3GPP TSG SA WG 3 Meeting SA3#103e TDoc draft\_S3-211523-r3

Electronic meeting, Online, 17 - 28 May 2021

**Title: Reply LS to LS on broadcasting from other PLMN in case of Disaster Condition**

**Response to: LS C1-211189 on LS on broadcasting from other PLMN in case of Disaster Condition from CT1**

**Release: Rel-17**

**Work Item: FS\_MINT-CT**

**Source:** **SA3**

**To: CT1**

**Cc: RAN2**

**Contact person: Dongjoo Kim**

**dongjoo7.kim@lge.com**

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

**Attachments:** **None**

# 1 Overall description

SA3 thanks CT1 for the LS (C1-211189/ S3-211372) on FS\_MINT-CT being studied in TR 24.811.

For the questions in this LS, SA3 believes there may be a few possible attack scenarios of DoS attack for UE when utilizing such broadcast information from other PLMNs including following examples:

* SIBs may falsely carry an indication to mislead UE to camp on the cells due to some attacks, for example tampering, replaying, relay, etc.
* SIBs which are supposed to indicate to the UE about the supporting of disaster condition don’t carry such an indication due to some attacks, for example, tempering, replaying, relay etc.
* A VPLMN may falsely generate broadcast message indicating other PLMN is broken and send it to the air.

SA3 assumes the worst result of the above security attacks is equal to that MINT feature is disabled at all, and these attacks are applied not only to the disaster scenario, but the normal circumstance when a UE is out of coverage as well. If primary authentication and security setup procedures are performed as required, there are no additional security risks in the disaster roaming scenario that utilizes broadcast information from PLMNs other than the PLMN with Disaster Condition.

# 2 Actions

**To CT1**

**ACTION:** SA3 kindly asks CT1 to take the above reply into consideration for their subsequent works.

# 3 Dates of next TSG SA WG 3 meetings

SA3#103bis-e 5 - 9 July 2021 Electronic meeting

SA3#104e 16 - 27 August 2021 Electronic meeting