**3GPP TSG-SA5 Meeting #155 *S5-243185d1***

Jeju, South Korea, 27 - 31 May 2024

**Source: China Mobile, NTT Docomo, [H](http://www.baidu.com/baidu.php?url=af0000KpxzUee8WytaLnF1lcQHukhVuB-Y4GY4LjUfVHQ-WXqdKwtygqtcoE8kCK2MuO04nssa7imE7I2oW_0MbuNDPpb50MAFhdc7NF4LNRGXBO_LirDRUaItFe2PFiQXVbFuTavCqcK-pCKtz2QwaZymDhUV2UXEvnFABxUZvB8IH8zq41pcx366bu00Wwi2i--IyjlPdqrkapTh5yU8kWYG0v.DY_NR2Ar5Od663rj6tECY_Yp2cnUGJjPAKhA6OlZYPDALMLkknmlMwFWksqmTHAHkLyyu72s1f_IhHukv20.U1Yk0ZDq8lorJ6KspynqnfKY5U8J1JGsP1KsThO2doElEP83tfKGUHYznWR0u1dEugK1nfKdpHdBmy-bIfKspyfqnfKWpyfqn1T40AdY5HDsnWPxnH0krNtknjDLg1DknjRsg1csPHD0pvbqn0KzIjY1P0KBpHYkPH9xnW0Yg1RsnsKVm1Yknjc1g1DsnH-xnH0kPdtknjFxnW0dnfKkTA-b5H00TyPGujYs0ZFMIA7M5H00mycqn7ts0ANzu1Ys0ZKs5HDvrjb1rj0kPHD0UMus5H08nj0snj0snj00Ugws5H00uAwETjYs0ZFJ5H00uANv5gKW0AuY5H00TA6qn0KET1Ys0AFL5HDs0A4Y5H00TLCq0A71gv-bm1dsTzdMXh93XfKGuAnqiD4a0ZKCIZbq0Zw9ThI-IjY1nNt1nHwxnH0kP0KYIgnqnHn1njc4nHc4rHbLrHDvnHRsPsKzug7Y5HDLnHm4PHRLnWn4njR0Tv-b5yF-Phw9mvRdnj0kPjNhmHR0mLPV5HwanDD1PDc3rj6sf1K7n1m0mynqnfKsUWYs0Z7VIjYs0Z7VT1Ys0ZGY5H00UyPxuMFEUHYsg1Kxn7tsg100uA78IyF-gLK_my4GuZnqn7tsg1KxPH63rH0dPHwxn0Ksmgwxuhk9u1Ys0AwWpyfqn0K-IA-b5iYk0A71TAPW5H00IgKGUhPW5H00Tydh5H00uhPdIjYs0A-1mvsqn0K9uAu_myTqnfK_uhnqn0KbmvPb5HDzfHfsPbc4Pjf3fW-jf1cLPYc4nHfdnbuanHcvPjIDxj00IZF9uARqP1bsnH0k0AFbpyfqPRPanbcknjuArRm1nbDsPj6dfWTzPDnswHKjnDD3fYm0mMfqnfKEmgwL5H00ULfqn0KETMKY5H0WnanWnansc10Wna3snj0snj0WnaPDw-fWnanVc108nj0snj0sc1D8nj0snj0sc10WnansQW0snj0snansc10Wnansc10Wn0KBmy4omyPW5H0Wnansc100XZPYIHYknjD3Pjn4PsKkgLmqna34rNtsQW0sg108njKxna34rNtsQW6kg1Kxna33nNts0AF1gLKzUvwGujYs0ZFEpyu_myTqn0KWIWY0pgPxmLK95H00mL0qn0K-TLfqn0KkuLIb5H00mLFW5HckrHbY&us=newvui&xst=TjYkPW64n16snHRk0ynqnHFKPj0vfWbYPj9arRPjnWTLfWbkPjRzwbcknWmYPYwtn07B5HNjfWFanH0vwW-An1FKnjf3PRcLnWwjnDRsf1KKrDPA0gnqnHnLnWD3nHnLn1bznHmdrHc3njNxnWcdg10KI1veJ_lJTjTsTZFEzVpeSo1U85DKTHveJ_lJ0gRqnH0krjf1rHTKIjYkP1DvrHRdP1cY0ydk5H0an0cV0yPC5yuWgLKW0ykd5H0Kmv3qmh7GuZRKTMfqn0DkPH03nWmYnjDs&word=&ck=1360.4.1716955740766.0.0.258.227.0&shh=www.baidu.com&sht=baidu&wd=" \t "https://www.baidu.com/_blank)uawei**

