

Measurement Object Class	Measurement Name	Sub Counters	Distribution Support	Value Type	Description
NRCeIDU	DRB.AirItdelayDI	PLMN, QoS, SNSSAI		Real	Average delay DL air-interface Each measurement is a real representing the mean delay in 0.1 millisecond
NRCeIDU	DRB.AirItdelayDist.Bin	PLMN, QoS, SNSSAI	Y	Integer	Distribution of delay DL air-interface Each measurement is an integer representing the number of RLC SDU packets measured with the delay within the range of the bin
NRCeIDU	DRB.AirItdelayUI	PLMN, QoS, SNSSAI		Real	Average delay UL on over-the-air interface Each measurement is a real representing the mean delay in 0.1 millisecond
NRCeIDU	DRB.RlcDelayUI	PLMN, QoS, SNSSAI		Real	Average RLC packet delay in the UL Each measurement is a real representing the mean delay in the unit 0.1 milliseconds
NRCeIDU	RRU.PrbTotDI			Integer 0~100	DL Total PRB Usage A single integer value from 0 to 100
NRCeIDU	RRU.PrbTotUI			Integer 0~100	UL Total PRB Usage A single integer value from 0 to 100
NRCeIDU	RRU.PrbTotDIDist.BinX		Y	Integer	Distribution of DL Total PRB Usage A set of integers. Each representing the (integer) number of samples with a DL total PRB percentage usage in the range represented by that bin
NRCeIDU	RRU.PrbTotUIDist.BinX		Y	Integer	Distribution of UL total PRB usage A set of integers, each representing the (integer) number of samples with a UL PRB percentage usage in the range represented by that bin
NRCeIDU	RRU.PrbUsedDI RRU.PrbUsedDI.QoS RRU.PrbUsedDI.SNSSAI RRU.PrbUsedDI.PLMN			Integer	Mean DL PRB used for data traffic Each measurement is a single integer value
NRCeIDU	RRU.PrbAvailDI			Integer	DL total available PRB One measurement, (average number of DL PRBs) is a single integer value
NRCeIDU	RRU.PrbUsedUI RRU.PrbUsedUI.QoS RRU.PrbUsedUI.SNSSAI RRU.PrbUsedUI.PLMN			Integer	Mean UL PRB used for data traffic Each measurement (number of PRBs) is a single integer value
NRCeIDU	RRU.PrbAvailUI			Integer	UL total available PRB One measurement, (average number of UL PRBs) that is a single integer value
NRCeIDU	RRU.MaxPbUsedDI RRU.MaxPbUsedDI.QoS RRU.MaxPbUsedDI.SNSSAI			Integer	Peak DL PRB used for data traffic Each measurement is a single integer value
NRCeIDU	RRU.MaxPbUsedUI RRU.MaxPbUsedUI.QoS RRU.MaxPbUsedUI.SNSSAI			Integer	Peak UL PRB used for data traffic Each measurement (number of PRBs) is a single integer value
NRCeIDU	RRU.PrbTotDIMimo			Integer 0~100	PDSCH PRB Usage per cell for MIMO A single integer value from 0 to 100
NRCeIDU	RRU.PrbTotUIMimo			Integer 0~100	PUSCH PRB Usage per cell for MIMO A single integer value from 0 to 100
NRCeIDU	RRU.PrbTotSdmDI			Integer 0~100	SDM PDSCH PRB Usage A single integer value from 0 to 100
NRCeIDU	RRU.PrbTotSdmUI			Integer 0~100	SDM PUSCH PRB Usage A single integer value from 0 to 100
NRCeIDU	DRB.UEThpDI DRB.UEThpDI.QoS DRB.UEThpDI.SNSSAI DRB.UEThpDI.PLMN			Real	Average DL UE throughput in gNB Each measurement is a real value representing the throughput in kbit per second
NRCeIDU	DRB.UEThpDIDist.Bin DRB.UEThpDIDist.Bin.QoS DRB.UEThpDIDist.Bin.SNSSAI DRB.UEThpDIDist.Bin.PLMN		Y	Integer	Distribution of DL UE throughput in gNB A set of integers, each representing the (integer) number of samples with a DL UE throughput in the range represented by that bin
NRCeIDU	DRB.UEThpUI DRB.UEThpUI.QoS DRB.UEThpUI.SNSSAI DRB.UEThpUI.PLMN			Real	Average UL UE throughput in gNB Each measurement is a real value representing the throughput in kbit per second
NRCeIDU	DRB.UEThpUIDist.Bin DRB.UEThpUIDist.Bin.QoS DRB.UEThpUIDist.Bin.SNSSAI DRB.UEThpUIDist.Bin.PLMN		Y	Integer	Distribution of UL UE throughput in gNB A set of integers, each representing the (integer) number of samples with a UL UE throughput in the range represented by that bin
NRCeIDU	DRB.UEUnresVolDI DRB.UEUnresVolDI.QoS DRB.UEUnresVolDI.SNSSAI DRB.UEUnresVolDI.PLMN			Integer 0~100	Percentage of unrestricted DL UE data volume in gNB Each measurement is a single integer value from 0 to 100
NRCeIDU	DRB.UEUnresVolUI DRB.UEUnresVolUI.QoS DRB.UEUnresVolUI.SNSSAI DRB.UEUnresVolUI.PLMN			Integer 0~100	Percentage of unrestricted UL UE data volume in gNB Each measurement is a single integer value from 0 to 100
