**3GPP TSG-RAN5 Meeting #92-e *R5-21xxxx***

**Electronic Meeting, 16th Aug– 27th Aug 2021**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.508-1** | **CR** | **????** | **rev** | **-** | **Current version:** | **17.1.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Correction to Table 4.6.3-142 and Table 4.6.3-79 for SFTD measurement reporting | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GS\_NR\_LTE-UEConTest | | | | |  | ***Date:*** | | | 2021-08-06 |
|  |  | | | |  | |  | | |  |
| ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | 1．To add missing fields for SFTD measurement reporting. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Missing fields for SFTD measurement reporting are added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Confirmant UE may fail the test. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.6.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 1>**

#### – *MeasResults*

Table 4.6.3-79: *MeasResults*

|  |  |  |  |
| --- | --- | --- | --- |
| Derivation Path: TS 38.331 [6], clause 6.3.2 | | | |
| Information Element | Value/remark | Comment | Condition |
| MeasResults ::= SEQUENCE { |  |  |  |
| measId | MeasId |  |  |
| measResultServingMOList | Not checked |  | SFTD\_NEIGHBOUR or SFTD\_PSCELL |
| measResultServingMOList SEQUENCE (SIZE (1.. maxNrofServingCells)) OF MeasResultServMO { | 1 entry |  |  |
| MeasResultServMO[1] SEQUENCE { |  | entry 1 |  |
| servCellId | ServCellIndex |  |  |
| measResultServingCell SEQUENCE { |  |  |  |
| physCellId | PhysCellId |  |  |
| measResult SEQUENCE { |  |  |  |
| cellResults SEQUENCE { |  |  |  |
| resultsSSB-Cell SEQUENCE { |  |  |  |
| rsrp | Not checked |  |  |
| rsrq | Not checked |  |  |
| sinr | Not checked |  |  |
| } |  |  |  |
| resultsCSI-RS-Cell | Not present |  |  |
| } |  |  |  |
| rsIndexResults | Not present |  |  |
| } |  |  |  |
| cgi-Info | Not present |  |  |
| } |  |  |  |
| measResultBestNeighCell | Not present |  |  |
| } |  |  |  |
| } |  |  |  |
| measResultNeighCells | Not present |  | A1, A2, SFTD\_NEIGHBOUR or SFTD\_PSCELL |
| Set according to specific message content |  | A3, A4, A5, A6 |
| measResultServFreqListEUTRA-SCG | Not present |  |  |
| measResultServFreqListNR-SCG | Not checked |  |  |
| measResultSFTD-EUTRA | Not present |  |  |
| measResultSFTD-NR | Not present |  |  |
| measResultSFTD-NR SEQUENCE { |  |  | SFTD\_PSCELL |
| sfn-OffsetResult | Not checked |  |  |
| frameBoundaryOffsetResult | Not checked |  |  |
| rsrp-Result | Not checked |  |  |
| } |  |  |  |
| measResultCellListSFTD-NR | Not present |  |  |
| measResultCellListSFTD-NR SEQUENCE (SIZE (1..maxCellSFTD)) OF MeasResultCellSFTD-NR { | 1 entry |  | SFTD\_NEIGHBOUR |
| MeasResultCellSFTD-NR[1] SEQUENCE { |  | entry 1 |  |
| physCellId | PhysCellId |  |  |
| sfn-OffsetResult | Not checked |  |  |
| frameBoundaryOffsetResult | Not checked |  |  |
| rsrp-Result | Not checked |  |  |
| } |  |  |  |
| } |  |  |  |
| measResultForRSSI-r16 | Not present |  |  |
| locationInfo-r16 | Not present |  |  |
| ul-PDCP-DelayValueResultList-r16 | Not present |  |  |
| measResultsSL-r16 | Not present |  |  |
| measResultCLI-r16 | Not present |  |  |
| } |  |  |  |

|  |  |
| --- | --- |
| Condition | Explanation |
| A1 | If event trigger Id in corresponding Measurement Configuration was Event A1 |
| A2 | If event trigger Id in corresponding Measurement Configuration was Event A2 |
| A3 | If event trigger Id in corresponding Measurement Configuration was Event A3 |
| A4 | If event trigger Id in corresponding Measurement Configuration was Event A4 |
| A5 | If event trigger Id in corresponding Measurement Configuration was Event A5 |
| A6 | If event trigger Id in corresponding Measurement Configuration was Event A6 |
| SFTD\_NEIGHBOUR | Measurement reporting triggered by SFTD measurement on NR neighbour |
| SFTD\_PSCELL | Measurement reporting triggered by SFTD measurement on NR PSCell |

