**3GPP TSG-SA5 Meeting #156 *S5-244745***

Maastricht, NL, 19 – 23 August 2024

**Source: Ericsson**

**Title: pCR TR 28.873 conclusions and recommendations**

**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 TR 28.873, the traffic node shall support a limitation of a maximum number of a specific PM/Trace/MDT/QoE measurement and the traffic node shall support a limitation of a maximum number of a specific PM/Trace/MDT/QoE measurement.

This pCR proposes a conclusion and recommendation on the potential solutions.

# 4 Detailed proposals

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# 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] 3GPP TS 28.622: “Generic Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)”.

[x1] 3GPP TS 28.623: "Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Solution Set (SS) definitions".

[x2] 3GPP TS 28.532: "Management and orchestration; Generic management services".

[x3] 3GPP TS 32.421: "Telecommunication management; Subscriber and equipment trace; Trace concepts and requirements".

[x4] 3GPP TS 32.422: "Telecommunication management; Subscriber and equipment trace: Trace control and configuration management ".

[x5] 3GPP TS 32.423: "Telecommunication management; Subscriber and equipment trace; Trace data definition and management".

[x6] 3GPP TS 28.404: "Telecommunication management;Quality of Experience (QoE) measurement collection; Concepts, use cases and requirements".

[x7] 3GPP TS 28.405: "Telecommunication management; Quality of Experience (QoE) measurement collection; Control and configuration".

[x8] 3GPP TS 28.550: "Management and orchestration; Performance assurance".

[x9] 3GPP TS 28.537: "Management and orchestration; Management capabilities".

[x10] 3GPP TS 32.442: "Telecommunication management; Trace management Integration Reference Point (IRP); Information Service (IS)".

[x11] 3GPP TS 32.446: "Telecommunication management; Trace Management Integration Reference Point (IRP); Solution Set (SS) definitions"

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### 6.1.1 Description

As discussed in subclause 5.1 that the identity used in a measurement job needs to be globally unique between consumer and producer.

This solution introduces globally uniqueness mechanism on the Collection Id, for use case 1 defined in section 5.1.

The globally unique Collection Id is:

* Trace Reference for TraceJob which needs to be unique per Trace Job.
* qoEReference for QMCJob which needs to be unique per QMC Job. or
* JobId in PerfMetricJob can be the same in more than one PerfMetricJob. But it needs to be unique number between consumers.

The Collection Id format is MCC + MNC + consumerId + taskId. The consumerId is unique within PLMN, which is assigned to the consumer by the operator. The taskId is generated by MnS consumer. The uniqueness is per MnS consumer.

consumerId + taskId provides the uniqueness per PLMN. With MCC and MNC, it makes the Collection Id globally unique.

The exact means of generating the consumerId and taskId may be discussed during the normative phase.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **S** | **isReadable** | **isWritable** | **isInvariant** | **isNotifyable** |
| mcc | M | T | T | T | N/A |
| mnc | M | T | T | T | N/A |
| taskId | M | T | T | T | N/A |
| consumerId | M | T | T | T | N/A |

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# 7 Conclusions and recommendations

## 7.1 Conclusions

The following issues are identified in the present document so far:

- The identity used in a measurement job shall be globally unique between consumers and producers. The following potential solutions are studied.

- Defining a globally unique Collection Id, refer to subclause 6.1

- Defining a Job identity generator, refer to subclause 6.2

- The traffic node shall support a limitation of a maximum number of a specific PM/Trace/MDT/QoE measurement.

- Defining a subscription aggregation function, refer to subclause 6.3

- Defining a measurement scope indicator, refer to subclause 6.4

- Enhancement on trace failure notification and administrative messages, refer to subclause 6.x

## 7.2 Recommendations

The following potential solutions are not recommended for normative work in this release:

* Job identity generator for generating a globally unique reference identity, referring to subclause 6.2;
* Defining a subscription aggregation function to avoid duplicated or overlapped subscription, referring to subclause 6.3.

Normative work could be started in this release for the following potential solutions:

- Defining a globally unique Collection Id, referring to subclause 6.1

- Defining a measurement scope indicator, referring to subclause 6.4

- Enhancement on trace failure notification and administrative messages, referring to subclause 6.x

The above normative work may require Network Resource Model enhancement in TS 28.622[2]/TS 28.623[x1]/TS 28.532 [x2], and the Trace specifications TS 32.421[x3]/TS 32.422[x4]/TS 32.423[x5], and the QoE specifications TS 28.404 [x6]/TS 28.405 [x7], and Performance Management TS 28.550[x8], Management capabilities TS28.537[x9], Trace Failure Notification TS32.442[x10]/TS32.446[x11]:

- Update TraceJob IOC with globally unique Trace Reference.

- Update PerfMetricJob IOC with globally unique Job ID.

- Update QMCJob IOC with globally unique QoE Reference.

- Update TraceJob IOC with measurement scope indicator.

- Update PerfMetricJob IOC with measurement scope indicator.

- Update QMCJob IOC with measurement scope indicator.

- Add measurement scope indicator procedure for Trace/PM/MDT/QoE

- Enhance the Trace failure notification message and administrative messages for Trace/PM/MDT/QoE.

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