**3GPP TSG-SA5 Meeting #158 *S5-247108d2***

Orlando, USA, 18 - 22 November 2024

**Source:** **China Mobile, NTT DOCOMO**

**Title: pCR Add Evaluation of solutions for Cloud-native VNF policy management**

**Document for: Approval**

**Agenda Item: 6.19.6**

# 1 Decision/action requested

***In this box give a very clear / short /concise statement of what is wanted.***

# 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 evaluation of solutions for Cloud-native VNF policy management.

# 4 Detailed proposal

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

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| **1st Change** |

#### 5.1.2.4 Evaluation of solutions

According to solution in clause 5.1.2.3.2 3GPP management system interacts with NFV-MANO to configure VNF non-application policies. This functionality is already supported according to clause 5.1.18 of TS 28.531[7].

The potential solution in clause 5.1.2.3.1 supports the capability to perform policy management for cloud-native VNFs. It introduces a PaaS reference point and a related platform entity. The advantages of this solution are:

- The Policy Agent enables decoupling the execution and decision-making of policies from the policy enforcement, enabling such an agent to be reusable for executing diverse kinds of policies, e.g., associated to cloud-native VNF or to other management functions. Such decoupling enables performing enabling near real-time execution and decision-making of policies associated to cloud-native VNFs as the Policy Agent can run where the cloud-native VNFs is also deployed.

- The Policy Agent can be associated to cloud-native VNF both as a common function, i.e., associated to the policy of multiple cloud-native VNF, or dedicated function, i.e., associated to a single cloud-native VNF.

The platform entity resides outside the 3GPP management system without introducing any major impacts to neither SBMA framework, nor the NRM. Therefore, the potential solution provided in clause 5.1.2.3.1 is a feasible solution. Additional investigation is needed in the normative phase to establish the relationship between the MnS producer of Policy Management of 3GPP management system and its related IOCs and Policy Agent when handling policies for cloud-native VNFs and OAM procedures associated to the cloud-native VNFs.

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| **End of Changes** |