**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* | | | | | | | | |
| **Pesudo CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** | **-** | **rev** | **-** | **Current version:** |  |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Corrections on ANBR-based metrics reporting | | | | | | | | | |
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| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GMS\_Pro\_Ph2 | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | |  |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
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| ***Reason for change:*** | | The descriptions on the ANBR-based metrics reporting are not correct as following:   1. Descriptions on the AT Command support of bit rate recommendation is not fully correct. 2. The ANBR-based method is mainly used for the network assistance while for metrics reporting, that’s only based on the RRC interaction between UE modem and the RAN node. 3. Missing SliceScope from stage 2 specs. | | | | | | | | |
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| ***Summary of change:*** | | * Correct the ANBR-based metrics reporting as the RRC-based metrics reporting. * Add details and references on the cross-layer interaction for the metrics reporting. * Editorial corrections for metrics reporting. * Add missing Slicescope to align with stage 2 specs. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete and incorrect specs. | | | | | | | | |
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| ***Clauses affected:*** | | 5.6.3, 8.10.3.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

FIRST CHANGE

5.6.3 RRC signalling-based metrics reporting

These procedures shall be used by the Media Session Handler to control metrics reporting when such reporting is configured by the OAM via the 5G control plane, i.e. by means of RRC signalling between the UE modem and the RAN.

As described in clause L.1 of TS 26.247 [26247], the metrics configuration is delivered to the UE via RRC signalling as a container from the OAM via RAN and the Media Session Handler shall obtain its metrics configuration  using the AT Command +CAPPLEVMC or +CAPPLEVMCNR. This configuration may also include Virtual Reality metrics as specified in clause 9.3 of TS 26.118 [26118]. When a metrics configuration is received, the Media Session Handler shall store this configuration and use it for all subsequent media delivery sessions.

When a media delivery session is started the Media Session Handler shall determine whether metrics from this session shall be reported. The determination shall be based on the *sample percentage, slice scope* and *streaming source filter* specified in the stored metrics configuration, according to clause 10.5 of TS 26.247 [26247].

If metrics are to be reported for the session, the Media Session Handler shall request the Media Access Function to create a metrics collection job. The Media Access Function shall return a reference to the created job, which the Media Session Handler shall use in all subsequent actions related to this job.

The Media Session Handler shall configure the metrics collection job with the set of metrics to be collected during the media delivery session. The format of the configuration shall be according to clause L.2 of [26247], but only the *metrics* attribute in the configuration shall be used for this purpose.

The Media Session Handler shall regularly request the collected metrics from the Media Access Function according to the *reportingInterval* specified in the metrics configuration. The metrics returned by the Media Access Function shall use the format as described in clause 10.6.2 of [26247], and (for Virtual Reality media) in clause 9.4.3 of TS 26.118 [26118]. The Media Session Handler shall forward these to the UE modem using the AT command +CAPPLEVMR or +CAPPLEVMRNR. As a result, the UE modem sends metrics reports to the RAN by means of RRC signalling which are then forwarded to the OAM according to clause L.1 of [26247].

When the media delivery session is finished the Media Session Handler shall destroy the metrics collection job.

Second CHANGE

#### 8.10.3.1 MetricsReportingConfiguration resource

Table 8.10.3‑1: Definition of MetricsReportingConfiguration resource

| Property name | Type | Cardinality | Description |
| --- | --- | --- | --- |
| metricsReportingConfigurationId | ResourceId | 1..1 | An identifier for this Metrics Reporting Configuration assigned by the Media AF that is unique within the scope of the enclosing Provisioning Session. |
| *sliceScope* | array(Snssai) | 0..1 | The set of network slice(s) for which metrics collection and reporting shall be executed in connection with this metrics reporting configuration (see NOTE).  If present, the array shall identify at least one network slice.  If not specified, metrics shall be collected and reported for all network slices. |
| scheme | Uri | 0..1 | The QoE metrics scheme associated with this Metrics Reporting Configuration.  Omitting this property signals to the Media AF that metrics reporting is currently disabled for the Provisioning Session in question. |
| dataNetworkName | Dnn | 0..1 | Identifies the Data Network which shall be used when sending metrics reports.  If not specified, the default Data Network shall be used. |
| reportingInterval | DurationSec | 0..1 | The time interval between successive metrics reports to be sent by the Media Session Handler. The value shall be greater than zero.  If not specified, a single final report shall be sent after the media delivery session has ended. |
| samplePercentage | Percentage | 0..1 | The proportion of media delivery sessions for which QoE metrics shall be reported, expressed as a floating-point value between 0.0 and 100.0.  If not specified, reports shall be sent for all media delivery sessions. |
| urlFilters | array(string) | 0..1 | If present, a non-empty list of Media Entry Point URL patterns for which QoE metrics shall be reported.  If not specified, reporting shall be done for all media delivery sessions initiated within the scope of the parent Provisioning Session. |
| samplingPeriod | DurationSec | 1..1 | The time interval the Media Client should wait between sampling the QoE metrics specified by this Metrics Reporting Configuration. |
| metrics | array(String) | 0..1 | If present, a non-empty list of QoE metrics which shall be collected and reported by the Media Client.  A controlled vocabulary of QoE metrics shall be specified by each metrics scheme for use with this property.  If omitted, the complete (or default, as applicable) set of metrics associated with the specified metrics scheme shall be collected and reported. |
| NOTE: The Snssai data type is specified in TS 29.571 [29571]. | | | |