**3GPP TSG-SA5 Meeting #156 *S5-244315***

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**Source: Nokia**

**Title: Rel-19 pCR TR 28.869 Add use case for scaling of cloud-native NFs**

**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, " Study on cloud aspects for management and orchestration."

# 3 Rationale

This pCR proposes to add a use case to clause 5.2 of TR 28.869 [1] to enable the 3GPP management system to initiate scaling actions for specific cloud-native NF(s).

# 4 Detailed proposal

It is proposed that the following changes be made to clause 5.2 of TR 28.869 [1].

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| **First Change** |

### 5.2.x Use case #x: Scaling of cloud-native network functions

#### 5.2.x.1 Description

There can be scenarios where the 3GPP management system needs to interact with the orchestration and management entity to request the horizontal scaling of a specific cloud-native NF instance. The horizontal scaling determination can be based on, for example, the current or predicted load of the network function(s).

Also, the 3GPP management system can require to configure the scaling information on the orchestration and management entity to automatically trigger the horizontal scaling for specific cloud-native NF(s). And depending on the configured scaling information by the 3GPP management system, the orchestration and management entity can automatically trigger the horizontal scaling of the cloud-native NF(s).

Editor’s note: The term “cloud-native NF” is not yet defined.

#### 5.2.x.2 Potential requirements

**REQ-SCALING-1:** The xyz reference point should have the capability enabling the 3GPP management system to request the horizontal scaling of the cloud-native NF.

**REQ-SCALING-2:** The xyz reference point should have the capability enabling the orchestration and management entity to inform the 3GPP management system of the result of the horizontal scaling of specific cloud-native NF request.

**REQ-SCALING-3:** The xyz reference point should have the capability enabling the 3GPP management system to configure the scaling information to support the automatic horizontal scaling of specific cloud-native NFs.

**REQ-SCALING-4:** The xyz reference point should have the capability enabling the orchestration and management entity to inform the 3GPP management system of the result of the configuration of the scaling information to support the automatic horizontal scaling of specific cloud-native NFs.

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| **End of Change** |