**3GPP TSG-SA3 Meeting #102-e draft\_S3-210351-r3**

**e-meeting, 18 – 29 January 2021**

**Title:** LS on loop registration in CAG

**Response to:**

**Release:** Rel-16

**Work Item:** FS\_ Vertical\_LAN\_SEC

**Source:** SA3

**To:** SA2 and CT1

**Cc:** RAN2

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**Attachments:** S3-210350

**1. Overall Description:**

In SA3#99e, SA3 sent a LS to SA2 (S3-201414) regarding the MITM attack in CAG, then, SA2 approved a solution to solve the FBS issue .

After analysing the SA2 approved solution, SA3 has identified that the solution may subject to a MitM attack. In the attack a false base station broadcasts a fake CAG different from the CAGs supported by the connecting genuine gNB to make UE go into a loop of registration attempts but never succeed. Details on the new issue can be found in S3-210350. The MitM attack is non-persistent in the sense that after the attacker stops the attack, UEs are able to register. But during the attack UEs cannot register.

Therefore, SA3 kindly asks SA2 and CT1 to take the above information into consideration.

**2. Actions:**

**To SA2 group.**

**ACTION:** SA3 kindly asks SA2 and CT1 group to take the above information into account.

**3. Date of Next TSG-SA WG5 Meetings:**

SA3#102e-Bis 1 - 5 March 2021 Electronic meeting

SA3#103e 17 - 28 may 2021 Electronic meeting