NRCeIDU	MM.Redirection.5gsToEpsFallback			Integer	number of EPS fallback redirection A single integer value
NRCeIDU	TB.TotNbrDIInitial TB.TotNbrDIInitial.Qpsk TB.TotNbrDIInitial.16Qam TB.TotNbrDIInitial.64Qam TB.TotNbrDIInitial.256Qam			Integer	Total number of DL initial TBs
NRCeIDU	TB.IntialErrNbrDI TB.IntialErrNbrDI.Qpsk TB.IntialErrNbrDI.16Qam TB.IntialErrNbrDI.64Qam TB.IntialErrNbrDI.256Qam			Integer	Initial error number of DL TBs
NRCeIDU	TB.TotNbrDLX			Integer	Total number of DL TBs Where X identified by DL MU-MIMO maximum layer
NRCeIDU	TB.ErrTotalNbrDL.X			Integer	Total error number of DL TBs Where X identified by DL MU-MIMO maximum layer
NRCeIDU	TB.ResidualErrNbrDI			Integer	Residual error number of DL TBs
NRCeIDU	TB.TotNbrULInit TB.TotNbrULInit.Qpsk TB.TotNbrULInit.16Qam TB.TotNbrULInit.64Qam TB.TotNbrULInit.256Qam			Integer	Total number of UL initial TBs
NRCeIDU	TB.ErrNbrULInitial TB.ErrNbrULInitial.Qpsk TB.ErrNbrULInitial.16Qam TB.ErrNbrULInitial.64Qam TB.ErrNbrULInitial.256Qam			Integer	Error number of UL initial TBs
NRCeIDU	TB.TotNbrULX			Integer	Total number of UL TBs Where X identified by UL MU-MIMO maximum layer
NRCeIDU	TB.ErrTotalNbrUL.X			Integer	Total error number of UL TBs Where X identified by UL MU-MIMO maximum layer
NRCeIDU	TB.ResidualErrNbrUI			Integer	Residual error number of UL TBs
NRCeIDU	CARR.WBCQIDist.BinX.BinY.BinZ		Y	Integer	Wideband CQI distribution where X represents the index of the CQI value (0 to 15), Y represents the index of rank value (1 to 8), Z represents the index of table value (1 to 3)
NRCeIDU	CARR.PDSCHMCSDist.BinX.BinY.BinZ		Y	Integer	MCS Distribution in PDSCH where X represents the index of rank value (1 to 8), Y represents the index of table value (1 to 3), and Z represents the index of the MCS value (0 to 31)
NRCeIDU	CARR.PUSCHMCSDist.BinX.BinY.BinZ		Y	Integer	MCS Distribution in PUSCH where X represents the index of rank value (1 to 8), Y represents the index of table value (1 to 2), and Z represents the index of the MCS value (0 to 31)
NRCeIDU	CARR.MUPDSCHMCSDist.BinX		Y	Integer	PDSCH MCS Distribution for MU-MIMO where X represents the index of the MCS value (0 to 31)
NRCeIDU	CARR.MUPUSCHMCSDist.BinX		Y	Integer	PUSCH MCS Distribution for MU-MIMO where X represents the index of the MCS value (0 to 31)
NRCeIDU	RACH.PreambleDetCell RACH.PreambleACell RACH.PreambleBCell			Integer	Received Random Access Preambles per cell

NRCelIDU	RACH.PreambleDed.Ssb RACH.PreambleA.Ssb RACH.PreambleB.Ssb			Integer	Received Random Access Preambles per SSB where Ssb represents the subcounter associated with SSB
NRCelIDU	RACH.PreambleDist.Bin		Y	Integer	Distribution of number of RACH preambles per cell where Bin is to identify the bins associated with the number of preambles sent
NRCelIDU	RACH.AccessDelayDist.Bin		Y	Integer	Distribution of RACH access delay where Bin is to identify the bins associated with the RACH access delay
NRCelIDU	DRB.MeanActiveUeDl	PLMN, QoS, SNSSAI		Integer	Mean number of Active UEs in the DL per cell
NRCelIDU	DRB.MaxActiveUeDl	PLMN, QoS, SNSSAI		Integer	Max number of Active UEs in the DL per cell
NRCelIDU	DRB.MeanActiveUeUl	PLMN, QoS, SNSSAI		Integer	Mean number of Active UEs in the UL per cell
NRCelIDU	DRB.MaxActiveUeUl DRB.MaxActiveUeUl.QOS DRB.MaxActiveUeUl.SNSSAI			Integer	Max number of Active UEs in the UL per cell
NRCelIDU	L1M.PHR1.BinX		Y	Integer	Type 1 power headroom distribution where X represents the range of PHR value (-32 ... +38 dB)
NRCelIDU	PAG.ReceivedNbr			Integer	Number of paging records received by the NRCelIDU
NRCelIDU	PAG.DiscardedNbr			Integer	Number of paging records discarded at the NRCelIDU
NRCelIDU	CARR.MaxTxPwr			Float	Maximum transmit power of NR cell Float in dBm
NRCelIDU	CARR.MeanTxPwr			Float	Mean transmit power of NR cell Float in dBm
NRCelIDU	CARR.MUPDSCHRB.BINX		Y	Integer	Scheduled PDSCH RBs per layer of MU-MIMO where X represents the MU-MIMO layer value (2 to n)
NRCelIDU	CARR.MUPUSCHRB.BINX		Y	Integer	Scheduled PUSCH RBs per layer of MU-MIMO where X represents the MU-MIMO layer value (2 to n)
