**3GPP TSG-SA5 Meeting #145-e *S5-225371rev3***

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

**Source: AsiaInfo**

**Title: pCR 28.834 Add Use Case on VNF package update of the cloud-native VNF**

**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 VNF package update of the cloud-native VNF

# 4 Detailed proposal

It proposes to make the following changes to TR 28.834.

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| **1nd Change** |

# 5 Potential use cases and requirements

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

## 5.X Use case# X: VNF package update of the cloud-native VNF

### 5.X.1 Description

As a pre-condition to this use case, the network is running normally. The 3GPP management system has subscribed to VNF instance lifecycle notifications from VNFM.

The use case begins when the 3GPP management system decides to update VNF package for a VNF instance.

The 3GPP management system requests VNFM to change current VNF package (as defined in clause 7.2.24 ETSI GS NFV-IFA 008 [4]).

VNFM inspects the current and target VNF Descriptor (as defined in clause 7.1.15 ETSI GS NFV-IFA 011[5]) to differentiate possible changing values that concern to some VNF component (e.g. VDU, internal VLD, etc.) or property (e.g. a Scaling Aspect, etc.).

The VNFM will change of both the VNF software version and the VNF virtualised resources , including terminating the virtualised resource instances running the current software version and instantiating new virtualised resource instances with the target VNF software version.

When the VNF software version and the VNF virtualised resources have been changed, VNFM sends a notification to the 3GPP management system to notify that the VNF package has been updated. This notification includes information on the changes to VNF package.

### 5.4.2 Requirements

**REQ-CVNF\_LCM\_CON-1** The 3GPP management system shall be able to send a request for VNF packager update of the cloud-native VNF to VNFM

**REQ-CVNF\_LCM\_CON-2** The 3GPP management system shall be able to receive notification from VNFM about VNF package update of cloud-native VNF.

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| **End of Changes** |