**3GPP TSG-RAN2 Meeting #109e *R2-2001722***

**Electronic meeting, 24th February – 6th March, 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **36.300** | **CR** | **1240** | **rev** | **5** | **Current version:** | **16.0.0** |  |
|  |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |

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|  |
| ***Title:***  | Missing QCI to CAPC mapping |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | **LTE\_unlic-Core**  |  | ***Date:*** | 2020-03-02 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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 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)* |
|  |  |
| ***Reason for change:*** | Reasons for change:1. SA2 has added new QCIs **71, 72, 73, 74 and 76** in release 16 into 23.203. We need to have mapping of those QCIs to CAPC in order to avoid unspecified behaviour.
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| ***Summary of change:*** | 1. QCI 71 belongs to CAPC 2 (delay budget is 150ms), while for the others (72-74 and 76) mapping to CAPC 3 seems to be the appropriate (their delay budget is 300ms or higher).
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| ***Consequences if not approved:*** | There would be unspecified behaviour for mapping 16 QCIs to CAPC. |
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| ***Clauses affected:*** | 5.7.1 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

*First Modified Subclause*

### 5.7.1 Channel Access Priority Classes

Four Channel Access Priority Classes (CAPC) are defined in TS 37.213 [90] which can be used when performing uplink and downlink transmissions in LAA carriers. Table 5.7.1-1 shows which Channel Access Priority Class should be used by traffic belonging to the different standardized QCIs. A non-standardized QCI (i.e. Operator specific QCI) should use suitable Channel Access Priority Class based on the below table, i.e. the Channel Access Priority Class used for a non-standardized QCI should be the Channel Access Priority Class of the standardized QCIs which best matches the traffic class of the non-standardized QCI.

For uplink, the eNB selects the Channel Access Priority Class by taking into account the lowest priority QCI in a Logical Channel Group.

Table 5.7.1-1: Mapping between Channel Access Priority Classes and QCI

|  |  |
| --- | --- |
| Channel Access Priority Class () | QCI |
| 1 | 1, 3, 5, 65, 66, 67, 69, 70, 79, 80, 82, 83, 84, 85 |
| 2 | 2, 7, 71 |
| 3 | 4, 6, 8, 9, 72, 73, 74, 76 |
| 4 | - |

*Next Modified Subclause*