NRCelIDU	RRU.MaxLayerDMimo			Real	PDSCH Time-domain average Maximum Scheduled Layer Number of cell for MIMO scenario
NRCelIDU	RRU.MaxLayerUMimo			Real	PUSCH Time-domain average Maximum Scheduled Layer Number of cell for MIMO scenario
NRCelIDU	CARR.AverageLayersDL			Real	Average value of scheduled MIMO layers per PRB on the DL
NRCelIDU	CARR.AverageLayersUL			Real	Average value of scheduled MIMO layers per PRB on the UL
NRCelIDU	L1M.ATADist.Bin		Y	Integer	Timing Advance distribution for NR Cell where Bin represents the range of absolute TA value (0 to 4095)
NRCelIDU	DRB.F1UPacketLossRateDl DRB.F1UPacketLossRateDl.QOS DRB.F1UPacketLossRateDl.SNSSAI			Integer	DL F1-U Packet Loss Rate
NRCelIDU	DRB.RlcPacketDropRateDl DRB.RlcPacketDropRateDl.QOS DRB.RlcPacketDropRateDl.SNSSAINRCellIDU			Integer	DL Packet Drop Rate in gNB-DU
NRCelIDU	DRB.RlcSduDelayDl	PLMN, QoS, SNSSAI		Real	Average delay DL in gNB-DU
NRCelIDU	DRB.RlcSduDelayDlDist.Bin	PLMN, QoS, SNSSAI	Y	Integer	Distribution of delay DL in gNB-DU
NRCelIDU	DRB.RlcSduLatencyDl DRB.RlcSduLatencyDl.QOS DRB.RlcSduLatencyDl.SNSSAI			Real	Average IP Latency DL in gNB-DU
NRCelIDU	DRB.RlcSduLatencyDlDist.bin.QOS DRB.RlcSduLatencyDlDist.bin.SNSSAI			Integer	Distribution of IP Latency DL in gNB-DU Each measurement is an integer representing the number of RLC SDU packets measured with the latency within the range of the bin Bin indicates a latency range which is vendor specific
NRCelIDU	UECNTX.RelReq.Cause			Integer	UE Context Release Request (gNB-DU initiated) where Cause identifies the release cause. The possible causes are defined in 38.473 [6]
Beam	MM.HoExclnterSSBSucc			Integer	Number of successful handover executions per beam pair A single integer value
Beam	MM.HoExclnterSSBFail.UeCtxRelCmd.cause MM.HoExclnterSSBFail.RrcReestabReq MM.HoExclnterSSBFail.HoExecSupTimer MM.HoExclnterSSBFail.RetrUeCtxRelReq			Integer	Number of failed handover executions per beam pair Each subcounter is an integer value
Beam	MR.IntraCellSSBSwitchReq			Integer	Number of requested Intra-NR cell SSB Beam switch executions
Beam	MR.IntraCellSuccSSBSwitch			Integer	Number of successful Intra-NR cell SSB Beam switch executions
Beam	L1M.SS-RSRP.Bin	Y		Integer	SS-RSRP distribution per SSB where Bin represents the range of reported SS-RSRP value (0 to 127 dBm)
Beam	HO.IntraSys.bToEarly.NCI HO.IntraSys.bToLate.NCI HO.IntraSys.bToWrongCell.NCI			Integer	Handover failures per beam-cell pair related to MRO for intra-system mobility
Beam	L1M.SSBBeamRelatedUeNbr			Integer	Number of UE related the SSB Beam Index (mean)
NRCelRelation	L1M.SS-RSRPNbr.SSBIndex.Bin	Y		Integer	SS-RSRP distribution per SSB of neighbor NR cell where SSBIndex identifies the SSB beam of the neighbor NR cell; and the Bin represents the range of reported SS-RSRP value (0 to 127)
EUTranCellRelation	L1M.RSRPEutraNbr.Bin	Y		Integer	RSRP distribution per neighbor E-UTRAN cell where the Bin represents the range of reported RSRP value to 97)
NRCelICU	RRC.ConnMean RRC.ConnMean.PLMN			Integer	Mean number of RRC Connections Each measurement is a single integer value
NRCelICU	RRC.ConnMax RRC.ConnMax.PLMN			Integer	Max number of RRC Connections Each measurement is a single integer value
NRCelICU	RRC.InactiveConnMean RRC.InactiveConnMean.PLMN			Integer	Mean number of stored inactive RRC Connections Each measurement is a real representing the mean number
NRCelICU	RRC.InactiveConnMax			Integer	Max number of stored inactive RRC Connections
NRCelICU	SM.PDUSessionSetupReq.SNSSAI			Integer	Number of PDU Sessions requested to setup Each subcounter is an integer value
NRCelICU	SM.PDUSessionSetupSucc.SNSSAI			Integer	Number of PDU Sessions successfully setup Each subcounter is an integer value
NRCelICU	SM.PDUSessionSetupFail.Cause			Integer	Number of PDU Sessions failed to setup Each subcounter is an integer value Cause identifies the cause of the PDU Sessions Resource Setup failure, per the "PDU Session Resource Setup Unsuccessful Transfer" IE. Encoding of the Cause is defined in clause 9.3.1.2 of TS 38.413
NRCelICU	SM.MeanPDUSessionSetupReq.SNSSAI			Integer	Mean number of PDU sessions being allocated Each subcounter is an integer value
