3GPP TSG SA WG 3 Meeting #104-e TDoc S3-21xxxx-r2

e-meeting, 16 - 27 August 2021

**Title: LS on NSAC procedure**

**Response to:**

**Release: Release 17**

**Work Item: Study on enhanced security for network slicing Phase 2 (FS\_eNS2\_SEC)**

**Source: SA3**

**To: SA2**

**Cc:**

**Contact person: Zander Lei**

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

**Attachments:**

# 1 Overall description

SA3 is investigating potential security issues with respect to the NSAC procedures specified in TS 23.501 and TS 23.502. SA3 would like to seek feedback from SA2 for the following issues, with more descriptions in TR 33.874 (KI#xx):

* Once UE is registered to a slice, it is always counted in NSACF quota even if the UE is never using the slice. This may cause slice underutilized especially when many legitimate/malicious UEs each registers to many slices
  + One potential solution is to consider UE usage of a slice, e.g. whether there is any PDU session established. Is it feasible?
* If NSSAA is successful but NSACF quota is reached, UE will be rejected. When UE registers again, does NSSAA needs to be performed again?
* A sudden increase in the slice registration (many UE) under EAC mode may cause slice overloaded and DoS.

# 2 Actions

**To SA2**

**ACTION:** SA3 kindly requests SA2 to take the above information into account and provide feedback on the three concerned issues.

# 3 Dates of next TSG SA WG 3 meetings

SA3#105e 8 - 12 November 2021 e-meeting