**3GPP TSG-SA5 Meeting #144-eS5-224109**

**e-meeting, 27 June - 1 July 2022**

**Source: Huawei**

**Title: Add use case for VNF instantiation**

**Document for: Approval**

**Agenda Item: 6.8.5.1**

# 1 Decision/action requested

***For approval***

# 2 References

[1] 3GPP TR 28.834 V0.1.0 Study on Management of Cloud Native Virtualized Network Functions

# 3 Rationale

This contribution adds a use case to describe instantiation of a Network Service which contains cloud-native VNFs.

# 4 Detailed proposal

This contribution proposes to make the following changes in [1].

|  |
| --- |
| **1st change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[x] ETSI GR NFV-IFA 013: "Network Functions Virtualisation (NFV) Release 4; Management and Orchestration; Os-Ma-nfvo reference point - Interface and Information Model Specification".

[y] ETSI GR NFV-IFA 014: "Network Functions Virtualisation (NFV) Release 4; Management and Orchestration; Network Service Templates Specification".

|  |
| --- |
| **2nd change** |

## 5.X Use cases# X: Instantiation of Network Service

### 5.X.1 Description

As a pre-condition to this use case, the network is running normally. The 3GPP management system has subscribed to VNF instance lifecycle notifications from VNFM.

The use case begins when the 3GPP management system decides to instantiate a Network Service.

The 3GPP management system requests NFVO to instantiate the Network Service (as defined in ETSI GR NFV-IFA 013[x]). NFVO inspects the relevant Network Service Description (as defined in ETSI GR NFV-IFA 014[y]) to find which VNFs should be instantiated.

For each VNF to be instantiated, NFVO sends a request to VNFM to instantiate the VNF. VNFM instantiates a new instance of the VNF and sends a notification to the 3GPP management system to notify that the VNF has been instantiated.

The end result is that the 3GPP management system may be informed of the instantiation of multiple VNF instances.

### 5.X.2 Requirements

None.

|  |
| --- |
| **End of changes** |