**3GPP TSG-SA5 Meeting #131e *S5-203092***

**e-meeting 25th May-3rd June 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | 28.552 | **CR** | 0240 | **rev** | - | **Current version:** | 16.5.0 |  |
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| *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 | **X** | Core Network |  |

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| ***Title:***  | Add Power utilization measurements |
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| ***Source to WG:*** |  ZTE, China Mobile |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | 5G\_SLICE\_ePA |  | ***Date:*** | 2020/5/13 |
|  |  |  |  |  |
| ***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:*** | RF Performance includes performance of Power Resource Utilization has been described in TS28.552 A.26 Monitoring of RF performance |
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| ***Summary of change:*** | Add Power utilization measurements. |
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| ***Consequences if not approved:*** | Power Resource Utilization is missing |
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| ***Clauses affected:*** | 5.1.1.X(new), 5.1.1.X.1(new), 5.1.1.X.2(new) |
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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:*** |  |

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| **1st modified section** |

5.1.1.x Transmit power utilization measurements

5.1.1.x.1 Maximum transmit power of NR cell

a) This measurement provides the maximum carrier transmit power in the measurement granularity interval.

b) SI.

c) This measurement is obtained by retaining the maximum value of the total carrier power transmitted in the cell within the measurement granularity period. The power includes all radio power transmitted, included common channels, traffic channels, control channels. The value is expressed in dBm.

d) Float in dBm.

e) CARR.MaxTxPwr

f) NRCellDU.

g) Valid for packet switched traffic.

h) 5GS.

5.1.1.x.2 Mean transmit power of NR cell

a) This measurement provides the mean carrier transmit power in the measurement granularity interval.

b) SI.

c) This measurement is obtained by retaining the mean value of the total carrier power transmitted in the cell within the measurement granularity period. The power includes all radio power transmitted, included common channels, traffic channels, control channels. The value is expressed in dBm.

d) Float in dBm.

e) CARR.MeanTxPwr

f) NRCellDU.

g) Valid for packet switched traffic.

h) 5GS.

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| **End of modifications** |