**3GPP TSG-SA5 Meeting #155 *S5-243231***

Jeju, South Korea, 27 – 31 May 2024

**Source: Ericsson**

**Title: pCR TR 28.873 Reduce redundant Subscriptions by a subscription aggregation function**

**Document for: Approval**

**Agenda Item: 6.19.11**

# 1 Decision/action requested

***For agreement and approval***

# 2 References

[1] TR 28.873 " Study on data management, subscriptions and reporting"

[2] SP-231732 "Study on data management regarding subscriptions and reporting"

# 3 Rationale

As discussed and agreed in pCR S5-242095, the traffic node shall support a limitation of a maximum number of a specific PM/Trace/MDT/QoE measurement.

This pCR proposes a solution which could reduce the number of PM/Trace/MDT/QoE requests by introduce a subscription aggregation MnS in the architecture.

At PM/Trace/MDT/QoE activation, all requests are going to be sent to this subscription aggregation MnS. It checks if the new activation request can be aggregated into an existing subscription, or a new activation is needed. If aggregation is needed, a subscription updating request will be created and sent to the data producer. Otherwise, a new subscription activation is sent.

# 4 Detailed proposals

\*\*\* START OF NEXT CHANGE \*\*\*

# 6 Potential solutions

## 6.X Potential solution #X: Reduce redundantSubscriptions by subscription aggregation function

### 6.X.1 Description

As discussed in subclause 5.2, there is a requirement that the traffic node shall support a limitation of a maximum number of a specific PM/Trace/MDT/QoE measurement.

One solution, for use case 2 defined in section 5.2, which could reduce the number of subscription requests is to introduce a new aggregation function by enhancement of the existing subscription service.

At PM/Trace/MDT/QoE activation, all requests are going to be sent to this subscription aggregation function. Upon receiving the activation request, it checks if this new subscription request can be aggregated into existing subscription(s), or a new activation is needed. If aggregation is possible, a subscription updating request will be created and sent to the data producer. Otherwise, a new subscription activation request is created.

In both above use cases, the reporting address may be changed if report data privacy is a concern. When report is received, the subscription aggregation function needs to split the report information based on the original request and distribute the split PM/Trace/MDT/QoE report to multiple consumers. The details of reporting needs FFS.

\*\*\* END OF CHANGE \*\*\*