**3GPP TSG-SA5 Meeting #157 *S5-245989***

Hyderabad, India, 14 - 18 October 2024

**Source: Vodafone, Ericsson**

**Title: pCR of draft TS28.abc Stage 1 requirements**

**Document for: Approval**

**Agenda Item: 6.2.3**

# 1 Decision/action requested

***For approval.***

# 2 References

[1] S5-245722 new WID on Management for Monstra

[2] S5-245336, initial skeleton of draft TS28.abc signalling monitoring

[3] 3GPP TS32.160: "Management service template"

# 3 Rationale

Adding stage 1 skeleton, including description, use case, and requirements.

# 4 Detailed proposal

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# 4 Signalling traffic monitoring management capabilities (stage 1)

## 4.a Signalling Monitoring lifecycle

### 4.a.1 Description

The lifecycle management of the signalling monitoring is to be enabled by the signalling monitor consumer in charge of the signalling traffic monitoring management. The lifecycle management includes activation, streaming of a copy of the signalling traffic and termination of the signalling traffic monitoring.

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### 4.a.2 Requirements

| Requirement label | Description | Related use case(s) |
| --- | --- | --- |
| **REQ-SM-FUN-1** | The signalling monitor producer shall have the capability to allow its authorized consumer to request activating the monitoring of signalling traffic of the selected interface(s) of the selected NF(s). | Signalling Monitoring activation |
| **REQ-SM-FUN-2** | The signalling monitor producer shall have the capability to stream the NF signalling traffic to its authorized consumer. | Signalling Traffic Monitoring Streaming |
| **REQ-SM-FUN-3** | The signalling monitor producer shall have the capability to allow its authorized consumer to request terminating the monitoring of signalling traffic  | Signalling Monitoring termination |
| **REQ-SM-FUN-4** | The signalling monitor producer shall have the capability for stream the signalling traffic in a reliable manner | Signalling Traffic Monitoring Streaming |

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# Annex <X> (informative):Use Cases

## X.1  Signalling Monitoring Activation

External monitoring systems are often used by mobile network operators (MNOs) to track network activity for analysis and troubleshooting purposes, and subsequently to perform diagnosis and analysis of their system. Such monitoring system(s) are fully under the control of the MNOs, and the monitoring is performed at signalling level.

The goal of this use case is to enable the authorized consumer (signalling monitor consumer) to activate the streaming of packets from a specific NF or entity acting on behalf of the NF (signalling monitor producer). In this activation it will be requested the desired reliability for the streaming of the signalling traffic, along with the targeted interface(s)

## X.2  Signalling Monitoring Termination

Once the signalling traffic monitoring is not needed anymore it needs to be possible to stop the streaming of signalling traffic. The goal of this use case is to enable the authorized consumer (signalling monitoring consumer) to request a specified NF to terminate the streaming of signalling traffic.

## X.3  Signalling Traffic Monitoring Streaming

For the signalling traffic to be sent to a signalling monitor consumer it needs to be streamed by the signalling monitor producer. The signalling traffic streams will be transported in a reliable or unreliable way depending on the request at the time of activation.

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