**3GPP TSG-RAN WG2 Meeting #118 electronic *R2-22xxxxx***

**Online, May 9-20, 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.331** | **CR** | **Draft** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  |
| *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:***  | Corrections on UDC capability |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_UDC-Core |  | ***Date:*** | 2022-05-19 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | At RAN2#118-e meeting, some agreements on UDC capability have been made:* A UE that supports the uplink data compression operation shall support 2048 bytes for compression buffer per UDC DRB and support up to 2 UDC DRBs.
* UE capability on compression buffer size, e.g. ENUMERATED {4096bytes, 8192bytes}.

This CR is to capture these agreements in this specification. |
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| ***Summary of change:*** | A new UE capability supportOfBufferSize-r17 is added, and the UE capable of *udc-r17* can indicate 4096 bytes or 8192 bytes for compression buffer per UDC DRB*.* |
|  |  |
| ***Consequences if not approved:*** | RAN2 agreements are not captured in this specification. |
|  |  |
| ***Clauses affected:*** | 6.3.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.306 CRXXXX |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

6.3.3 UE capability information elements

*<Partially omitted>*

– *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,

 ...,

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 drb-IAB-r16 ENUMERATED {supported} OPTIONAL,

 non-DRB-IAB-r16 ENUMERATED {supported} OPTIONAL,

 extendedDiscardTimer-r16 ENUMERATED {supported} OPTIONAL,

 continueEHC-Context-r16 ENUMERATED {supported} OPTIONAL,

 ehc-r16 ENUMERATED {supported} OPTIONAL,

 maxNumberEHC-Contexts-r16 ENUMERATED {cs2, cs4, cs8, cs16, cs32, cs64, cs128, cs256, cs512,

 cs1024, cs2048, cs4096, cs8192, cs16384, cs32768, cs65536} OPTIONAL,

 jointEHC-ROHC-Config-r16 ENUMERATED {supported} OPTIONAL,

 pdcp-DuplicationMoreThanTwoRLC-r16 ENUMERATED {supported} OPTIONAL

 ]],

 [[

 longSN-RedCap-r17 ENUMERATED {supported} OPTIONAL,

 udc-r17 SEQUENCE {

 standardDictionary-r17 ENUMERATED {supported} OPTIONAL,

 operatorDictionary-r17 SEQUENCE {

 versionOfDictionary-r17 INTEGER (0..15),

 associatedPLMN-ID-r17 PLMN-Identity

 } OPTIONAL,

 continueUDC-r17 ENUMERATED {supported} OPTIONAL

 } OPTIONAL

 ]],

 [[

 supportOfBufferSize-r17 ENUMERATED {kbyte4, kbyte8} OPTIONAL

 ]]

}

-- TAG-PDCP-PARAMETERS-STOP

-- ASN1STOP