NRCelICU	SM.MaxPDUSessionSetupReq.SNSSAI			Integer	Peak number of PDU sessions being allocated Each subcounter is an integer value
NRCelRelation	MM.HoPreplnterReq			Integer	Number of requested legacy handover preparations A single integer value
NRCelRelation	MM.HoPreplnterSucc			Integer	Number of successful legacy handover preparations A single integer value
NRCelRelation	MM.HoPreplnterFail.cause			Integer	Number of failed legacy handover preparations Each subcounter is an integer value
NRCelRelation	MM.HoResAlloInterReq			Integer	Number of requested legacy handover resource allocations A single integer value
NRCelRelation	MM.HoResAlloInterSucc			Integer	Number of successful legacy handover resource allocations A single integer value
NRCelRelation	MM.HoResAlloInterFail.cause			Integer	Number of failed legacy handover resource allocations Each subcounter is an integer value
NRCelRelation	MM.HoExclnterReq			Integer	Number of requested legacy handover executions A single integer value
NRCelRelation	MM.HoExclnterSucc			Integer	Number of successful legacy handover executions A single integer value
NRCelRelation	MM.HoExclnterFail.UeCtxRelCmd.cause MM.HoExclnterFail.RrcReestabReq MM.HoExclnterFail.HoExecSupTimer MM.HoExclnterFail.RetrUeCtxRelReq			Integer	Number of failed legacy handover executions Each subcounter is an integer value The failure causes for UE CONTEXT RELEASE COMMAND are listed in [11] 38.413 clause 9.3.1.2
NRCelICU	MM.HoExclnterReq.TimeMean.SNSSAI			Integer	Mean Time of requested legacy handover executions Each measurement is an integer value, in milliseconds

NRCelICU	MM.HoExclnterReq.TimeMax.SVSSAI			Integer	Max Time of requested legacy handover executions Each measurement is an integer value, in milliseconds
NRCelICU NRCelRelation	MM.HoExclntaReq			Integer	Intra-gNB handovers - Number of requested legacy handover executions A single integer value
NRCelICU NRCelRelation	MM.HoExclntaSucc			Integer	Intra-gNB handovers - Number of successful legacy handover executions A single integer value
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoOut5gsToEpsPrepReq			Integer	Number of requested preparations for handovers from 5GS to EPS A single integer value
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoOut5gsToEpsPrepSucc			Integer	Number of successful preparations for handovers from 5GS to EPS A single integer value
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoOut5gsToEpsPrepFail.cause			Integer	Number of failed preparations for handovers from 5GS to EPS Each subcounter is an integer value Where cause identifies the failure cause of the handover preparations, 38.413
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoInclEpsTo5gsResAlloReq			Integer	Number of requested resource allocations for handovers from EPS to 5GS A single integer value
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoInclEpsTo5gsResAlloSucc			Integer	Number of successful resource allocations for handovers from EPS to 5GS A single integer value
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoInclEpsTo5gsResAlloFail.cause			Integer	Number of failed resource allocations for handovers from EPS to 5GS Each subcounter is an integer value Where cause identifies the failure cause of the handover resource allocations Transmission of HANDOVER FAILURE message (see TS 38.413 [11]) by the gNB-CU to the AMF
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoOutExe5gsToEpsReq			Integer	Number of requested executions for handovers from 5GS to EPS A single integer value
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoOutExe5gsToEpsSucc			Integer	Number of successful executions for handovers from 5GS to EPS A single integer value
EutranRelation (contained by NRCelICU) NRCelICU	MM.HoOutExe5gsToEpsFail.cause			Integer	Number of failed executions for handovers from 5GS to EPS Each subcounter is an integer value Where cause identifies the failure cause in the UE CONTEXT RELEASE COMMAND message
NRCelICU	MM.HoOut5gsToEpsFallbackPrepReq			Integer	Number of requested preparations for EPS fallback handovers A single integer value
