**3GPP TSG-SA3 Meeting #100bis-e *S3-202562***

**e-meeting, 12 -216 October 2020** Revision of S3-20xxxx

**Source: China Mobile**

**Title: Adding hardening requirements for GVNP of type 2**

**Document for: Approval**

**Agenda Item: 2.2**

# 1 Decision/action requested

***This contribution adds hardening requirements for GVNP of type 2 into clause 5.2.5.6.x.***

# 2 References

[4] 3GPP TR 33.117: "Catalogue of general security assurance requirements"

# 3 Rationale

According to the GVNP model class of type 2, this contribution proposes security requirements and related test cases to hardening for GVNP of type 2.

# 4 Detailed proposal

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

5.2.5.6.x Security requirements and related test cases to Hardening for GVNP of type 2

5.2.5.6.x.1 Introduction

The requirements proposed in the present clause aim to securing virtualised network products (including the virtualised 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 and applications) are appropriately set.

5.2.5.6.x.2 Technical Baseline

5.2.5.6.x.2.1 No unnecessary or insecure services / protocols

All text from TS 33.117 [4], clause 4.3.2.1 applies to GVNP of type 2.

5.2.5.6.x.2.2 Restricted reachability of services

All text from TS 33.117 [4], clause 4.3.2.2 applies to GVNP of type 2.

5.2.5.6.x.2.3 No unused software

All text from TS 33.117 [4], clause 4.3.2.3 applies to GVNP of type 2.

5.2.5.6.x.2.4 No unused functions

As GVNP of type 2 does not contain the hardware layer either, all text from clause 5.2.5.5.8.2.4 applies to GVNP of type 2.

5.2.5.6.x.2.5 No unsupported components

As GVNP of type 1 does not contain the hardware layer either, all text from clause 5.2.5.5.8.2.5 applies to GVNP of type 2.

5.2.5.6.x.2.6 Remote login restrictions for privileged users

All text from TS 33.117 [4], clause 4.3.2.6 applies to GVNP of type 2.

5.2.5.6.x.2.7 Filesystem Authorization privileges

All text from TS 33.117 [4], clause 4.3.2.7 applies to GVNP of type 2.

5.2.5.6.x.3 Operating System

In addition to the Guest OS, the GVNP of type 2 may have host OS which is also 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 2.

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

5.2.5.6.x.4 Web Severs

All text from TS 33.117 [4], clause 4.3.4 applies to GVNP of type 2

5.2.5.6.x.5 Virtualized Network Products

5.2.5.6.x.5.1 Traffic separation

All text from TS 33.117 [4], clause 4.3.5.1 applies to GVNP of type 2, except for the supporting physical separation of traffic belonging to different network domains.

5.2.5.6.x.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 2.

5.2.5.6.x.5.3 Separation of infrastructure management traffic and VNF traffic related to service

All text from clause 5.2.5.5.8.5.3 applies to GVNP of type 2.

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