**3GPP TSG-RAN WG2 Meeting #110 electronic *R2-2005477***

**1 June – 12 June 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.331** | **CR** | **CRNum** | **rev** | **RevNum** | **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:***  | Introduction of NR eURLLC capabilities |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_L1enh\_URLLC |  | ***Date:*** | 2020-06-01 |
|  |  |  |  |  |
| ***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 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:*** | **RAN2#109e*** In Rel-16 NR, allow the value of 0.5 ms for the PDCP discard timer in URLLC WI.
* In Rel-16 NR, do not introduce additional values of bucket size duration in URLLC WI.
* In Rel-16 NR, do not introduce additional values of logical channel priority in URLLC WI.
* In Rel-16 NR, additional values of PDCP discard timer is optional with a separate UE capability signalling.
* In Rel-16 NR, additional values of RLC T-StatusProhibit timer is optional with a separate UE capability signalling.
* In Rel-16 NR, additional values of RLC T-PollRetransmit timer is optional with a separate UE capability signalling.

The above agreements should be captured into the TS 38.306. |
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| ***Summary of change:*** | 1. In subclause 6.3.3, add UE capability parameter for short values of PDCP discard timers
2. In subclause 6.3.3, add UE capability parameters for short values of RLC T-PollRetransmit and T-StatusProhibit timers, respectively.
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| ***Consequences if not approved:*** | If the CR is not approved, the features of short vaules of PDCP discard timers, RLC T-PollRetransmit and T-StatusProhibit are not supported. |
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| ***Clauses affected:*** | 6.3.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.306 |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

*START OF CHANGES*

– *PDCP-Parameters*

The IE *PDCP-Parameters* is used to convey capabilities related to PDCP.

***PDCP-Parameters* information element**

-- ASN1START

-- TAG-PDCP-PARAMETERS-START

PDCP-Parameters ::= SEQUENCE {

 supportedROHC-Profiles SEQUENCE {

 profile0x0000 BOOLEAN,

 profile0x0001 BOOLEAN,

 profile0x0002 BOOLEAN,

 profile0x0003 BOOLEAN,

 profile0x0004 BOOLEAN,

 profile0x0006 BOOLEAN,

 profile0x0101 BOOLEAN,

 profile0x0102 BOOLEAN,

 profile0x0103 BOOLEAN,

 profile0x0104 BOOLEAN

 },

 maxNumberROHC-ContextSessions ENUMERATED {cs2, cs4, cs8, cs12, cs16, cs24, cs32, cs48, cs64,

 cs128, cs256, cs512, cs1024, cs16384, spare2, spare1},

 uplinkOnlyROHC-Profiles ENUMERATED {supported} OPTIONAL,

 continueROHC-Context ENUMERATED {supported} OPTIONAL,

 outOfOrderDelivery ENUMERATED {supported} OPTIONAL,

 shortSN ENUMERATED {supported} OPTIONAL,

 pdcp-DuplicationSRB ENUMERATED {supported} OPTIONAL,

 pdcp-DuplicationMCG-OrSCG-DRB ENUMERATED {supported} OPTIONAL,

 ...,

 [[

 extendedDiscardTimer-r16 ENUMERATED {supported} OPTIONAL

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}

-- TAG-PDCP-PARAMETERS-STOP

-- ASN1STOP

*NEXT CHANGES*

– *RLC-Parameters*

The IE *RLC-Parameters* is used to convey capabilities related to RLC.

***RLC-Parameters* information element**

-- ASN1START

-- TAG-RLC-PARAMETERS-START

RLC-Parameters ::= SEQUENCE {

 am-WithShortSN ENUMERATED {supported} OPTIONAL,

 um-WithShortSN ENUMERATED {supported} OPTIONAL,

 um-WithLongSN ENUMERATED {supported} OPTIONAL,

 ...,

 [[

 extendedT-PollRetransmit-r16 ENUMERATED {supported} OPTIONAL,

 extendedT-StatusProhibit-r16 ENUMERATED {supported} OPTIONAL

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}

-- TAG-RLC-PARAMETERS-STOP

-- ASN1STOP

*END OF CHANGES*