**3GPP TSG-SA5 Meeting #132e *S5-204132rev1***

**e-meeting 17th 28th August 2020**

**Source: Telefónica**

**Title: Roles related to NPN management**

**Document for: Approval**

**Agenda Item: 6.5.4**

# 1 Decision/action requested

***The group is asked to discuss and agree on the proposal.***

# 2 References

[1] TS 28.557 Management of non-public networks; Stage 1 and stage 2 v0.0.0

[2] TS 28.530 Management and orchestration; Concepts, use cases and requirements v16.2.0

# 3 Rationale

It is proposed to add a new subsection to identify and describe the roles that are relevant for the management of NPNs. These roles will be used to discuss management aspects of SNPNs and PNI-NPNs in upcoming subsections. These roles will also support the description of different use cases related to the management of NPNs.

# 4 Detailed proposal

This document proposes the following changes in TS 28.557 [1].

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| **1st Change** |

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

CSC Communication Service Customer

CSP Communication Service Provider

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| **2nd Change** |

## 4.x Roles related to NPN management

In the context of NPNs, responsibilities regarding operations have to be clearly defined and assigned to roles.

In clause 4.8 of TS 28.530 [2], the roles related to 5G networks and network slicing management are presented. An NPN represents a 5G network with a delimited scope in its use (i.e. non-public use). This means that NPN management can be built upon the roles related to 5G networks management, as long as the scope of these roles is limited to acting on network and services for non-public use.

According to the above rationale, the roles related to NPN management include:

* Non-Public Communication Service Customer (CSC): a CSC which only consumes communication services for non-public use, i.e. communication services offered over NPNs. A Non-Public CSC is the realization of the CSC role (see definition in TS 28.530 [2], clause 4.8) in NPN environment.
* Non-Public Communication Service Provider (CSP): a CSP which only provides communication services for non-public use, i.e. communication services offered over NPNs. A Non-Public CSP is the realization of the CSP role (see definition in TS 28.530 [2], clause 4.8) in NPN environments.
* NPN Operator: an Network Operator (NOP) whose management scope is limited to 5G networks for non-public use, i.e. NPNs. An NPN operator is the realization of the NOP role (see definition in TS 28.530 [2], clause 4.8) in NPN environments.
* Network Equipment Provider (NEP), including VNF supplier: see definition in TS 28.530 [2], clause 4.8.
* Virtualization Infrastructure Service Provider (VISP): see definition in TS 28.530 [2], clause 4.8.
* Data Centre Service Provider (DSCP): see definition in TS 28.530 [2], clause 4.8.
* NFVI Supplier: see definition in TS 28.530 [2], clause 4.8.
* Hardware Supplier: see definition in TS 28.530 [2], clause 4.8.

Note that not all the roles needed modification in their definition. Indeed, NEP, VISP, DSCP, NFVI supplier and Hardware Supplier roles are the same as defined for 5G networks and network slicing management. This is because their managed/provided assets are unaware of the public or non-public nature of 5G network and services running atop.

Depending on actual scenarios and the type of NPNs under consideration, i.e. SNPN or PNI-NPN, different relationships can be found between NPN management roles and potential stakeholders. These relationships will be analyzed along with the management aspects specific to each NPN category.

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| **End of change** |