**3GPP TSG-SA5 Meeting #145-e *S5-225497***

**e-meeting, 15 - 24 August 2022**

**Source: China Mobile**

**Title: pCR 28.834 Add Use Case on Upgrade management of the cloud-native VNF using generic OAM functions**

**Document for: Approval**

**Agenda Item: 6.8.5.1**

# 1 Decision/action requested

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

# 2 References

[1] 3GPP TR 28.834-020 “Study on Management of Cloud Native Virtualized Network Funciton”.

# 3 Rationale

This contribution proposes to add the use case and potential requirements on Upgrade management of the cloud-native VNF using generic OAM functions.

# 4 Detailed proposal

It proposes to make the following changes to TR 28.834.

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| **1st Change** |

# 5 Potential use cases and requirements

*Editor's note: this clause will contain the use cases and potential requirements.*

## 5.X Use case# Num: Upgrade of the cloud-native VNF using generic OAM functions

### 5.X.1 Description

This use case is about the upgrade of cloud-native VNFs using the "upgrade VNF function" , which is one of the generic OAM functions proposed in [2] and can handle the software upgrade of cloud-native VNF/VNFC instances to run with new software version, which can reduce the workload when providing new services.

When operators want to meet the needs of providing new services by upgrading cloud-native VNF versions, 3GPP management system sends a request to NFV-MANO to extract the files from an onboarded VNF package with new files and to change the current VNF package. NFV-MANO provides the extracted new files to the upgrade VNF function, and cooperates with the upgrade VNF function to complete the software upgrade operation. The 3GPP management system receives the result of the operation returned by upgrade VNF function from NFV-MANO.

### 5.X.2 Requirements

**REQ-CVNF\_CON-1** The 3GPP management system shall be able to send a request to NFV-MANO to extract the files from an onboarded VNF package with new files and to change the current VNF package.

**REQ-CVNF\_CON-2** The 3GPP management system shall be able to receive the result of upgrade from NFV-MANO.

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| **End of Changes** |