**3GPP TSG-SA5 Meeting #131e *S5-203091***

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

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | 28.552 | **CR** | 0239 | **rev** | 1 | **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 Number of UE related SSB beam index Measurement | | | | | | | | | |
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| ***Source to WG:*** | ZTE, China Mobile | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
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| ***Work item code:*** | 5G\_SLICE\_ePA | | | | |  | ***Date:*** | | | 2020/5/13 |
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| ***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 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)* | |
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| ***Reason for change:*** | | UE and traffic per SSB beam related measurements are helpful for analyzing users and services under different SSB beam coverage, and for network optimization and adjustment of SSB beam coverage or balancing of users and traffic under different SSB BEAM beams. Through the statistics, operator can learn about user distribution and service distribution which is important information for network planning. | | | | | | | | |
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| ***Summary of change:*** | | Add Number of UE related SSB beam index Measurement. | | | | | | | | |
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| ***Consequences if not approved:*** | | If this measurement does not exist, users belonging to each SSB cannot be monitored, which is not convenient for SSB beam network optimization and monitoring. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.1.X(new), 5.1.1.X.1(new), A.X(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:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st modified section** |

#### 5.1.1.X SSB beam related Measurement

5.1.1.x.1 Number of UE related the SSB beam Index (mean)

a) This measurement provides number of UE related the SSB beam index.

b) CC.

c) The measurement is obtained by sampling at a pre-defined interval, the number of UE related SSB beam index, and then taking the arithmetic mean. The UE related beam index which maintained by UE random access and handover and beam switch in case the beam switch function is enabled (see 3GPP TS 38.331[20]).

d) A single integer value.

e) L1M.SSBBeamRelatedUeNbr.

f) Beam

g) Valid for packet switched traffic

h) 5GS

i) One usage of this performance measurements is for performance assurance. This measurement is only applicable when the beam switch function is activated

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| **Next modified section** |

# A.x UE and traffic per SSB beam related measurements

UE and traffic per SSB beam related measurements is helpful for analyzing users and services under different SSB beam coverage, and for network optimization and adjustment of SSB beam coverage or balancing of users and traffic under different SSB BEAM beams. Through the statistics, operator can learn about user distribution and service distribution which is the important information for network planning.

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| **End of modifications** |