

Guide for How to Map reported MR to the related Configured HO Event type

Optimization



Technology



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A3 Event
A4 Event
B1 Event



5G SA Handover delay due to aggressive A3/Hys threshold

L3 Messages

Direction	Message
gNodeB->MS	RRCReconfiguration
gNodeB->MS	CellGroupConfigNR
MS->gNodeB	RRCReconfigurationComplete
gNodeB->MS	MIB
gNodeB->MS	SIB1
gNodeB->MS	SystemInformation
gNodeB->MS	SystemInformation
gNodeB->MS	RRCReconfiguration
gNodeB->MS	CellGroupConfigNR
MS->gNodeB	RRCReconfigurationComplete
gNodeB->MS	RRCReconfiguration
gNodeB->MS	CellGroupConfigNR
MS->gNodeB	RRCReconfigurationComplete
gNodeB->MS	RRCReconfiguration
gNodeB->MS	CellGroupConfigNR
MS->gNodeB	RRCReconfigurationComplete
gNodeB->MS	RRCReconfiguration
MS->gNodeB	RRCReconfigurationComplete
MS->gNodeB	MeasurementReport
gNodeB->MS	RRCReconfiguration
gNodeB->MS	CellGroupConfigNR
MS->gNodeB	RRCReconfigurationComplete
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport
MS->gNodeB	MeasurementReport

MR

```

measId:0x1 (1)
  ▼ measResultServingMOList
    ▼ MeasResultServMO
      Serving Cell Meas
      servCellId:0x0 (0)
      ▼ measResultServingCell
        physCellId:0x3ee (1006)
        ▼ measResult
          ▼ cellResults
            ▼ resultsSSB-Cell
              rsrp:0x43 (67) -88dBm
              rsrq:0x41 (65)
            NBR Cell Meas
          ▼ measResultNeighCells
          ▼ measResultListNR
            ▼ MeasResultNR
              physCellId:0x90 (144)
              ▼ measResult
                ▼ cellResults
                  ▼ resultsSSB-Cell
                    rsrp:0x48 (72) -83dBm
                    rsrq:0x41 (65)
  
```

RRC Reconfiguration Message

```

  ▼ measIdToAddModList
    ▼ MeasIdToAddMod
      measId:0x1 (1)
      measObjectId:0x1 (1)
      reportConfigId:0x1 (1)
    ▼ MeasIdToAddMod
      measId:0x2 (2)
      measObjectId:0x1 (1)
      reportConfigId:0x2 (2)
    ▼ MeasIdToAddMod
      measId:0x3 (3)
      measObjectId:0x1 (1)
      reportConfigId:0x3 (3)
    ▼ MeasIdToAddMod
      measId:0x4 (4)
      measObjectId:0x1 (1)
      reportConfigId:0x4 (4)
  
