**3GPP TSG-SA3 Meeting #101-e *S3-210xxx***

**e-meeting, 9 -20 Novenber 2020** Revision of S3-21xxxx

**Source: China Mobile**

**Title: proposal for way forward**

**Document for: Approval**

**Agenda Item:**

# 1 Decision/action requested

***This contribution adds conclusion into clause 8.***

# 2 Rationale

At present, massive virtualized network equipments (like vAMF, vUDM etc.)have been deployed in commercial 5G core networks . In order to ensure the security of such virtualized network products, SECAM and SCAS for GVNP of 5GC shall be developed. Although there is no significant gap between GNP and GVNP in terms of SECAM/SCAS as identified in clause 4, there are still some security threats and requirements specific to generic virtualized network products identified in the present document, the SECAM and SCAS of GVNP in this document only apply to the virtualized 5GC netwok products.

This contribution adds way forward.

# 3 Detailed proposal

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of the change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# 8 Conclusion

## 8.2 Way forward of SECAM/SCAS for 3GPP virtualized network products

In order to ensure the security of the massive deployed virtualized 5GC network products, SECAM and SCAS for such GVNP should be considered.

It is concluded that there is no significant gap between GNP and GVNP in terms of SECAM/SCAS as identified in clause 4. However there are still some security threats and requirements specific to generic virtualized network products identified in the present document, which can serve as the basis for the SECAM and SCAS of specific virtualized network products. To continue the work, the following way forward is proposed:

- for methodology part, it is proposed to capture the methodology as described in clause 4 specific to GVNP in a new 9-series TR (to pair with TR33.916[2]).

- for critical assets and threats: it is proposed to capture the threats and critical assets as described in clause 5.2.4.2 for type1, clause 5.2.4.3 for type2, clause 5.2.4.4 for type3 specific to virtualized network product class in a new 9-series TR (to pair with TR33.926 [3]).

- for security requirements and test cases, it is proposed to capture the requirements and corresponding test cases for GVNP as described in clause 5.2.5.5 for type1, clause 5.2.5.6 for type2, clause 5.2.5.7 for type3 in a new TS (to pair with TS 33.117 [4]).

NOTE: Regarding GVNP Type2 and GVNP Type3, only the interface between 3GPP defined functionalities and virtualization layers are considered in this present document. The security assurance of virtualization layer and hardware layer themselves are not covered in this present document.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of the change \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*