**3GPP TSG-SA5 Meeting #158 *S5-247070***

Orlando, USA, 18 - 22 November 2024

**Source: Nokia**

**Title: Rel-19 pCR TS 28.abc Add introduction**

**Document for: Approval**

**Agenda Item: 6.19.22 MonStra**

# 1 Decision/action requested

***The group is requested to discuss and approve the pCR below.***

# 2 References

[1] 3GPP TS 28.abc V0.1.0 Signalling traffic monitoring management

# 3 Rationale

Since decades, the monitoring of signaling messages of the core networks has been based on systems that have not been defined by 3GPP, and thus have not been described in any 3GPP specification. As consequence, the specification for the 3GPP management system to interoperate with such signalling monitoring systems is not able to refer to any 3GPP specification for a description of the system to be managed, its context, or history of existing systems.

However, without a clear understainding of the system to be managed it’s hardly possible to define interfaces to manage such systems without the risk to define a management system that does not fulfil the expectations.

The present pCR enhances the introduction with a brief description of the system to be managed.

# 4 Detailed proposal

The following changes are proposed to TS 28.abc [1].

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| **Begin of modifications** |

Introduction

External monitoring systems are used by mobile network operators (MNOs) to track network activity for analysis and troubleshooting purposes, and subsequently to perform diagnosis and fault analysis of their system. Such monitoring has been usually performed by tapping the connections between the network functions in order to extract the signalling messages for further analysis.

Due to the encryption of the signalling traffic exchanged between network functions in 5G Core, the monitoring of the network activity as performed in legacy systems is not possible. In order to monitor the signalling messages of the 5G core, each core NFs needs to provide copies of signalling messages, that it sends or receives, to the monitoring system.

The present document covers the stage 1, stage 2 and stage 3 aspects for the Signalling Traffic Monitoring Management.

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| **Next modification** |

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".

[a] 3GPP TS 23.228: "IP multimedia subsystem; Stage 2".

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| **End of modifications** |