**3GPP TSG- Meeting #**

**Goteborg, Sweden, 25 – 29 August 2025 (Revision of C3-253400))**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **1097** | **rev** | **1** | **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 |  | Radio Access Network |  | Core Network | **x** |

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|  | | | | | | | | | | |
| ***Title:*** | Resolve ENs in QoS and Policy Assistance Analytics | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | , Huawei | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AIML\_CN | | | | |  | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The left editor’s notes in QosPolicyAssistReq, QosPolicyAssistInfo, QosPolicyAssistSet and QosPara data types need to be resolved to fully align with the stable stage 2 requirements does not need a new attribute for QoE threshold, no requirements to include UE Id in QosPolicyAssistInfo data type, variance is still required in predicted QoE and the contents of the QosPara data type can meet the stage 2 requirement.  Hence the corresponding ENs can be removed accordingly and need to describe more clearly for requested QoE in the QosPolicyAssistReq data type. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Removed the editor’s notes in clauses 5.1.6.2.113, 5.1.6.2.114, 5.1.6.2.115 and 5.1.6.2.117.  Updated the table description for requested QoE in the QosPolicyAssistReq data type. Keep the existing contents in other affected data types upon aligned with the existing stage 2 requirements. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Left editor’s notes are not resolved in QoS and Policy Assistance Analytics. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.1.6.2.113, 5.1.6.2.114, 5.1.6.2.115, 5.1.6.2.117 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | The CR does not impact the OpenAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

##### 5.1.6.2.113 Type QosPolicyAssistReq

Table 5.1.6.2.113-1: Definition of type QosPolicyAssistReq

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| orderCriterion | QosPolOrderCriterion | O | 0..1 | The ordering criterion for the list of QoS and Policy Assistance analytics. |  |
| orderDirection | MatchingDirection | O | 0..1 | Indicates the order: ascending or descending. May be present when the "orderCriterion" attribute is included. (NOTE) |  |
| ratTypes | array(RatType) | O | 1..N | Indicates the list of RAT type(s) for which the QoS and Policy Assistance information is requested. |  |
| freqs | array(ArfcnValueNR) | O | 1..N | Indicates the list of carrier frequency value(s) for which the QoS and Policy Assistance information is requested. |  |
| qosParamSets | array(QosPara) | M | 1..N | Candidate QoS Parameter Sets for which a QoE prediction is requested. |  |
| requestedQoe | Float | O | 0..1 | Indicates the requested QoE MOS value.  The NWDAF should only provide the QoS parameter set(s) and their corresponding value(s) for which the predicted QoE is equal to, or higher than the requested QoE. |  |
| NOTE: The "CROSSED" value in "MatchingDirection" date type is not applicable for this attribute. | | | | | |

\*\*\* 2nd Change \*\*\*

##### 5.1.6.2.114 Type QosPolicyAssistInfo

Table 5.1.6.2.114-1: Definition of type QosPolicyAssistInfo

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| qosPolAssistInfo | array(QosPolicyAssistSetsPerTS) | M | 1..N | List of QoS and Policy Assistance information for the target UE containing the candidate QoS parameter set(s). |  |

