**3GPP TSG-SA5 Meeting #144-eS5-224110**

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

**Source: Huawei**

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

**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 scaling of a cloud-native VNF.

# 4 Detailed proposal

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

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| **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 008: "Network Functions Virtualisation (NFV) Release 4; Management and Orchestration; Ve-Vnfm reference point - Interface and Information Model Specification".

[y] ETSI GR NFV-IFA 011: "Network Functions Virtualisation (NFV) Release 4; Management and Orchestration; VNF Descriptor and Packaging Specification".

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| **2nd change** |

## 5.X Use cases# X: Scaling of cloud-native VNF

### 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 scale a VNF.

The 3GPP management system requests VNFM to scale the VNF (as defined in ETSI GR NFV-IFA 008[x]). VNFM inspects the relevant VNF Descriptor (as defined in ETSI GR NFV-IFA 011[y]) to find the VNF components (VNFCs).

VNFM will add or remove VNFC instances as needed for the desired scaling level of the VNF. When the VNFCs have been added or removed, VNFM sends a notification to the 3GPP management system to notify that the VNF has been scaled. This notification includes information on the changes to VNFCs.

### 5.X.2 Requirements

None.

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| **End of changes** |