**3GPP TSG-RAN2 Meeting #110-e *draft R2-200xxxx***

**eMeeting, 1st – 12th June, 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.306** | **CR** | **0320** | **rev** | **1** | **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 UE capability requirements | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2020-06-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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:*** | | The ROHC profiles that an IMS voice capable UE shall support, according to *GSMA PRD NG.114, IMS Profile for Voice, Video and SMS over 5G*, are missing.  The IMS emergency call feature is missing in clause 6. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | It is clarified that an IMS voice capable UE shall IMS voice capable UE shall indicate support of ROHC profiles 0x0000, 0x0001, 0x0002 and be able to compress and decompress headers of PDCP SDUs at a PDCP SDU rate corresponding to supported IMS voice codecs.  The IMS emergency call is added to clause 6.  **Impact analysis**    Impacted functionality: UE capability    Inter-operability:  There is no interoperability issues of this CR. | | | | | | | | |
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| ***Consequences if not approved:*** | | It remains ambiguous what ROHC profiles an IMS voice capable UE shall support. For some features it remains ambiguous whether they are optional or mandatory. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.4, 6 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

**<Start of modified section>**

### 4.2.4 PDCP Parameters

| Definitions for parameters | Per | M | FDD-TDD DIFF |
| --- | --- | --- | --- |
| ***continueROHC-Context***  Defines whether the UE supports ROHC context continuation operation where the UE does not reset the current ROHC context upon PDCP re-establishment, as specified in TS 38.323 [16]. | UE | No | No |
| ***maxNumberROHC-ContextSessions***  Defines the maximum number of header compression context sessions supported by the UE, excluding context sessions that leave all headers uncompressed. | UE | No | No |
| ***outOfOrderDelivery***  Indicates whether UE supports out of order delivery of data to upper layers by PDCP. | UE | No | No |
| ***pdcp-DuplicationMCG-OrSCG-DRB***  Indicates whether the UE supports CA-based PDCP duplication over MCG or SCG DRB as specified in TS 38.323 [16]. | UE | No | No |
| ***pdcp-DuplicationSplitDRB***  Indicates whether the UE supports PDCP duplication over split DRB as specified in TS 38.323 [16]. | UE | No | No |
| ***pdcp-DuplicationSplitSRB***  Indicates whether the UE supports PDCP duplication over split SRB1/2 as specified in TS 38.323 [16]. | UE | No | No |
| ***pdcp-DuplicationSRB***  Indicates whether the UE supports CA-based PDCP duplication over SRB1/2 and/or, if EN-DC is supported, SRB3 as specified in TS 38.323 [16]. | UE | No | No |
| ***shortSN***  Indicates whether the UE supports 12 bit length of PDCP sequence number. | UE | Yes | No |
| ***supportedROHC-Profiles***  Defines which ROHC profiles from the list below are supported by the UE:  - 0x0000 ROHC No compression (RFC 5795)  - 0x0001 ROHC RTP/UDP/IP (RFC 3095, RFC 4815)  - 0x0002 ROHC UDP/IP (RFC 3095, RFC 4815)  - 0x0003 ROHC ESP/IP (RFC 3095, RFC 4815)  - 0x0004 ROHC IP (RFC 3843, RFC 4815)  - 0x0006 ROHC TCP/IP (RFC 6846)  - 0x0101 ROHC RTP/UDP/IP (RFC 5225)  - 0x0102 ROHC UDP/IP (RFC 5225)  - 0x0103 ROHC ESP/IP (RFC 5225)  - 0x0104 ROHC IP (RFC 5225)  A UE that supports one or more of the listed ROHC profiles shall support ROHC profile 0x0000 ROHC uncompressed (RFC 5795).  An IMS voice capable UE shall indicate support of ROHC profiles 0x0000, 0x0001, 0x0002 and be able to compress and decompress headers of PDCP SDUs at a PDCP SDU rate corresponding to supported IMS voice codecs. | UE | No | No |
| ***uplinkOnlyROHC-Profiles***  Indicates the ROHC profile(s) that are supported in uplink-only ROHC operation by the UE.  - 0x0006 ROHC TCP (RFC 6846)  A UE that supports uplink-only ROHC profile(s) shall support ROHC profile 0x0000 ROHC uncompressed (RFC 5795). | UE | No | No |

**<End of modified section>**

**<Start of modified section>**

# 6 Conditionally mandatory features without UE radio access capability parameters

| Features | Condition |
| --- | --- |
| Skipping UL configured grant if no data to transmit. | Either *configuredUL-GrantType1* or *configuredUL-GrantType2* is supported. |
| Downlink SDAP header | Either NAS reflective QoS or *as-ReflectiveQoS* is supported. |
| IMS emergency call | It is mandatory to support IMS emergency call for UEs which are IMS voice capable in NR. |

**<End of modified section>**