used together with IPSec. It should be noted however that the efficiency of header compression is reduced because the encrypted part of the IP header cannot be compressed.

It is also the understanding of RAN2 that header removal can not be used together with IPSec.

Handover GERAN-UTRAN
It was asked how long time GERAN-UTRAN handover would be expected to take. As this handover procedure is not yet totally specified, no answer can be given. Once the handover mechanism is finalised also the duration of handover can be estimated.

RAN2 would like to ask GERAN how the RTP sequence numbers will be handled during handover to and from UTRAN when header compression is and is not configured in UTRAN.