**3GPP TSG-CT WG1 Meeting #123-eC1-202537**

**Electronic meeting, 16-24 April 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **27.007** | **CR** | **0686** | **rev** | **-** | **Current version:** | **16.4.0** |  |
|  |
| *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 |  | Core Network |  |

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|  |
| ***Title:***  | Unsupported 5QI values  |
|  |  |
| ***Source to WG:*** | MediaTek Inc. |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5GProtoc16 |  | ***Date:*** | 2020-04-07 |
|  |  |  |  |  |
| ***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)* |
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| ***Reason for change:*** | Based on TS 23.501 Table 5.7.4-1, the UE is not allowed to request 5QI values 65, 66, 67, 69 and 70. If the TE request any of those 5QI values in +C5GQOS command, the MT shall response with error (other than sending corresponding 5GSM request to the network).+CGEQOS has already defined the corresponding handlings:*The QCI values 65, 66, 67, 69 and 70 are not allowed to be requested by the UE. If the TE requests a QCI parameter 65, 66, 67, 69 or 70, the MT responds with result code +CME ERROR: 181 (unsupported QCI value).* |
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| ***Summary of change:*** | The 5QI values 65, 66, 67, 69 and 70 are not allowed to be requested by the UE. If the TE requests a 5QI parameter 65, 66, 67, 69 or 70, the MT responds with result code +CME ERROR: 181 (unsupported QCI value). |
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| ***Consequences if not approved:*** | The TE is allowed to send 5GSM message to requst a QoS flow with unsupported 5QI. |
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| ***Clauses affected:*** | 10.1.49 |
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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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\*\*\* Next change \*\*\*\*\*

### 10.1.49 Define 5GS quality of service +C5GQOS

Table 10.1.49-1: +C5GQOS parameter command syntax

| Command | Possible Response(s) |
| --- | --- |
| +C5GQOS=[<cid>[,<5QI>[,<DL\_GFBR>,<UL\_GFBR>[,<DL\_MFBR>,<UL\_MFBR]]]] | *+CME ERROR: <err>* |
| +C5GQOS? | [+C5GQOS: <cid>,<5QI>[,<DL\_GFBR>,<UL\_GFBR>[,<DL\_MFBR>,<UL\_MFBR>]]][<CR><LF>+C5GQOS: <cid>,<5QI>,[<DL\_GFBR>,<UL\_GFBR>[,<DL\_MFBR>,<UL\_MFBR>]][...]] |
| +C5GQOS=? | +C5GQOS: (range of supported <cid>s),(list of supported <5QI>s),(list of supported <DL\_GFBR>s),(list of supported <UL\_GFBR>s),(list of supported <DL\_MFBR>s),(list of supported <UL\_MFBR>s) |

**Description**

The set command allows the TE to specify the 5GS Quality of Service parameters <cid>, <5QI>, [<DL\_GFBR> and <UL\_GFBR>] and [<DL\_MFBR> and <UL\_MFBR>] for a QoS flow (see 3GPP TS 23.501 [165] and 3GPP TS 24.501 [161]). Refer subclause 9.2 for possible <err> values.

A special form of the set command, +C5GQOS= <cid> causes the values for context number <cid> to become undefined.

The read command returns the current settings for each defined QoS.

The test command returns the ranges of the supported parameters as compound values.

**Defined values**

<cid>: integer type; specifies a particular QoS flow definition, EPS Traffic Flows definition and a PDP Context definition (see the +CGDCONT and +CGDSCONT commands).

<5QI>: integer type; specifies a class of 5GS QoS (see 3GPP TS 23.501 [165] and 3GPP TS 24.501 [161]).

0 5QI is selected by network

[1 – 4] value range for guaranteed bit rate QoS flows

[71 – 76] value range for guaranteed bit rate QoS flows

[5 – 9] value range for non-guaranteed bit rate QoS flows

79, 80 values for non-guaranteed bit rate QoS flows

[82 – 85] value range for delay critical guaranteed bit rate QoS flows

[128 – 254] value range for Operator-specific 5QIs

The 5QI values 65, 66, 67, 69 and 70 are not allowed to be requested by the UE. If the TE requests a 5QI parameter 65, 66, 67, 69 or 70, the MT responds with result code +CME ERROR: 181 (unsupported QCI value).

<DL\_GFBR>: integer type; indicates DL GFBR in case of GBR 5QI. The value is in kbit/s. This parameter is omitted for a non-GBR 5QI (see 3GPP TS 24.501 [161]).

<UL\_GFBR>: integer type; indicates UL GFBR in case of GBR 5QI. The value is in kbit/s. This parameter is omitted for a non-GBR 5QI (see 3GPP TS 24.501 [161]).

<DL\_MFBR>: integer type; indicates DL MFBR in case of GBR 5QI. The value is in kbit/s. This parameter is omitted for a non-GBR 5QI (see 3GPP TS 24.501 [161]).

<UL\_MFBR>: integer type; indicates UL MFBR in case of GBR 5QI. The value is in kbit/s. This parameter is omitted for a non-GBR 5QI (see 3GPP TS 24.501 [161]).

**Implementation**

Optional.