**3GPP TSG-SA5 Meeting #155 *S5-243192***

Jeju, South Korea, 27 - 31 May 2024 revision of S5-242886

**Source: Nokia, Rakuten**

**Title: Rel-19 pCR TR 28.869 Add a potential solution for data streaming for cloud-native network functions**

**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

There is a need to add a potential solution well-suited to the data streaming of performance metrics in cloud-native NF scenarios.

# 4 Detailed proposal

It is proposed that the following changes be made in clause 5.2.2 of TR 28.869 [1].

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| **Begin Change** |

### 5.2.2 Use case #2: data streaming for cloud native network function

#### 5.2.2.Y Potential solutions

##### 5.2.2.Y.1 Solution #X: Management data streaming based on a message bus

This potential solution proposes the addition of a new reporting method for management data for network functions running in the cloud. The solution proposes the use of message bus for the reporting of management data from the MnS producer to the MnS consumer as shown in Figure 5.2.2.Y.1-1.

MnS producer

MnS consumer

Message bus communication

Management data job control (e.g., PM or trace job creation, PM metric subscription, convey end-point information)

Figure 5.2.2.Y.1-1: Potential solution for management data streaming based on a message bus.

The proposed solution enables MnS producer(s) to stream management data to the message bus when ready while also enabling the MnS consumer to consume these data from the message bus whenever they need to. In addition, this potential solution decouples the production of management data from the consumption of management data. The proposed solution does not have any architectural impacts on the 3GPP management system.

Editor’s Note: whether there is architectural impact on the 3GPP management system is FFS

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| **End Change** |