**3GPP TSG-SA5 Meeting #141-e *S5-*** ***22144rev1***

**e-meeting, 17 -26 January 2022**

**Source: Lenovo, Motorola Mobility,**

**Title: Add overall process**

**Document for: Approval**

**Agenda Item: 6.5.3**

# 1 Decision/action requested

***Please approve***

# 2 References

[1] 3GPP TR 28.819 V0.4.0 Study on continuous integration continuous delivery support for 3GPP NFs

# 3 Rationale

This contribution updates the Intro section.

# 4 Detailed proposal

This contribution proposes to make the following changes in [1].

Start of changes

# 7. Proposed Process for Multi-Vendor CI-CD



Figure X Overall testing process for newly delivered NF

The overall CI-CD and testing process for a 3GPP system looks like that shown in Figure X. The salient steps in the process are as follows

1. A new version of NF is delivered to the operator and goes through the CI-CD process till it is ready for use by the 3GPP management system. These steps are outside 3GPP scope. However, the 3GPP system may provide information that help conduct the testing.

An example of such information is an indication of prioties to the CI-CD system to perform the unit, acceptance, integration, and system tests on the new NF. If any of the tests fail the NF is rejected and feedback maybe provided to the vendor. Additionally, feedback may also be provided when the tests pass with other supporting information

1. When all tests succeed the CI-CD system provides a notification to the 3GPP management system and the NF is transferred to the operator’s software inventory from which the NF maybe deployed in the operational environment.
2. Finally, operational tests on the NF may still be performed prior to operational use. The 3GPP management system monitors operational test status, collects results and othe related information during the testing execution. If any of the tests fail, feedback maybe provided to the testing framework or vendor through the 3GPP management system.

When the tests in operational environment have passed, the 3GPP management system will include the NF as part of operational network, keep continuous monitoring and operational data collection.

**Vendor feedback:** At any step in the process the 3GPP management system may analyse collected data and diagnose various problems with the new NF. If a problem with the NF is diagnosed, the 3GPP management system may propose improvements, filter related environment information, do necessary data processing, and provide a feedback to vendor.

End of changes