**3GPP TSG-SA5 Meeting #158 *S5-246768rev1***

Orlando, USA, 18 - 22 November 2024

**Source: NTT DOCOMO, China Mobile**

**Title:** **pCR TR28.869 Placement of cloud native NFs evaluation**

**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 evaluations of solutions for Placement of NF Deployment instance.

# 4 Detailed proposal

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

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| **1st Change** |

5.3.1 Use case #1: Placement of cloud native NFs

5.3.3.1 Description

The distributed cloud deployment types enable the network to be deployed across different geographical locations. In this use case CSPs use the information about the available placement locations and resources in each, if available, to select the optimal location(s) for an NF. This provides the NOPs/CSPs with the choice of where a particular NF can be placed at the time of deployment. The parameters that can impact the choice of placement include geographical service area, performance in terms of latency and available bandwidth, as well as level of deployment complexity. In order to support distributed cloud deployments, the 3GPP management system needs to provide the capability for NOPs/CSPs to learn the available deployment locations.

Note: The mechanism to indicate the preferred placement of a particular NF is already supported by use of attribute ‘locality’ in the ManagedNfProfile datatype.

5.3.3.2 Potential requirements

**REQ-1** The 3GPP management system should be able to collect information about the available deployment locations.

NOTE: The granularity of the location information is FFS.

5.3.3.x Potential solutions

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5.3.3.4 Evaluations of solutions

Editor’s Note: update the evaluation section when they description of all the solutions has been finalized, highlighting the impact to the 3GPP management system.

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| **End of Changes** |