**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 |  |

|  |
| --- |
|  |
| ***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 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)* |
|  |  |
| ***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>**