**<End of modified section 1>**

**<Start of modified section 2>**

#### – *ReportConfigNR*

Table 4.6.3-142: *ReportConfigNR*(Thres1, Thres2)

|  |  |  |  |
| --- | --- | --- | --- |
| Derivation Path: TS 38.331 [6], clause 6.3.2 | | | |
| Information Element | Value/remark | Comment | Condition |
| ReportConfigNR ::= SEQUENCE { |  |  |  |
| reportType CHOICE { |  |  |  |
| periodical SEQUENCE { |  |  | PERIODICAL |
| rsType | ssb |  |  |
| reportInterval | ReportInterval |  |  |
| reportAmount | infinity |  |  |
| reportQuantityCell SEQUENCE { |  |  |  |
| rsrp | true |  |  |
| rsrq | true |  |  |
| sinr | false |  |  |
|  | true |  | pc\_ss\_SINR\_Meas |
| } |  |  |  |
| maxReportCells | 8 |  |  |
| reportQuantityRS-Indexes | Not present |  |  |
| maxNrofRS-IndexesToReport | Not present |  |  |
| includeBeamMeasurements | false |  |  |
| useWhiteCellList | false |  |  |
| measRSSI-ReportConfig-r16 | Not present |  |  |
| includeCommonLocationInfo-r16 | Not present |  |  |
| includeBT-Meas-r16 | Not present |  |  |
| includeBT-Meas-r16 CHOICE { |  |  | MDT\_BT |
| setup | BT-NameList |  |  |
| } |  |  |  |
| includeWLAN-Meas-r16 | Not present |  |  |
| includeWLAN-Meas-r16 CHOICE { |  |  | MDT\_WLAN |
| setup | WLAN-NameList |  |  |
| } |  |  |  |
| includeSensor-Meas-r16 | Not present |  |  |
| includeSensor-Meas-r16 CHOICE { |  |  | MDT\_SENSOR |
| setup | Sensor-NameList |  |  |
| } |  |  |  |
| ul-DelayValueConfig-r16 | Not present |  |  |
| ul-DelayValueConfig-r16 CHOICE { |  |  | MDT\_DELAY |
| setup | UL-DelayValueConfig |  |  |
| } |  |  |  |
| reportAddNeighMeas-r16 | Not present |  |  |
| } |  |  |  |
| eventTriggered SEQUENCE { |  |  |  |
| eventId CHOICE { |  |  |  |
| eventA1 SEQUENCE { |  |  | EVENT\_A1 |
| a1-ThresholdCHOICE { |  |  |  |
| rsrp | Thres1 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| reportOnLeave | false |  |  |
| hysteresis | Hysteresis |  |  |
| timeToTrigger | TimeToTrigger |  |  |
| } |  |  |  |
| eventA2 SEQUENCE { |  |  | EVENT\_A2 |
| a2-Threshold CHOICE { |  |  |  |
| rsrp | Thres1 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| reportOnLeave | false |  |  |
| hysteresis | Hysteresis |  |  |
| timeToTrigger | TimeToTrigger |  |  |
| } |  |  |  |
| eventA3 SEQUENCE { |  |  | EVENT\_A3 |
| a3-Offset CHOICE { |  |  |  |
| rsrp | Thres1 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| reportOnLeave | false |  |  |
| hysteresis | Hysteresis |  |  |
| timeToTrigger | TimeToTrigger |  |  |
| useWhiteCellList | false |  |  |
| } |  |  |  |
| eventA4 SEQUENCE { |  |  | EVENT\_A4 |
| a4-Threshold CHOICE { |  |  |  |
| rsrp | Thres1 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| reportOnLeave | false |  |  |
| hysteresis | Hysteresis |  |  |
| timeToTrigger | TimeToTrigger |  |  |
| useWhiteCellList | false |  |  |
| } |  |  |  |
| eventA5 SEQUENCE { |  |  | EVENT\_A5 |
| a5-Threshold1 CHOICE { |  |  |  |
| rsrp | Thres1 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| a5-Threshold2 CHOICE { |  |  |  |
| rsrp | Thres2 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| reportOnLeave | false |  |  |
| hysteresis | Hysteresis |  |  |
| timeToTrigger | TimeToTrigger |  |  |
| useWhiteCellList | false |  |  |
| } |  |  |  |
| eventA6 SEQUENCE { |  |  | EVENT\_A6 |
| a6-Offset CHOICE { |  |  |  |
| rsrp | Thres1 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| reportOnLeave | false |  |  |
