**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 details of the solution is 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 enhancements in 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 review stage 1 requirements in Performance Management TS 28.550[x8], review stage 1 requirements in Management capabilities TS28.537[x9]:

- 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.

The details of the solution is discussed during the normative phase.

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