\*\*\* 3rd Change \*\*\*

##### 5.1.6.2.115 Type QosPolicyAssistSet

Table 5.1.6.2.115-1: Definition of type QosPolicyAssistSet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| qosParamSet | QosPara | O | 0..1 | Identifies the QoS parameter Set information. |  |
| dnn | Dnn | C | 0..1 | Identifies DNN, a full DNN with both the Network Identifier and Operator Identifier, or a DNN with the Network Identifier only.  Shall be present if the "dnns" was provided within EventSubscription during the subscription for event notification procedure. |  |
| appId | ApplicationId | C | 0..1 | Contains the application identifier. (NOTE 1) |  |
| fDescs | array(IpEthFlowDescription) | C | 1..N | Contains the flow description for IP and/or Ethernet flows of the application.  (NOTE 1) |  |
| appDuration | DurationSec | O | 0..1 | Indicates the duration for the corresponding application. |  |
| predictedAvgQoe | Float | C | 0..1 | Indicates the MOS value of predicted average QoE for the application when the corresponding QoS parameter set is applied.  (NOTE 2) (NOTE 3) |  |
| predictedMaxQoe | Float | C | 0..1 | Indicates the MOS value of predicted maximum QoE for the application when the corresponding QoS parameter set is applied.  (NOTE 2) |  |
| predictedMinQoe | Float | C | 0..1 | Indicates the MOS value of predicted minimum QoE for the application when the corresponding QoS parameter set is applied.  (NOTE 2) |  |
| predQoeVariance | Float | C | 0..1 | Indicates the MOS value of the predicated QoE variance.  (NOTE 2) |  |
| qosPolTimeWin | TimeWindow | O | 0..1 | Indicates the applicable time window of the QoS and Policy Assistance information. |  |
| ratTypes | array(RatType) | O | 1..N | Indicates the list of RAT type(s) for which the QoS and Policy Assistance information is applied. |  |
| freqs | array(ArfcnValueNR) | O | 1..N | Indicates the list of carrier frequency value(s) for which the QoS and Policy Assistance information is applied. |  |
| validityPeriod | TimeWindow | O | 0..1 | The validity period within the time slot for the QoS and Policy Assistance information analytics. |  |
| spatialValidity | NetworkAreaInfo | O | 0..1 | The area where the service behavior applies. |  |
| maxQoSFlowUsgDur | DurationSec | O | 0..1 | Indicates the maximum usage duration of the QoS Flows associated to QoS parameter set. |  |
| minQoSFlowUsgDur | DurationSec | O | 0..1 | Indicates the minimum usage duration of the QoS Flows associated to QoS parameter set. |  |
| avgQoSFlowUsgDur | DurationSec | O | 0..1 | Indicates the average usage duration of the QoS Flows associated to QoS parameter set. |  |
| qosFlowUsgNumber | Uinteger | O | 0..1 | Indicates the number of times to be used for the QoS Flows associated to QoS parameter set. |  |
| NOTE 1: One of the "fDescs" attribute or "appId" attribute shall be provided.  NOTE 2: At least one of "predictedAvgQoe", "predictedMaxQoe", "predictedMinQoe" and/or "predQoeVariance" attributes within the "qosParamSet" attribute shall be present.  NOTE 3: If the "orderCriterion" attribute was provided in the request and the value was set to "USAGE\_DURATION", the analytics results will be provided according to the value of the "avgUsageDur" attribute. | | | | | |

\*\*\* 4th Change \*\*\*

##### 5.1.6.2.117 Type QosPara

Table 5.1.6.2.117-1: Definition of type QosPara

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| qosParamSetId | string | C | 0..1 | QoS parameter set identifier which can be used to identify a set of QoS parameters.  Shall be provided in the report when the “qosParamSetId” attribute is included in the request message. |  |
| 5qi | 5Qi | O | 0..1 | The 5G QoS Identifier.  (NOTE 1) |  |
| priorityLvl | 5QiPriorityLevel | O | 0..1 | The 5QI Priority Level. |  |
| rscType | QosResourceType | O | 0..1 | The 5QI resource type. |  |
| pdb | PacketDelBudget | O | 0..1 | The packet delay budget. |  |
| per | PacketErrRate | O | 0..1 | The packet error rate. |  |
| gbrUl | BitRate | O | 0..1 | The Guaranteed Bit Rate for UL.  (NOTE 2) |  |
| gbrDl | BitRate | O | 0..1 | The Guaranteed Bit Rate for DL.  (NOTE 2) |  |
| mbrUl | BitRate | O | 0..1 | The Maximum Bit Rate for UL.  (NOTE 2) |  |
| mbrDl | BitRate | O | 0..1 | The Maximum Bit Rate for DL.  (NOTE 2) |  |
| maxPlrUl | PacketLossRate | O | 0..1 | The Maximum Packet Loss Rate for UL. |  |
| maxPlrDl | PacketLossRate | O | 0..1 | The Maximum Packet Loss Rate for DL. |  |
| avgWin | AverWindow | O | 0..1 | The averaging window. |  |
| maxDataBurstVol | MaxDataBurstVol | O | 0..1 | The maximum data burst volume. |  |
| NOTE 1: The "5qi" attribute may be present for standardized or pre-configured QoS parameters and QoS characteristics.  NOTE 2: These attributes may be present for a GBR resource type. | | | | | |

\*\*\* End of Changes \*\*\*