**3GPP TSG-SA3 Meeting #100bis-e *S3-202563***

**e-meeting, 12 -16 October 2020** Revision of S3-20xxxx

**Source: China Mobile**

**Title: Adding hardening requirements for GVNP of type 3**

**Document for: Approval**

**Agenda Item: 2.2**

# 1 Decision/action requested

***This contribution adds hardening requirements for GVNP of type 3 into clause 5.2.5.7.y.***

# 2 References

[X] 3GPP TR 33.117: "Catalogue of general security assurance requirements"

# 3 Rationale

Based on the gap analys between GVNP SECAM and GNP SECAM in clause 4, and the GVNP model of type 3 in clause 5.2.3, GVNP of type 3 include VNF, virtualization and hardware, the general hardening requirements both for software and hardware in TS 33.117 apply to GVNP of type3. This contribution proposes security requirements and related test cases to hardening for GVNP of type 3 and suggests adding these into clause 5.2.5.7.y.

# 4 Detailed proposal

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

5.2.5.7.y Security requirements and related test cases to Hardening for GVNP of type 3

5.2.5.7.y.1 Introduction

The requirements proposed in the present clause aim to securing virtualised network products (including the network functions in service-based architecture) by reducing its surface of vulnerability. In particular the identified requirements aim to ensure that all the default virtualised network product configurations (including operating system software, firmware and applications) are appropriately set.

5.2.5.7.y.2 Technical Baseline

The GVNP of type 3 includes hardware and software. All the general hardening requirements from TS 33.117 [x], clause 4.3.2 applies to GVNP of type 3.

5.2.5.7.y.3 Operating System

GVNP of type 3 contains Guest OS and Host OS, both of which are provided by the vendor and generally based on Linux. So, all text from TS 33.117 [4], clause 4.3.3 applies to GVNP of type 3.

Editor’s Note: Hardening requirements for Guest OS not based on Linux are FFS.

5.2.5.7.y.4 Web Severs

All text from TS 33.117 [4], clause 4.3.4 applies to GVNP of type 3.

5.2.5.7.y.5 Network Devices

5.2.5.7.y.5.1 Traffic separation

All text from TS 33.117 [4], clause 4.3.5.1 applies to GVNP of type 3.

5.2.5.7.y.5.2 Separation of inter-VNF and intra-VNF traffic

All text from clause 5.2.5.5.8.5.2 applies to GVNP of type 3.

5.2.5.7.y.5.3 Separation of infrastructure manegement traffic and VNF traffic related to service

All text from clause 5.2.5.5.8.5.3 applies to GVNP of type 3.

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