NRCelICU	MM.HoOut5gsToEpsFallbackPrepSucc			Integer	Number of successful preparations for EPS fallback handovers A single integer value
NRCelICU	MM.HoOut5gsToEpsFallbackPrepFail.cause			Integer	Number of failed preparations for EPS fallback handovers Each subcounter is an integer value Where cause identifies the failure cause of the handover preparations, 38.413
NRCelICU	MM.HoOutExe5gsToEpsFallbackSucc			Integer	Number of successful executions for EPS fallback handovers A single integer value
NRCelICU	MM.HoOutExe5gsToEpsFallbackFail.cause			Integer	Number of failed executions for EPS fallback handovers Each subcounter is an integer value Where cause identifies the failure cause in the UE CONTEXT RELEASE COMMAND message, 38.413
NRCelICU	MM.Ho5gsToEpsFallbackTimeMean			Integer	Mean Time of EPS fallback handover A single integer value (in milliseconds)
NRCelICU	MM.HoExclHo5gsToEpsFallbackTimeMean			Integer	Mean Time of EPS fallback handover executions Each measurement is an integer value (in milliseconds)
NRCelICU	MM.HoExclntaFreqReq			Integer	Number of requested intra-frequency handover executions A single integer value
NRCelICU	MM.HoExclntaFreqSucc			Integer	Number of successful intra-frequency handover executions A single integer value
NRCelICU	MM.HoExclnterFreqReq			Integer	Number of requested inter-frequency handover executions A single integer value
NRCelICU	MM.HoExclnterFreqSucc			Integer	Number of successful inter-frequency handover executions A single integer value
NRCelICU NRCelRelation	MM.ChoPrepInterReq			Integer	Number of requested conditional handover preparations
NRCelICU NRCelRelation	MM.ChoPrepInterSucc			Integer	Number of successful conditional handover preparations
NRCelICU NRCelRelation	MM.ChoPrepInterFail.cause			Integer	Number of failed conditional handover preparations Where cause identifies the failure cause of the conditional handover preparations On receipt of HANDOVER PREPARATION FAILURE message (see TS 38.423 [13] clause 8.2.1.3)
NRCelICU	MM.ChoResAllInterReq			Integer	Number of requested conditional handover resource allocations
NRCelICU	MM.ChoResAllInterSucc			Integer	Number of successful conditional handover resource allocations
NRCelICU	MM.ChoResAllInterFail.cause			Integer	Number of failed conditional handover resource allocations Where cause identifies the failure cause of the conditional handover resource allocations On transmission of HANDOVER PREPARATION FAILURE message (see TS 38.423 [13] clause 8.2.1.3)
NRCelICU NRCelRelation	MM.ConfigInterReqCho			Integer	Number of configured conditional handover candidates
NRCelICU	MM.ConfigInterReqChoUes			Integer	Number of UEs configured with conditional handover
NRCelICU NRCelRelation	MM.ChoExclnterSucc			Integer	Number of successful conditional handover executions
NRCelICU	MM.ChoExclnterReq.TimeMean.SVSSAI			Integer	Mean Time of requested conditional handover executions Each measurement is an integer value (in milliseconds)
NRCelICU	MM.ChoExclnterReq.TimeMax.SVSSAI			Integer	Max Time of requested conditional handover executions Each measurement is an integer value (in milliseconds)
NRCelICU	MM.ChoPrepInterReqUes			Integer	Number of UEs for which conditional handover preparations are requested
NRCelICU	MM.ChoPrepInterSuccUes			Integer	Number of UEs for which conditional handover preparations were successful
NRCelICU	MM.ChoPrepInterFailUes.cause			Integer	Number of UEs for which conditional handover preparations failed Where cause identifies the failure cause of the conditional handover preparations On receipt of HANDOVER PREPARATION FAILURE message (see TS 38.423 [13] clause 8.2.1.3)
NRCelICU NRCelRelation	MM.ConfigIntraReqCho			Integer	Intra-gNB conditional handovers - Number of configured conditional handover candidates
NRCelICU	MM.ConfigIntraReqChoUes			Integer	Intra-gNB conditional handovers - Number of UEs configured with conditional handover
NRCelICU NRCelRelation	MM.ChoExclntaSucc			Integer	Intra-gNB conditional handovers - Number of successful handover executions
NRCelICU NRCelRelation	MM.DapsHoPrepInterReq			Integer	Number of requested DAPS handover preparations
NRCelICU NRCelRelation	MM.DapsHoPrepInterSucc			Integer	Number of successful DAPS handover preparations
