**3GPP TSG-SA3 Meeting #107-e *S3-221064-r1***

e-meeting, 16 - 20 May 2022

**Title: Reply LS on EPS fallback enhancements**

**Response to: LS S3-220667/R2-2204236 on LS on EPS fallback enhancements from RAN2**

**Release: Rel-17**

**Source: SA3**

**To: RAN2**

**Cc: SA2, CT1**

**Contact person: Vlasios Tsiatsis**

**vlasios dot tsiatsis at ericsson dot com**

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

**Attachments:** None

# 1 Overall description

SA3 would like to thank RAN2 for their LS on EPS fallback.

RAN2 has requested SA3 to evaluate whether there are security issues if there is a new EPS fallback indicator included in paging or SIB.

SA3 would like to observe that paging and SIB messages are not integrity protected, therefore, could be tampered/spoofed. Using these messages adversaries can downgrade a UE from 5G to 4G by injecting malicious paging/SIB messages. Therefore, SA3 recommends that these solutions without any extra security protection on these indications should be avoided.

SA3 would like RAN2 to take the above information into account.

# 2 Actions

**To: RAN2**

**ACTION:**  SA3 asks RAN2 to take the above information into account.

# 3 Dates of next TSG SA WG 3 meetings

SA3#107e-Bis 27 June - 1 July 2022 electronic meeting

SA3#108e 22 -26 August 2022 Goteborg, Sweden