**3GPP TSG-RAN5 Meeting #99 *R5-23XXXX***

**Incheon, Korea (Republic Of), 22nd May 2023 - 26th May 2023**

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| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **36.523-2** | **CR** | **XXXX** | **rev** | **-** | **Current version:** | **18.0.0** |  |
|  |
| *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 |  | Radio Access Network |  | Core Network |  |

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|  |
| ***Title:***  | Update to NTN PICS parameters |
|  |  |
| ***Source to WG:*** |  Qualcomm Incorporated, MediaTek Inc. |
| ***Source to TSG:*** | R5 |
|  |  |
| ***Work item code:*** | LTE\_NBIOT\_eMTC\_NTN\_plus\_EPS-UEConTest |  | ***Date:*** | 2023-05-24 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* *Rel-19 (Release 19)* |
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| ***Reason for change:*** | Based on the discussion paper R5-233161, it is recommended to have RAT specific PICS parameters for NTN features. |
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| ***Summary of change:*** | Existing parameters are updated for NB-IOT and new parameters added for CAT-M1. |
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| ***Consequences if not approved:*** | A conformant UE supporting only NTN RAT may unfairly fail the test case. |
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| ***Clauses affected:*** | 4.1 |
|  |  |
|  | **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:*** | TTCN ImpactSecretray to resolve KKK, LLL, XXX, YYY, ZZZ, AAA, BBB, CCC. |
|  |  |
| ***This CR's revision history:*** |  |

<Start of modified section>

## A.4.4 Additional information

Table A.4.4-1: Additional information

| Item | Additional information | Ref. | Release | Mnemonic | Comments |
| --- | --- | --- | --- | --- | --- |
| 1 | Support of USIM removal without power down |  | Rel-8 | pc\_USIM\_Removal |  |
| 2 | Support of Allowed CSG list | 36.331 Annex B.2 | Rel-8 | pc\_Allowed\_CSG\_list | For Rel-8: CSG autonomous search is optional.For Rel-9 or later releases: CSG autonomous search is mandatory for UEs supporting CSG full functionality. |
| 3 | Support of Short Message Service (SMS) MT over SGs | 23.272, 8.2.4, 8.2.5 | Rel-8 | pc\_SMS\_SGs\_MT |  |
| **…** |  |  |  |  |  |
| 224 | Support one or more Multi-SIM features include NAS signalling connection release/Paging indication for voice services/Reject paging request/Paging restriction/Paging timing collision control and so on. | 24.301,5.5.1 | Rel-17 | pc\_EPC\_MUSIM |  |
| 225 | Support of Multi-SIM NAS signalling connection release | 24.301,5.5.1 | Rel-17 | pc\_EPC\_MUSIM\_NCR |  |
| 226 | Support of Multi-SIM Paging indication for voice services | 24.301,5.5.1 | Rel-17 | pc\_EPC\_MUSIM\_PIV |  |
| 227 | Support of Multi-SIM Reject paging request | 24.301,5.5.1 | Rel-17 | pc\_EPC\_MUSIM\_RPR |  |
| 228 | Support of Multi-SIM Paging restriction | 24.301,5.5.1 | Rel-17 | pc\_EPC\_MUSIM\_PR | A UE support Pging restriction shall support: - NAS signalling connection release or - Reject paging request or- both of them |
| 229 | Support of Multi-SIM Paging time collision control | 24.301,5.5.1 | Rel-17 | pc\_EPC\_MUSIM\_PTCC |  |
| 230 | Support of NTN access in NB-IoT | 36.306, 4.3.38.1 | Rel-17 | pc\_NB\_ntn\_Connectivity\_EPC | A UE supporting NTN access in NB-IoT shall set pc\_NB\_ntn\_only\_Connectivity\_EPC to FALSE |
| 231 | Support of Timing advance reporting in NTN cell in NB-IoT | 36.306, 4.3.38.2 | Rel-17 | pc\_NB\_ntn\_TA\_Report |  |
| 232 | Support of modified timer value for PUR operation required for NTN operation in NB-IoT | 36.306, 4.3.38.3 | Rel-17 | pc\_NB\_ntn\_PUR\_TimerEnhancement |  |
| 233 | Support of timing relationship enhancements using Differential Koffset in NB-IoT | 36.306, 4.3.38.4 | Rel-17 | pc\_NB\_ntn\_OffsetTimingEnh |  |
| 234 | Support of NTN features in GSO scenario in NB-IoT | 36.306, 4.3.38.5 | Rel-17 | pc\_NB\_ntn\_GSO\_ScenarioSupport |  |
| 235 | Support handover from E-UTRAN/EPC to EPC/ePDG | 23.402,8.2.3 | Rel-15 | pc\_HO\_from\_E\_UTRAN\_EPC\_to\_EPC\_ePDG |  |
| 236 | Supports reception of segmented DL RRC messages | 36.306, 4.3.8.14 | Rel-16 | pc\_ dl\_DedicatedMessageSegmentation |  |
| 237 | Support of NTN features in NGSO scenario in NB-IoT | 36.306, 4.3.38.5 | Rel-17 | pc\_NB\_ntn\_NGSO\_ScenarioSupport |  |
| 238 | Support of gap length between segments for PUSCH and PUCCH required by a UE supporting ce-ModeA-r13 or for NPUSCH required by a UE supporting ue-category-NB, for TA pre-compensation | 36.306, 4.3.38.6 | Rel-17 | pc\_ntn\_SegmentedPrecompensationGaps |  |
| KKK | Support of NTN only access in NB-IoT | 36.306, 4.3.38.1 | Rel-17 | pc\_NB\_ntn\_only\_Connectivity\_EPC | A UE supporting NTN only access in NB-IoT shall set pc\_NB\_ntn\_Connectivity\_EPC to FALSE |
| LLL | Support of NTN only access in CE Mode A | 36.306, 4.3.38.1 | Rel-17 | pc\_ntn\_only\_Connectivity\_EPC\_CE\_ModeA | A UE supporting NTN only access in CE Mode A shall set pc\_ntn\_Connectivity\_EPC\_CE\_ModeA to FALSE |
| XXX | Support of NTN access in CE Mode A | 36.306, 4.3.38.1 | Rel-17 | pc\_ntn\_Connectivity\_EPC\_CE\_ModeA | A UE supporting NTN access in CE Mode A shall set pc\_ntn\_only\_Connectivity\_EPC\_CE\_ModeA to FALSE |
| YYY | Support of Timing advance reporting in NTN cell in CE Mode A | 36.306, 4.3.38.2 | Rel-17 | pc\_ntn\_TA\_Report\_CE\_ModeA |  |
| ZZZ | Support of modified timer value for PUR operation required for NTN operation in CE Mode A | 36.306, 4.3.38.3 | Rel-17 | pc\_ntn\_PUR\_TimerEnhancement\_CE\_ModeA |  |
| AAA | Support of timing relationship enhancements using Differential Koffset in CE Mode A | 36.306, 4.3.38.4 | Rel-17 | pc\_ntn\_OffsetTimingEnh\_CE\_ModeA |  |
| BBB | Support of NTN features in GSO scenario in CE Mode A | 36.306, 4.3.38.5 | Rel-17 | pc\_ntn\_GSO\_ScenarioSupport\_CE\_ModeA |  |
| CCC | Support of NTN features in NGSO scenario in CE Mode A | 36.306, 4.3.38.5 | Rel-17 | pc\_ntn\_NGSO\_ScenarioSupport\_CE\_ModeA |  |

<End of modified section>