**3GPP TSG-SA5 Meeting #158 *S5-247104***

Orlando, USA, 18 - 22 November 2024

**Source:**  **Rakuten Mobile**

**Title: pCR TR 28.869 Add terminology for descriptor**

**Document for: Approval**

**Agenda Item: 6.19.6**

# 1 Decision/action requested

***For approval***

# 2 References

1. 3GPP TR 28.869 v1.1.0 Study on cloud aspects of management and orchestration.

# 3 Rationale

The contribution proposes to add terminology for the word “descriptor”

# 4 Detailed proposal

It is proposed to make the following changes to TR 28.869 [1].

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| **1st Change** |

### 4.2.2 Terminology alignment with ETSI NFV

In ETSI NFV according to ETSI GR NFV 003 [11]:

- terms virtualization and cloudification are used interchangeably.

- the terms "cloud-native VNF" and "cloud-native NF" are used interchangeably.

- a containerized NF, a container-based NF, a containerized VNF, and a container-based VNF refer to the same concept (i.e. VNF whose software components are deployed within OS containers) and are used interchangeably.

- the descriptor is VNFD, as per ETSI NFV specifications (see ETSI GS NFV-IFA 011 [22])

The above relationships and terminology are considered for example by ETSI GS NFV-IFA 049 [2] when describing the use of VNF generic OAM functions.

EXAMPLE: When describing that the Log aggregator supports the capability to collect different types of logs from different VNFs, both containerized VNFs and VM-based VNFs are considered.

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| **2nd Change** |

### 5.2.3 Use case #3: Creation of a NF Deployment instance

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#### 5.2.3.3 Potential solutions

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##### 5.2.3.3.2 Use of deployment management reference point based on declarative descriptor

In this solution the 3GPP management system interacts with an orchestration and management system using the deployment management reference point as described in clause 5.2.1.3 for creation of a NF deployment instance. The deployment requirements for creating a workload of a NF are conveyed from the 3GPP management system to the orchestration and management system via a declarative descriptor.

Figure 5.2.3.3.2-1 depicts a high-level view of proposed procedure for creation of a NF deployment instance based on declarative descriptor.



Figure 5.2.3.3.2-1: Interaction between 3GPP management system and orchestration and management system using deployment management reference point based on declarative descriptor

The declarative descriptor provides a declaration in high-level on what to be achieved by the orchestration and management system rather than how to achieve it.

If the orchestration and management system is ETSI NFV MANO, the interactions over deployment management reference point are as specified in clause 7.10 of 28.531 [7]. For the case of NFV-MANO, the declarative descriptor is VNFD, as per ETSI NFV specifications (see ETSI GS NFV-IFA 011 [22]).

NOTE: In case the orchestration and management system is ETSI NFV MANO, VNFD is defined to convey the deployment requirement information. For other industry solutions, currently there is no standardized descriptor.

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| **End of Changes** |