**3GPP TSG-SA5 Meeting #154 *S5-242088***

Changsha, China, 15 - 19 April 2024

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.622** | **CR** | **Input to draftCR** | **rev** | **-** | **Current version:** | **18.6.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

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| ***Title:*** | Rel-19 input to draftCR TS 28.622 Update ManagementDataCollection IOC to support data request based on condition | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MADCOL\_Ph2 | | | | |  | ***Date:*** | | | 2024-04-01 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-19 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | Data consumer may want to vary the data reporting control parameters according to different conditions. For example, the condition may be related to performance metrics. With the performance metrics being maintained in a normal interval, the MnS consumer may not require frequent metric production. Whereas if the performance metrics falls under a specific threshold, the MnS consumer may require frequent metric data production for further analysis. | | | | | | | | |
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| ***Summary of change:*** | | Add “Condition” to “ManagementDataCollection” | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.47.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st Change** |

### 4.3.47 ManagementDataCollection

#### 4.3.47.1 Definition

This IOC represents a management data collection request job. The requested data could be of kind Trace, MDT (Minimization of Drive Test), RLF (Radio Link Failure) report, RCEF (RRC Connection Establishment Failure) report, PM (performance measurements), KPI (end-to-end key performance indicators) or a combination of these.

The attribute "managementData" defines the management data which shall be reported. This may either include a list of data categories or a list of management data identified with their name. For further details see clause 4.3.50. The "targetNodeFilter" attribute can be used to target object instance(s) producing the required management data. It is assumed that the consumer may not have detailed knowledge of the network and hence may not identify the exact object instance producing the required management data. In this case consumer can request management data, specified by 3GPP, produced by certain object instance (s) based on a particular location, the domain (CN or RAN) of theobject instances, and the handled traffic (CP or UP) of the object instances.

To activate the production of the requested data, a MnS consumer has to create a "ManagementDataCollection" object instance on the MnS producer.

The production and reporting of the management data can be constrained by conditions such that only when the conditions are satisfied shall management data collection be enabled. For example, a MnS consumer can request to create two ManagementDataCollection instances. One can be configured with high data producing and reporting period on a set of conditions (e.g, to reduce transmission cost when network performance metric is in normal range). Another can be configured with low data producing and reporting period on another set of conditions (e.g. to enable network optimization when network performance metric is in abnormal range).

Editor’s Note: It is currently not possible to construct conditions based on performance metrics. This needs to be enabled before the text in the paragraph above can be approved and published. Furthermore, it needs to be investigated if the “ConditionMonitor” shall be used or if the conditions should be added to this IOC directly using an attribute.

The MnS producer may derive multiple jobs ("PerfMetricJob", "TraceJob") from a single "ManagementDataCollection" job for collecting the required management data. If the MnS producer receives the collected data from multiple sources, it consolidate the data into a set of management data for reporting.

The attribute "collectionTimeWindow" specifies the time window for which the management data should be reported.

The attribute "reportingCtrl" specifies the method and associated control parameters for reporting the produced management data to MnS consumers. Three methods are available: file-based reporting with selection of the file location by the MnS producer, file-based reporting with selection of the file location by the MnS consumer and stream-based reporting.

The attribute "dataScope" configures, whether the management data should be reported per S-NSSAI or per 5QI or per PLMN, if applicable.

#### 4.3.47.2 Attributes

The ManagementDataCollection IOC includes the attributes inherited from Top IOC (defined in clause 4.3.29) and the following attributes:

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| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **S** | **isReadable** | **isWritable** | **isInvariant** | **isNotifyable** |
| managementData | M | T | T | T | N/A |
| targetNodeFilter | M | T | T | T | N/A |
| collectionTimeWindow | M | T | T | T | N/A |
| reportingCtrl | M | T | T | T | N/A |
| dataScope | O | T | T | T | N/A |
| condition | O | T | T | T | N/A |

#### 4.3.47.3 Attribute constraints

None.

#### 4.3.47.4 Notifications

The common notifications defined in clause 4.5 are valid for this IOC. In addition, the following set of notifications is also valid.

| **Name** | **S** | **Notes** |
| --- | --- | --- |
| notifyFileReady | M | -- |
| notifyFilePreparationError | M | -- |

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| **End of chang** |