**Title: pCR 28.869 Add Summary of TR 28.834 use cases related to generic OAM functions**

**Document for:** **Approval**

**Agenda Item: 6.19.6**

# 1 Decision/action requested

***In this box give a very clear / short /concise statement of what is wanted.***

# 2 References

*(Reference - in list form - should be made to previous related SA5/3GPP/etc. documents.)*

*(For changes against a draft TS/TR, a pseudo CR - a.k.a. pCR - will be provided using this Tdoc template. In this case, the number, name and version of the draft TS/TR used as base must be provided and the version must be the latest available version of the draft TS/TR.)*

1. 3GPP TR 28.869 v0.2.0 Study on cloud aspects of management and orchestration.
2. 3GPP TR 28.834: "Study on management of cloud-native Virtualized Network Functions (VNF)".

# 3 Rationale

The contribution proposes to add Summary of TR 28.834 use cases related to generic OAM functions.

The reasons for the proposed action:

- TR28.834 and TR28.869 are a series of TRs on cloud-natve VNFs.

- In order to avoid repeating studies in TR28.869, a simple summary and correlation of previous research use cases is needed

- As expected in the Conclusions and recommendations in TR28.834, some of the generic OAM functions related use cases and requirements may need to be addressed in the solutions of TR 28.869.

# 4 Detailed proposal

It proposes to make the following changes to TR 28.869 [1].

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| **1st Change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] ETSI GS NFV-IFA 049: “Network Functions Virtualisation (NFV) Release 5; Architectural Framework; VNF generic OAM functions specification.

[3] ETSI GR NFV-EVE 019: "Network Functions Virtualisation (NFV) ;Architectural Framework;Report on VNF generic OAM functions".

[4] 3GPP TR 28.834: "Study on management of cloud-native Virtualized Network Functions (VNF)".

# 4 Concepts and background

## 4.1 Background of VNF generic OAM functions

### 4.1.1 Overview

ETSI GR NFV-EVE 019 [3] defines and analyses the type of OAM functions for VNFs that can be generalized and be provided as a "generic function". It also describes potential solutions regarding the VNF generic OAM functions architectural framework and the interactions with the other entities in the NFV ecosystem.

3GPP TR 28.834“Study on management of cloud-native Virtualized Network Functions (VNF)” [4] in Release 18 studies potential use cases, requirements and solutions for the management of cloud-native virtualized network functions and the impacts on the 3GPP management system. It also includes some use cases related to VNF generic OAM functions, but the relevant specific solutions were not studied thoroughly due to the fact that the corresponding ETSI GS NFV-IFA 049 [2] was not published prior to the completion of the TR 28.834. As a result, the scope of Rel-18 “WID on management of cloud-native Virtualized Network Functions” [5] did not include enhancements related to VNF generic OAM functions.

ETSI GS NFV-IFA 049 [2] specifies the VNF generic OAM functions framework and also specifies the functional requirements and the interface requirements for VNF generic OAM functions. Considering that ETSI GS NFV-IFA 049 has been published, clause 5.1 of this Rel-19 TR studies the use of VNF generic OAM functions from the perspective of 3GPP management system.

### 4.1.X Summary of TR 28.834 use cases related to generic OAM functions

In TR 28.834, clause 5.1, 5.2 and 5.3 are the use cases related to generic OAM functions,which are about using the "VNF configuration manager function", "traffic enforcer function", "VNF metrics aggregator function" and " VNF metrics analyser function".

In clause 5, the above use cases describe the use case scenarios of the interaction process between the generic OAM functions and the 3GPP management system based on the content of ETSI GR NFV-EVE 019 [3] and give some potential related requirements, while clause 6 gives simple analysis and does not have specific solutions.

This study carries out further research on the use of generic OAM functions based on ETSI GS NFV-IFA 049 [2].

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| **End of Changes** |