**3GPP TSG-SA5 Meeting #140-e *S5-216386rev1***

**e-meeting, 15 - 24 November 2021**

**Source: Lenovo, Motorola Mobility, CMCC**

**Title: Providing detailed information for testing an NF**

**Document for: Approval**

**Agenda Item: 6.5.5**

# 1 Decision/action requested

***Please approve***

# 2 References

# 3 Rationale

*The operational environment may change over time and the operator may want to simulate how an NF behaves in a simulation of the operational environment –. This implies the 3GPP management system should be able to fetch and record periodic states of the operational network to test against the NF.*

# 4 Detailed proposal

Start of changes

## 6.x Scenario X

## 6.x.1 Description

While system tests are expensive to perform, they do not represent the real operational network. Therefore, the gap between a system test and an operational network, especially in telecommunication network, maybe be a rather large one.

To overcome this the operator may maintain a partial simulated environment of the live operational network or a recording of the operational network based on specific events that the operator may want to test against. A new version of the NF may replace the old NF in the simulated environment and help the operator simulate how the new NF would perform in the operational network.

To be able to do so the 3GPP management system should be able to periodically provide configurable state and other relevant information to enable the simulation of the operational network as close as possible to the actual network.

## 6.x.2 Potential Requirements

**REQ-CICD-DT\_FUN-1:** The 3GPP management system should be able to periodically provide to authorized consumers the information required to simulate the operational network.

**REQ-CICD-DT\_FUN-2:** The 3GPP management should provide to authorized consumer the capability to configure the level of details required to create a simulation of the operational environment.

**REQ-CICD-DT\_FUN-3:** The 3GPP management system should be able to record the information required to create a simulation of the network .

End of changes