```

```

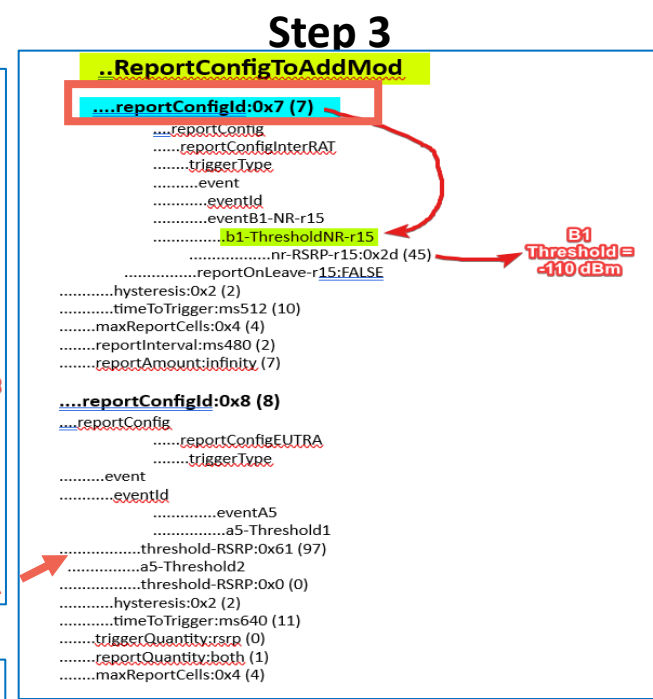
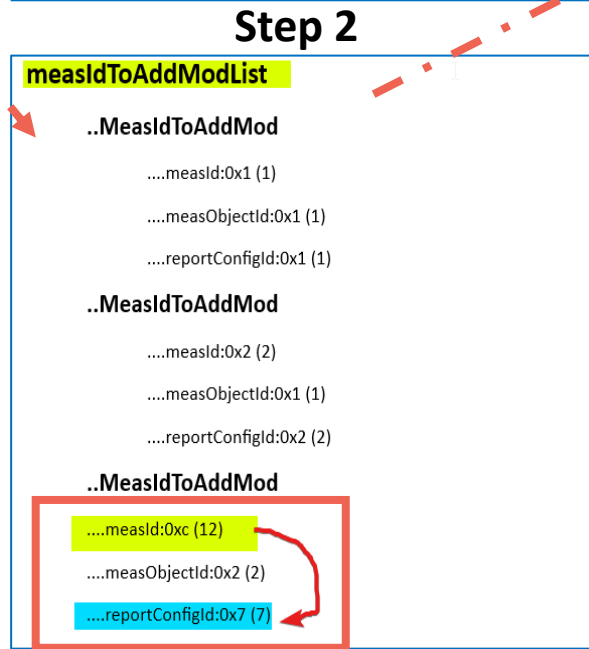
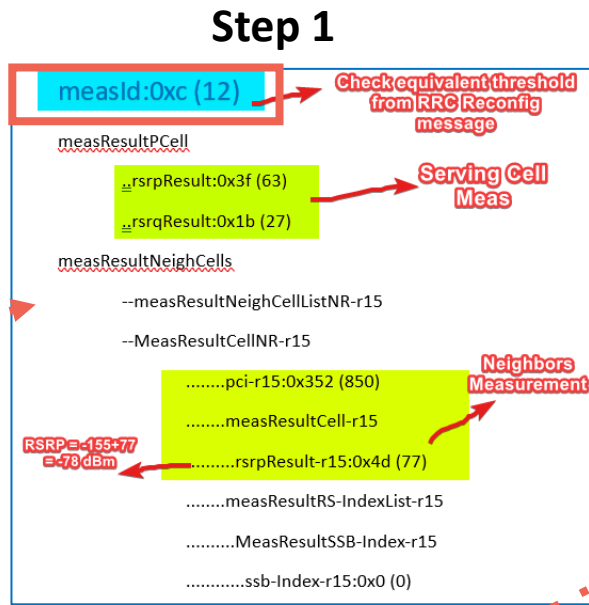
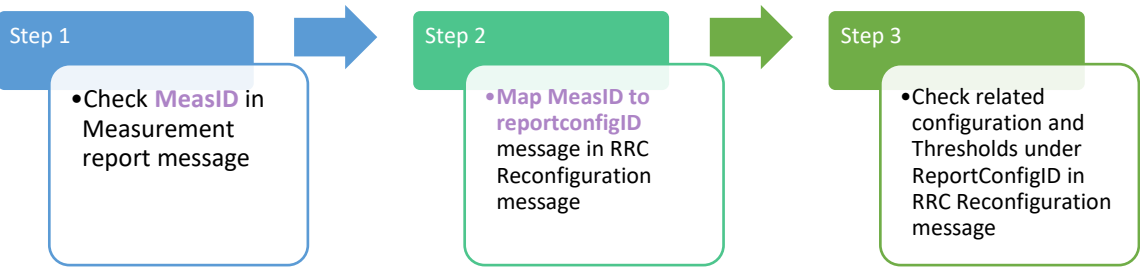
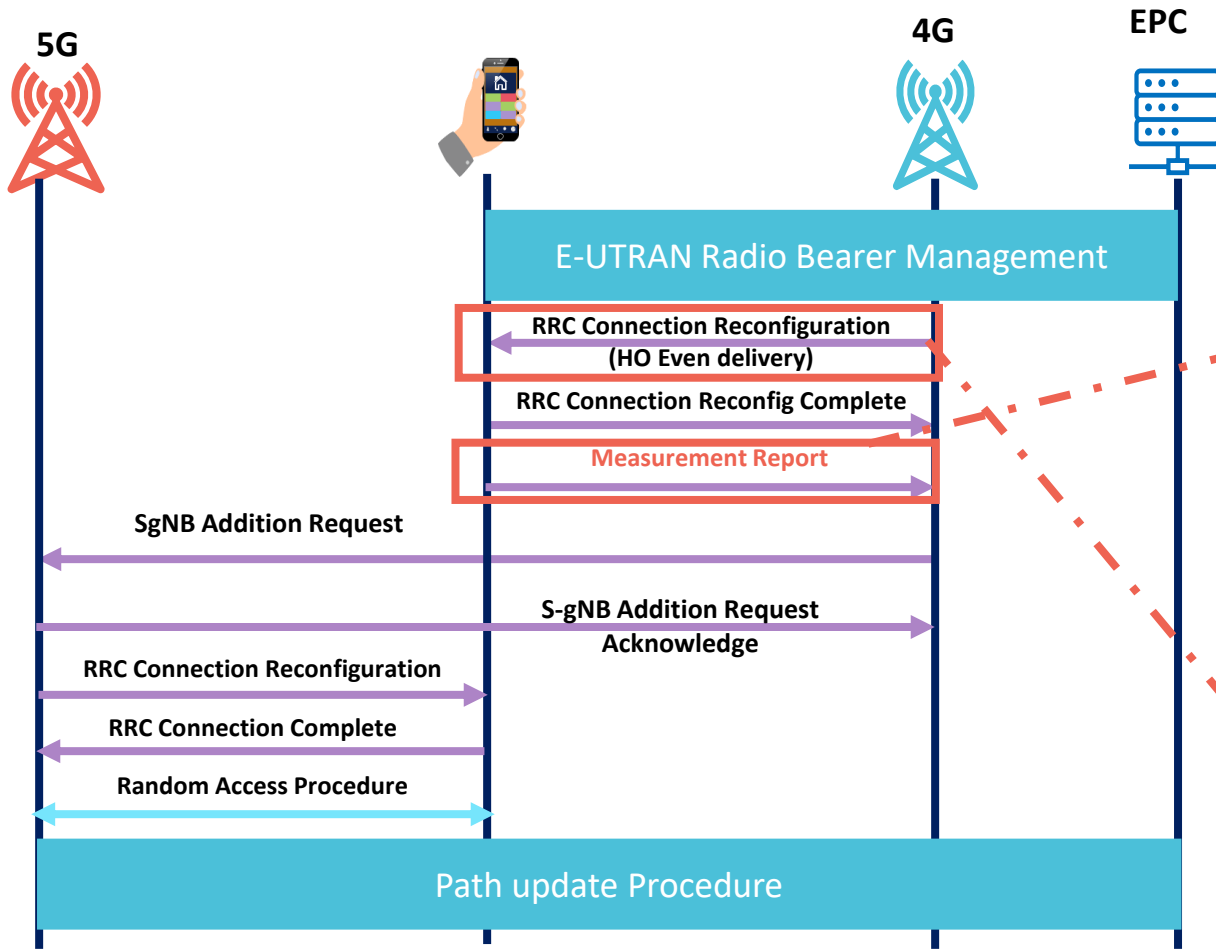
  ▼ reportConfigToAddModList
    ▼ ReportConfigToAddMod
      reportConfigId:0x1 (1)
      ▼ reportConfig
        ▼ reportConfigNR
          ▼ reportType
            ▼ eventTriggered
              ▼ eventId
                ▼ eventA3
                  ▼ a3-Offset
                    rsrp:0x6 (6)
                    reportOnLeave:FALSE
                    hysteresis:0x6 (6)
                    timeToTrigger:ms320 (8)
                    useWhiteCellList:FALSE
                    rsType:ssb (0)
                    reportInterval:ms240 (1)
                    reportAmount:infinity (7)
          ▼ reportQuantityCell
            rsrp:TRUE
            rsrq:TRUE
  
```

$M_n + O_{fn} + O_{cn} - H_{ys}$

>

$M_s + O_{fs} + O_{cs} + A3 \text{ Offset}$

MeasID Mapping to Configured Threshold (B1 Event- SgNB Addition)



MeasID Mapping to Configured Threshold(SgNB Addition)

