**3GPP TSG-SA5 Meeting #156 *S5-244871***

**Maastricht, NL, 19 – 23 August 2024**

**Source: Ericsson**

**Title: New WID on** **data management regarding subscriptions and reporting**

**Document for: Approval**

**Agenda Item: 6.2.2**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>   
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

Title: Data management regarding subscriptions and reporting

Acronym: Data\_SREP

Unique identifier:

{A number to be provided by MCC at the plenary}

Potential target Release: Rel-19

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Affects: | UICC apps | ME | AN | CN | Others (specify) |
| Yes |  |  | X | X |  |
| No | X | X |  |  | X |
| Don't know |  |  |  |  |  |

# 2 Classification of the Work Item and linked work items

## 2.1 Primary classification

### This work item is a …

|  |  |
| --- | --- |
|  | Study |
| X | Normative – Stage 1 |
| X | Normative – Stage 2 |
| X | Normative – Stage 3 |
|  | Normative – Other\* |

**\* Other = e.g. testing**

## 2.2 Parent Work Item

For a brand-new topic, use “N/A” in the table below. Otherwise indicate the parent Work Item.

|  |  |  |  |
| --- | --- | --- | --- |
| Parent Work / Study Items | | | |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| FS\_Data\_SREP | SA5 | 1020012 | Study on data management regarding subscriptions and reporting |

### 2.3 Other related Work Items and dependencies

|  |  |  |
| --- | --- | --- |
| Other related Work /Study Items (if any) | | |
| Unique ID | Title | Nature of relationship |
| N/A. |  | {optional free text} |

# 3 Justification

The number of automation functions are increasing in the 3GPP system. There are domain specific and interdomain entities that are performing automated functionality. All of these require data from the NFs and/or 3GPP mgmt. system. Several subscription functions are remaining from the time when it was few consumers. With many different consumers the uniqueness of the PM/Trace/MDT and QoE identities needs to be guaranteed. A globally unique Collection Id shall be specified as proposed in TR28.873.

Example:

Consumer A (e.g. NWDAF) request MDT data “1”, “2”, “5”, and “22” in Cell “a” and want the collected data to be sent to itself.

Consumer B (e.g. a customer care central) request MDT data “1”, “5” and “22” in Cell “a” and want the collected data to be sent to second line support.

The second request comes 1 minute after the first request.

As the two consumers are different and do not have any possibility to correlate the value for the Trace Reference, both use the value “123”, which will lead to that the base station supporting Cell “a” cannot differ on which collected data shall be sent where.

Also it is wanted to avoid the collection of the same data from different consumers, i.e. redundant subscriptions, for the same data from the NFs and/or 3GPP mgmt. A measurement scope indicator and enhancement of trace failure notification / administrative messages shall be specified as proposed in TR28.873.  
Example:

Consumer A (e.g. NWDAF) request MDT data “1”, “2”, “5”, and “22” in Cell “a” and want the collected data to be sent to itself.

Consumer B (e.g. a customer care central) request MDT data “1”, “5” and “22” in Cell “a” and want the collected data to be sent to second line support.

These two request comes within 1 minute difference.

# 4 Objective

Provide stage 1, 2 and 3 solutions according to the TR 28.873:

* WT-1 Decrease the load on the NFs and/or 3GPP mgmt. system can be decreased by extracting some of the required functionality, for performance measurement, Trace, MDT and QoE. Defining a measurement scope indicator and enhancement of trace failure notification / administrative messages.
* WT-2 Introduce unique collection identifiers for performance measurement, Trace, MDT and QoE subscriptions/requests within a PLMN from different consumers.

# 5 Expected Output and Time scale

|  |  |  |  |
| --- | --- | --- | --- |
| Impacted existing TS/TR {One line per specification. Create/delete lines as needed} | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
| 28.537 | Stage 1 for Management capabilities. | TSG SA#109 |  |
| 28.550 | Stage 1 for Performance Management. | TSG SA#109 |  |
| 28.532 | Stage 2 and Stage 3 for Trace Failure Notification | TSG SA#109 |  |
| 32.421 | Stage 1 for Subscriber and equipment trace. | TSG SA#109 |  |
| 32.422 | Stage 2 for Subscriber and equipment trace. | TSG SA#109 |  |
| 32.423 | Stage 3 for Subscriber and equipment trace. | TSG SA#109 |  |
| 28.404 | Stage 1 for Quality of Experience (QoE) measurement collection | TSG SA#109 |  |
| 28.405 | Stage 2 for Quality of Experience (QoE) measurement collection | TSG SA#109 |  |
| 28.622 | Stage 2 for activation and deactivation of PM, Subscriber and equipment trace and Quality of Experience (QoE) measurement collection | TSG SA#109 |  |
| 28.623 | Stage 3 for activation and deactivation of PM, Subscriber and equipment trace and Quality of Experience (QoE) measurement collection | TSG SA#109 |  |
| 32.442 | Stage 2 for update of failure notification | TSG SA#109 |  |
| 32.446? | Stage 3 for update of failure notification? | TSG SA#109 |  |

# 6 Work item Rapporteur(s)

Primary Rapporteur: Robert Petersen (Ericsson), robert.petersen@ericsson.com

# 7 Work item leadership

SA5

# 8 Aspects that involve other WGs

Potential collaborations:

CT4 WGs and RAN3 WGs.

# 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| Ericsson |
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