| hysteresis | Hysteresis |  |  |
| timeToTrigger | TimeToTrigger |  |  |
| useWhiteCellList | false |  |  |
| } |  |  |  |
| } |  |  |  |
| rsType | ssb |  |  |
| reportInterval | ReportInterval |  |  |
| reportAmount | r2 |  |  |
| reportQuantityCell SEQUENCE { |  |  |  |
| rsrp | true |  |  |
| rsrq | true |  |  |
| sinr | false |  |  |
|  | true |  | pc\_ss\_SINR\_Meas |
| } |  |  |  |
| maxReportCells | 8 |  |  |
| reportQuantityRS-Indexes | Not present |  |  |
| maxNrofRS-IndexesToReport | Not present |  |  |
| includeBeamMeasurements | false |  |  |
| reportAddNeighMeas | Not present |  |  |
| measRSSI-ReportConfig-r16 | Not present |  |  |
| useT312-r16 | Not present |  |  |
| includeCommonLocationInfo-r16 | Not present |  | MDT |
| includeBT-Meas-r16 | Not present |  |  |
| includeBT-Meas-r16 CHOICE { |  |  | MDT\_BT |
| setup | BT-NameList |  |  |
| } |  |  |  |
| includeWLAN-Meas-r16 | Not present |  |  |
| includeWLAN-Meas-r16 CHOICE { |  |  | MDT\_WLAN |
| setup | WLAN-NameList |  |  |
| } |  |  |  |
| includeSensor-Meas-r16 | Not present |  |  |
| includeSensor-Meas-r16 CHOICE { |  |  | MDT\_SENSOR |
| setup | Sensor-NameList |  |  |
| } |  |  |  |
| } |  |  |  |
| reportCGI SEQUENCE { |  |  | CGI |
| cellForWhichToReportCGI | PhysCellId |  |  |
| } |  |  |  |
| reportSFTD SEQUENCE { |  |  | SFTD\_NEIGHBOUR or SFTD\_PSCELL |
| reportSFTD-Meas | false |  | SFTD\_NEIGHBOUR |
|  | true |  | SFTD\_PSCELL |
| reportRSRP | false |  |  |
| reportSFTD-NeighMeas | true |  | SFTD\_NEIGHBOUR |
|  | Not present |  | SFTD\_PSCELL |
| drx-SFTD-NeighMeas | Not present |  |  |
| cellsForWhichToReportSFTD | Not present |  |  |
| } |  |  |  |
| condTriggerConfig SEQUENCE { |  |  | CHO, CPC |
| condEventId CHOICE { |  |  |  |
| condEventA3 SEQUENCE { |  |  | CHO AND EVENT\_A3 |
| a3-Offset CHOICE { |  |  |  |
| rsrp | Thres1 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| hysteresis | Hysteresis |  |  |
| timeToTrigger | TimeToTrigger |  |  |
| } |  |  |  |
| condEventA5 SEQUENCE { |  |  | CHO AND EVENT\_A5 |
| a5-Threshold1 CHOICE { |  |  |  |
| rsrp | Thres1 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| a5-Threshold2 CHOICE { |  |  |  |
| rsrp | Thres2 | Thres is an entry value into a mapping table in TS 38.133 [13]. |  |
| } |  |  |  |
| hysteresis | Hysteresis |  |  |
| timeToTrigger | TimeToTrigger |  |  |
| } |  |  |  |
| } |  |  |  |
| rsType-r16 | ssb |  |  |
| } |  |  |  |
| } |  |  |  |
| } |  |  |  |

|  |  |
| --- | --- |
| Condition | Explanation |
| EVENT\_A1 | Configuration of Event A1 |
| EVENT\_A2 | Configuration of Event A2 |
| EVENT\_A3 | Configuration of Event A3 |
| EVENT\_A4 | Configuration of Event A4 |
| EVENT\_A5 | Configuration of Event A5 |
| EVENT\_A6 | Configuration of Event A6 |
| PERIODICAL | Configuration of periodical reporting |
| CGI | Configuration of CGI measurement |
| CHO | Configuration of conditional handover |
| CPC | Conditional PScell change |
| MDT | Configuration of MDT |
| MDT\_BT | Configuration of MDT including Bluetooth measurements |
| MDT\_WLAN | Configuration of MDT including WLAN measurements |
| MDT\_SENSOR | Configuration of MDT including Sensor measurements |
| MDT\_DELAY | Configuration of UL PDCP Packet Delay per DRB |
| SFTD\_NEIGHBOUR | Configurations of SFTD measurement on NR neighbour |
| SFTD\_PSCELL | Configurations of SFTD measurement on NR PSCell |

**<End of modified section 2>**