NRCelICU NRCelRelation	MM.DapsHoPrepInterFail.cause			Integer	Number of failed DAPS handover preparations Where cause identifies the failure cause of the handover preparations On receipt of HANDOVER PREPARATION FAILURE message (see TS 38.413 [11]) by the NR cell CU from the AMF, or receipt of DAPS HO not accepted in DAPS Response Indicator of HANDOVER REQUEST ACKNOWLEDGE message (see TS 38.423 [13]), or receipt of HANDOVER PREPARATION FAILURE message (see TS 38.423 [13]) by the source NR cell CU from the target NR cell CU
NRCelICU	MM.DapsHoResAllInterReq			Integer	Number of requested DAPS handover resource allocations

NRCelCU	MM.DapsHoResAllInterSucc			Integer	Number of successful DAPS handover resource allocations
NRCelCU	MM.DapsHoResAllInterFail.cause			Integer	Number of failed DAPS handover resource allocations Where cause identifies the failure cause of the handover resource allocations On transmission of HANDOVER FAILURE message (see TS 38.413 [11]) by the NR cell CU to the AMF, or transmission of HANDOVER PREPARATION FAILURE message (see TS 38.423 [13]) by the target NR cell CU to the source NR cell CU, where the message denotes a DAPS handover, for informing that the preparation of resources has failed
NRCelCU NRCelRelation	MM.DapsHoExclnterReq			Integer	Number of requested DAPS handover executions
NRCelCU NRCelRelation	MM.DapsHoExclnterSucc			Integer	Number of successful DAPS handover executions
NRCelCU NRCelRelation	MM.DapsHoExclnterFail.UcCtxRelCmd.cause MM.DapsHoExclnterFail.RevRestabReq MM.DapsHoExclnterFail.HoExecUpTimer MM.DapsHoExclnterFail.RetUcCtxRelReq MM.DapsHoExclnterFail.FailInfo			Integer	Number of failed DAPS handover executions Where cause identifies the failure cause of the UE CONTEXT RELEASE COMMAND message
NRCelCU NRCelRelation	MM.DapsHoExclnterReq			Integer	Intra-gNB DAPS handovers - Number of requested handovers
NRCelCU NRCelRelation	MM.DapsHoExclnterSucc			Integer	Intra-gNB DAPS handovers - Number of successful DAPS handovers
NRCelCU	DRB.EstabAtt.5QI DRB.EstabAtt.SNSSAI			Integer	Number of DRBs attempted to setup
NRCelCU	DRB.EstabSucc.5QI DRB.EstabSucc.SNSSAI			Integer	Number of DRBs successfully setup
NRCelCU	DRB.RelActNbr.5QI DRB.RelActNbr.SNSSAI			Integer	Number of released active DRBs
NRCelCU	DRB.SessionTime.5QI DRB.SessionTime.SNSSAI			Integer	In-session activity time for DRB
NRCelCU	DRB.InitialEstabAtt.5QI DRB.InitialEstabAtt.SNSSAI			Integer	Number of Initial DRBs attempted to setup
NRCelCU	DRB.InitialEstabSucc.5QI DRB.InitialEstabSucc.SNSSAI			Integer	Number of Initial DRBs successfully setup
NRCelCU	DRB.ResumeAtt.5QI DRB.ResumeAtt.SNSSAI			Integer	Number of DRBs attempted to be resumed
NRCelCU	DRB.ResumeSucc.5QI DRB.ResumeSucc.SNSSAI			Integer	Number of DRBs successfully resumed
NRCelCU	DRB.MeanEstabSucc.5QI DRB.MeanEstabSucc.SNSSAI			Integer	Mean number of DRBs being allocated
NRCelCU	DRB.MaxEstabSucc.5QI DRB.MaxEstabSucc.SNSSAI			Integer	Peak number of DRBs being allocated
NRCelCU	DRB.GTUPathFailure.5QI DRB.GTUPathFailure.SNSSAI			Integer	Mean number of DRBs undergoing from User Plane Path Failures
NRCelCU	QF.RelActNbr.QoS			Integer	Number of released active QoS flows
NRCelCU	QF.ReleaseAttNbr.5QI QF.ReleaseAttNbr.SNSSAI			Integer	Number of QoS flows attempted to release
NRCelCU	QF.SessionTimeQoS.QoS			Integer	In-session activity time for QoS flow
NRCelCU	QF.SessionTimeUE			Integer	In-session activity time for UE
NRCelCU	QF.EstabAttNbr.5QI QF.EstabAttNbr.SNSSAI			Integer	Number of QoS flow attempted to setup
NRCelCU	QF.EstabSuccNbr.5QI QF.EstabSuccNbr.SNSSAI			Integer	Number of QoS flow successfully established
NRCelCU	QF.EstabFailNbr.Cause			Integer	Number of QoS flow failed to setup
NRCelCU	QF.InitialEstabAttNbr.5QI QF.InitialEstabAttNbr.SNSSAI			Integer	Number of Initial QoS flow attempted to setup
NRCelCU	QF.InitialEstabSuccNbr.5QI QF.InitialEstabSuccNbr.SNSSAI			Integer	Number of Initial QoS flow successfully established
