**3GPP TSG-SA4 Meeting #117e *S4-220xxx***

**Electronic meeting, Telco, February 14-23, 2022**

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| *CR-Form-v12.0* |
| **Draft CHANGE REQUEST** |
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|  | **26.114** | **CR** |  | **rev** |  | **Current version:** | **17.3.0** |  |
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| *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:***  | Requirement on UE Behavior regarding QoE Measurement and Reporting |
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| ***Source to WG:*** |  Qualcomm Incorporated |
| ***Source to TSG:*** | SA4 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2022-02-11 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *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 canbe 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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | Clause 16.3 contains the following requirement on UE behavior with regards to QoE measurement and reporting:“The QoE configuration shall only be checked by the client when each session starts, and thus all logging and reporting criterias for an ongoing session shall be unaffected by any QoE configuration changes received during that session. This also includes evaluation of any filtering criterias, such as geographical filtering, which shall only be done when the session starts. Thus changes to the QoE configuration will only affect sessions started after these configuration changes have been received.”The above description contains ambiguity subject to different interpretations for implementation. In particular, with regards to identical requirement laguage in TS 26.247, RAN2 has informed SA4 of lack of common understanding of that requirement in RAN2 which could impede progress of their Rel-17 NR\_QoE work item.Shortcomings and defects in the wording of the requirements are cited below:* It is unclear whether the word “session” in the above requirement language refers to an “MTSI session” or a “QoE (measurement and reporting) session”, and should be clarified since these two session types, are not equivalent.
* It is unclear whether there is a semantics difference between the words “check” and “evaluate” in the requirement description, and if so, preferably a single term should be used.
* The phrase “thus all logging and reporting criterias for an ongoing session shall be unaffected by any QoE configuration changes received during that session” in the 1st sentence seems to be missing the key word “evaluation” before “all”.
* What does “This” in the 2nd sentence of the requirement refer to – the first phrase or the second phrase of the 1st sentence as separated by the comma?
* Regarding the term “geographical filtering” in the 2nd sentence, it is unclear whether it refers to a) target area criteria or b) the evaluation of the target area criteria.
* Lastly, in consideration of the lack of clarity/precision cited in the above points, it is unclear what the “Thus” summary in last sentence exactly refers to – the configuration information itself or the client’s evaluation of the configuration information.
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| ***Summary of change:*** | Rewording of the aforementioned requirement text to fix existing ambiguity and imprecise semantics. |
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| ***Consequences if not approved:*** | Existing ambiguity in the specification could lead to different implementations which cannot interoperate, and impede other TSG work items with dependency on TS 26.114. |
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| ***Clauses affected:*** | 16.3 |
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|  | **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 ...  |
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| ***Other comments:*** |  |
| ***56***  |  |
| ***This CR's revision history:*** |  |

START OF CHANGE

## 16.3 Metric Configuration

An MTSI client supporting the QoE metrics feature shall support the OMA-DM solution specified in this clause for configuration of QoE metrics and their activation. The MTSI client shall also support the QMC functionality specified in clause 16.5 for configuration of QoE metrics.

The QoE configuration shall only be evaluated by the client at the start of a QoE measurement and reporting session (“QoE session”) associated with a MTSI session. This includes evaluation of any filtering criteria such as by geographical area. Client evaluation of all measurement and reporting criterias for an ongoing QoE session shall be unaffected by any QoE configuration changes received during that session – i.e., any changes to the QoE configuration shall only affect QoE sessions started after these configuration changes have been received.

If an MTSI client uses the OMA-DM configuration feature, it is mandatory for the MTSI client to implement the Management Object (MO) as described in this clause.

The 3GPP MTSIQOE (MTSI QoE metrics) MO defined in this clause may be used to configure the QoE metrics and reporting settings.

The metrics specified in the MO may be derived by the MTSI client. Version numbering is included for possible extension of the MO.

The Management Object Identifier shall be: urn:oma:mo:ext-3gpp-mtsiqoe:1.0.

Protocol compatibility: The MO is compatible with OMA Device Management protocol specifications, version 1.2 and upwards, and is defined using the OMA DM Device Description Framework as described in the Enabler Release Definition OMA-ERELD \_DM-V1\_2 [67].

END OF CHANGE