**3GPP TSG-CT WG3 Meeting #108-eC3-201152**

**E-Meeting, 19th – 28th February 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.513** | **CR** | **0111** | **rev** | **<Rev#>** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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 |  | Core Network | **X** |

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| ***Title:*** | QoS parameter mapping at SMF update for V2X | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eV2XARC | | | | |  | ***Date:*** | | | 2020-02-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | QoS Flow Binding needs to be considered for the case that a PCC Rule includes Alternative QoS Parameter Set(s). (S2-2001690)  So the QoS parameter mapping at SMF shall also consider the alternative QoS Parameter Set(s). | | | | | | | | |
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| ***Summary of change:*** | | Alternative QoS Paramter Set(s) are considered when performing the QoS parameter mapping at the SMF | | | | | | | | |
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| ***Consequences if not approved:*** | | Unclear QoS Flow Binding mechanism related to Alternative QoS Parameter Sets. | | | | | | | | |
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| ***Clauses affected:*** | | 7.4 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 23.503 ... CR#0390 | | |
| ***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 \* \* \* \*

## 7.4 QoS parameter mapping Functions at SMF

Table 7.4.1: Rules for derivation of the Authorized QoS Parameters per QoS flow  
from the Authorized QoS Parameters in SMF

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| --- | --- |
| Authorized QoS Parameter per QoS flow (NOTE 1) | Derivation from Authorized QoS Parameters |
| **Maximum Authorized Bandwidth DL and UL per QoS flow** | Maximum Authorized Bandwidth DL/UL per QoS flow = Sum of Maximum Authorized Data Rate DL/UL for all PCC rules bound to that Qos flow |
| **Guaranteed Authorized Data Rate DL and UL per QoS flow** | Guaranteed Authorized Data Rate DL/UL per QoS flow = Sum of Guaranteed Authorized Data Rate DL/UL for all PCC rules bound to that QoS flow |
| **Session-AMBR DL and UL** | For all non-GBR QoS flows, Session-AMBR DL/UL is applied. |
| **5QI** | 5QI from PCC rules having the same value combination of 5QI/ARP/QNC/PL/AW/MDBV/Alternative QoS Parameter Set(s)is used. |
| **ARP** | ARP from PCC rules having the same value combination of 5QI/ARP/QNC/PL/AW/MDBV  /Alternative QoS Parameter Set(s)is used. |
| **QNC** | QNC from PCC rules having the same value combination of 5QI/ARP/QNC/PL/AW/MDBV  /Alternative QoS Parameter Set(s)is used. |
| **Priority Level (PL)** | PL from PCC rules having the same value combination of 5QI/ARP/QNC/PL/AW/MDBV  /Alternative QoS Parameter Set(s)is used. |
| **Averaging Window (AW)** | AW from PCC rules having the same value combination of 5QI/ARP/QNC/PL/AW/MDBV  /Alternative QoS Parameter Set(s)is used. Applicable for GBR QoS flow. |
| **Maximum Data Burst Volume (MDBV)** | MDBV from PCC rules having the same value combination of 5QI/ARP/QNC/PL/AW/MDBV  /Alternative QoS Parameter Set(s)is used. Applicable for GBR QoS flow of delay critical type. |
| **RQI** | RQI from PCC rules is used per service data flow. Applicable for non-GBR QoS flows. |
| **Maximum Packet Loss Rate DL and UL per QoS flow** | Minimum maximum packet loss rate DL/UL among all PCC rules bound to that QoS flow. Applicable for GBR QoS flows. |
| NOTE: For unstructured PDU session type, only default 5QI and ARP of the QoS Flow associated with the default QoS rule, and Session-AMBR are applicable. | |

\* \* \* \* end of change \* \* \* \*