NRCelCU	QF.InitialEstabFailNbr.Cause			Integer	Number of Initial QoS flow failed to setup where Cause identifies the cause resulting in the QoS flow setup failure On transmission by the NG-RAN of an INITIAL CONTEXT SETUP RESPONSE message, each QoS flow failed to establish is added to the relevant measurement per cause, the possible causes are included in TS 38.413 [18]
NRCelCU	QF.ModNbrAtt.5QI QF.ModNbrAtt.SNSSAI			Integer	Number of QoS flows attempted to modify
NRCelCU	QF.ModNbrSucc.5QI QF.ModNbrSucc.SNSSAI			Integer	Number of QoS flows successfully modified
NRCelCU	QF.ModNbrFail.cause			Integer	Number of QoS flows failed to modify where cause identifies the cause (see TS 38.413 [11])
NRCelCU	RRC.ConnEstabAtt.Cause			Integer	Attempted RRC connection establishments where Cause identifies the establishment cause The possible establishmentCause are included in TS 38.331 [20] (clause 6.2.2)
NRCelCU	RRC.ConnEstabSucc.Cause			Integer	Successful RRC connection establishments Cause where Cause identifies the establishment cause The possible causes are included in TS 38.331 [20] (clause 6.2.2)
NRCelCU	RRC.ConnEstabFailCause.NetworkReject RRC.ConnEstabFailCause.NoReply RRC.ConnEstabFailCause.Other			Integer	Failed RRC connection establishments
NRCelCU	UECNTX.ConnEstabAtt.Cause			Integer	Attempted UE-associated logical NG-connection establishment from gNB to AMF The possible causes are included in TS 38.331 [20] (clause 6.2.2)
NRCelCU	UECNTX.ConnEstabSucc.Cause			Integer	Successful UE-associated logical NG-connection establishment from gNB to AMF The possible causes are included in TS 38.331 [20] (clause 6.2.2)
NRCelCU	RRC.ReEstabAtt			Integer	Number of RRC connection re-establishment attempts
NRCelCU	RRC.ReEstabSuccWithUeContext			Integer	Successful RRC connection re-establishment with UE context
NRCelCU	RRC.ReEstabSuccWithoutUeContext			Integer	Successful RRC connection re-establishment without UE context
NRCelCU	RRC.ReEstabFallbackToSetupAtt			Integer	Number of RRC connection re-establishment attempts followed by RRC Setup
NRCelCU	RRC.ResumeAtt.cause			Integer	Number of RRC connection resuming attempts Where cause indicates the resume cause defined in clause 6.2.2 of TS 38.331 [20]
NRCelCU	RRC.ResumeSucc.cause			Integer	Successful RRC connection resuming Where cause indicates the resume cause defined in clause 6.2.2 of TS 38.331 [20]
NRCelCU	RRC.ResumeSuccByFallback.cause			Integer	Successful RRC connection resuming with fallback Where cause indicates the resume cause defined in clause 6.2.2 of TS 38.331 [20]
NRCelCU	RRC.ResumeFollowedByNetworkRelease			Integer	RRC connection resuming followed by network release
NRCelCU	RRC.ResumeFollowedBySuspension			Integer	RRC connection resuming followed by network suspension
NRCelCU	RRC.ResumeFallbackToSetupAtt.cause			Integer	Number of RRC connection resuming attempts followed by RRC Setup Where cause indicates the RRC resume cause defined in clause 6.2.2 of TS 38.331 [20]
NRCelCU	SQL1QoSFlow.Rel.Average.NormCallDuration			Integer	Average Normally Released Call (SQL 1 QoS Flow) Duration Each measurement is an integer value (in milliseconds)
NRCelCU	SQL1QoSFlow.Rel.Average.AbnormCallDuration			Integer	Average Abnormally Released Call (SQL 1 QoS Flow) Duration Each measurement is an integer value (in milliseconds)
NRCelCU	SQL1QoSFlow.Rel.NormCallDurationBinX	Y		Integer	Distribution of Normally Released Call (SQL 1 QoS Flow) Duration where X denotes the X-th bin from total number of N configured bins
NRCelCU	SQL1QoSFlow.Rel.AbnormCallDurationBinX	Y		Integer	Distribution of Abnormally Released Call (SQL 1 QoS Flow) Duration where X denotes the X-th bin from total number of N configured bins
NRCelCU NRCelRelation	HO.IntraSys.TooEarly HO.IntraSys.TooLate HO.IntraSys.ToWrongCell			Integer	Handover failures related to MRO for intra-system mobility
NRCelCU EutranRelation	HO.InterSys.TooEarly HO.InterSys.TooLate			Integer	Handover failures related to MRO for inter-system mobility
NRCelCU EutranRelation	HO.InterSys.Unnecessary			Integer	Unnecessary handovers for inter-system mobility

NRCelCU EutranRelation	HO.InterSys.PingPong			Integer	Handover ping-pong for inter-system mobility
NRCelCU	MR.NRSsSSRSRQ.BinX		Y	Integer	RSRQ measurement where X represents the range of Measured quantity SS-RSRQ value (-43 to 20 dB)
