**3GPP TSG-SA5 Meeting #148e *S5-233464rev1***

**17 Apr to 25 Apr 2023, E-meeting**

**Source: China Telecom**

**Title: Update Evaluation and Conclusion for KI#3**

**Document for: Approval**

**Agenda Item: 6.7.6.2**

# 1 Decision/action requested

***The group is asked to discuss and agree on the proposal.***

# 2 References

[1] 3GPP TR 28.864-100: "Study on Enhancement of the management aspects related to NWDAF".

# 3 Rationale

The existed evaluations and conclusions in KI#3 missed the potential solution #6 in clause 4.3.3.6 and potential solution #7 in clause 4.3.3.7.

This pCR is to evaluate and conclude the potential solution #6 in clause 4.3.3.6 and potential solution #7 in clause 4.3.3.7.

# 4 Detailed proposal

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| **Start of Change** |

### 4.3.4 Evaluation

In order to measure how busy the NWDAF is on specific services, there are multiple potential solutions proposed for the performance measurement of the NWDAF on the interaction aspect.

In the potential solution #1, the performance measurements of NWDAF on the interaction aspect are provided as the number of subscriptions and/or requests received by NWDAF. In the potential solution #2, the performance measurements of NWDAF on the interaction aspect are provided as the number of notifications and/or responses generated by NWDAF.

In the potential solution #3, the performance measurements of Aggregator NWDAF on the interaction aspect are provided as the number of subscriptions and/or requests invoked by the Aggregator NWDAF to subscribe and/or request the analytics information for analytics aggregation. In the potential solution #4, the performance measurements of Aggregator NWDAF on the interaction aspect are provided as the number of notifications and/or responses received by Aggregator NWDAF to get analytics information for analytics aggregation.

The potential solution #1 and #2 can support the performance measurement of the NWDAF on the interaction aspect for performing the normal task (i.e., the analytics services). The potential solution #3 and #4 can support the performance measurement of the Aggregator NWDAF on the interaction aspect for performing the extra tasks (i.e., subscribe/request the analytics information from the other NWDAFs and aggregate the analytics output) compared to the normal task. These proposed performance measurements on the interaction aspect can indicate how busy the NWDAF is on analytics related services.

The potential solution #5 introduces the idea that a MnS producer will provide statistic information such as "distribution of the arriving service requests" and "expected distribution of incoming requests" and based on which, whether the NWDAF is observing the "Expected service usage" or "Abnormal service usage" can be provided as performance measurements of the NWDAF service usage.

However, the potential solution #5 is not complete, since it is not clear which NFs/MFs will be the MnS producer used to provide the results corresponding the "expected distribution of incoming requests" and/or "distribution of the arriving service requests" and how.

In the potential solution #6, the performance measurements of NWDAF related to MTLF on the interaction aspect are provided as the number of subscriptions and/or requests received by NWDAF supporting model provisioning services. In the potential solution #7, the performance measurements of NWDAF related to MTLF on the interaction aspect are provided as the number of notifications and/or responses generated by NWDAF supporting model provisioning services.

The potential solution #6 and #7 can support the performance measurements of the NWDAF on the interaction aspect for performing the model provisioning related services. These proposed measurements on the interaction aspect are basic statistic information which can be used to indicate how busy the NWDAF is on model provisioning related services. Moreover, with these basic measurements, we can derive the other performance of NWDAF such as successful rate of model provisioning related services, etc.

Consequently, the potential solutions #1, #2, #3, #4, #6 and #7 can provide the performance measurement of the NWDAF on the interaction aspect. These potential solutions are feasible candidates as input to the normative phase on the performance measurement of the NWDAF performing the normal task and extra task.

### 4.3.5 Conclusion for KI#3

The potential solutions #1, #2, #3, #4, #6 and #7 can provide the performance measurement of the NWDAF on the interaction aspect. These potential solutions are feasible candidates as input to the normative phase on the performance measurement of the NWDAF performing the normal task and extra task.

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| **End of Change** |