3GPP TSG SA WG 3 Meeting SA3#102Bis-e TDoc S3-211108

Electronic meeting, Online, 1 - 5 March 2021

**Title: Reply LS to LS on Security Requirements for Sidelink/PC5 Relays**

**Response to: LS S2-2004750 on LS on Security Requirements for Sidelink/PC5 Relays from SA2**

**Release: Rel-17**

**Work Item: FS\_5G\_ProSe**

**Source:** **[to be SA3]**

**To:** **SA2**

**Cc: RAN2, RAN3**

**Contact person: Wei Lu**

**luwei10@xiaomi.com**

**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:** None

# 1 Overall description

SA3 thanks SA2 for the LS S2-2004750 on FS\_5G\_ProSe in TR 23.752.

Corresponding to the SA2 study, SA3 is studying all the related security aspects in TR 33.847. The study has progressed with 16 key issues and their corresponding solutions so far, of which 10 key issues concerns the support of UE-to-Network Relays and UE-to-UE Relays.

Both Layer-2 and Layer-3 relays have security implications to be addressed, which are being studied in multiple security solutions. Feasibility of each of the solutions still relies on whether the open issues captured in editor’s notes can be addressed. At present time, there are no conclusions on any of the solutions. L2 solution on UE-to-Network Relay has almost finished study by adding the evaluation clause, while L3 solutions on UE-to-Network Relay are not. For a remote UE in L3 UE-to-Network relay case, only the solution using N3IWF can meet the end-to-end security requirement. Evaluation of impact on architecture will be made for each of the solutions to facilitate conclusion drawing by SA2 on the architecture options.

# 2 Actions

**To SA2**

**ACTION:** SA3 kindly asks SA2 to take the above reply into consideration. If SA2 makes further progress or conclusions on architecture solutions for UE-to-Network Relay and UE-to-UE Relay, please keep SA3 informed.

# 3 Dates of next TSG SA WG 3 meetings

SA3#103e 17 - 28 May 2021 Electronic meeting