NRCelCU	MR.NRSsSSSINR.BinX		Y	Integer	SINR measurement where X represents the range of Measured quantity SS-SINR value (-23 to 40 dB)
NRCelCU	DRB.PdepSduVolumeDL	PLMN, QoS, SNSSAI		Integer	DL Cell PDCP SDU Data Volume Each measurement is an integer value representing the number of bits measured in Mbits (1Mbits=1000*1000 bits)
NRCelCU	DRB.PdepSduVolumeX2DL	PLMN, QoS, SNSSAI		Integer	DL Cell PDCP SDU Data Volume on X2 Interface
NRCelCU	DRB.PdepSduVolumeXnDL	PLMN, QoS, SNSSAI		Integer	DL Cell PDCP SDU Data Volume on Xn Interface
NRCelCU	DRB.PdepSduVolumeUL	PLMN, QoS, SNSSAI		Integer	UL Cell PDCP SDU Data Volume
NRCelCU	DRB.PdepSduVolumeX2UL	PLMN, QoS, SNSSAI		Integer	UL Cell PDCP SDU Data Volume on X2 Interface
NRCelCU	DRB.PdepSduVolumeXnUL	PLMN, QoS, SNSSAI		Integer	UL Cell PDCP SDU Data Volume on Xn Interface
NRCelCU	DRB.PacketSuccessRateUlgNBuU DRB.PacketSuccessRateUlgNBuU.QOS DRB.PacketSuccessRateUlgNBuU.SNSSAI			Integer	UL PDCP SDU Success Rate
GNBCUUPFunction NRCelCU	DRB.PacketLossRateUJ DRB.PacketLossRateUJ.QOS DRB.PacketLossRateUJ.SNSSAI			Integer	UL PDCP SDU Loss Rate Each measurement is an integer value representing the loss rate multiplied by 1E6
GNBCUUPFunction NRCelCU	DRB.PdepPacketDropRateDI DRB.PdepPacketDropRateDI.QOS DRB.PdepPacketDropRateDI.SNSSAI			Integer	DL PDCP SDU Drop rate in gNB-CU-UP
NRCelCU Beam	UECNTX.RelCmd.Cause			Integer	Number of UE Context Release Requests (gNB-CU initiated) Transmission of an UE CONTEXT RELEASE COMMAND message initiated by gNB-CU The possible causes are defined in 38.473 [6]
GNBCUUPFunction NRCelCU	QosFlow.PdepPduVolumeDL	PLMN, QoS, SNSSAI		Integer	DL PDCP PDU Data Volume Each measurement is an integer value representing the number of bits measured in Mbits (1Mbits=1000*1000 bits)
GNBCUUPFunction NRCelCU	QosFlow.PdepPduVolumeUl	PLMN, QoS, SNSSAI		Integer	UL PDCP PDU Data Volume Each measurement is an integer value representing the number of bits measured in Mbits
GNBCUUPFunction NRCelCU	QosFlow.PdepSduVolumeDI	PLMN, QoS, SNSSAI		Integer	DL PDCP SDU Data Volume Each measurement is an integer value representing the number of bits measured in Mbits
GNBCUUPFunction NRCelCU	QosFlow.PdepSduVolumeUL	PLMN, QoS, SNSSAI		Integer	UL PDCP SDU Data Volume Each measurement is an integer value representing the number of bits measured in Mbits
NRCelCU	MM.HoPrepIntraReq			Integer	Number of requested legacy handover preparations
NRCelCU	MM.HoPrepIntraSucc			Integer	Number of successful legacy handover preparations
NRCelCU	MM.ChoPrepIntraReq			Integer	Number of requested conditional handover preparations
NRCelCU	MM.ChoPrepIntraSucc			Integer	Number of successful conditional handover preparations
NRCelCU	MM.DapsHoPrepIntraReq			Integer	Number of requested DAPS handover preparations
NRCelCU	MM.DapsHoPrepIntraSucc			Integer	Number of successful DAPS handover preparations
NRCelCU	MM.ChoPrepIntraReqUes			Integer	Number of UEs for which conditional handover preparations are requested
NRCelCU	MM.ChoPrepIntraSuccUes			Integer	Number of UEs for which conditional handover preparations are successful
NRCelCU (for non-split and 2-split scenario) GNBCUUPFunction (for 3-split scenario)	DRB.DelayDlNgranUeDist.Bin	PLMN, 5QI   QCI, SNSSAI	Y	Integer	Distribution of DL delay between NG-RAN and UE Each measurement is an integer representing the number of GTP PDUs measured with the delay within the range of the bin
NRCelCU (for non-split and 2-split scenario) GNBCUUPFunction (for 3-split scenario)	DRB.DelayUlNgranUeDist.Bin	PLMN, 5QI   QCI, SNSSAI	Y	Integer	Distribution of UL delay between NG-RAN and UE Each measurement is an integer representing the number of GTP PDUs measured with the delay within the range of the bin
GNBCUUPFunction	DRB.PdepReordDelayUl	PLMN, 5QI   QCI, SNSSAI		Real	Average PDCP re-ordering delay in the UL Each measurement is a real representing the mean delay in the unit 0.1 milliseconds
EP_NgU (contained by GNBCUUPFunction)	GTP.InDataPktPacketLossN3gNB GTP.InDataPktPacketLossN3gNB.QoS GTP.InDataPktPacketLossN3gNB.SNSSAI			Integer	Incoming GTP Data Packet Loss in gNB over N3
GNBCUUPFunction	DRB.FIUPacketLossRateUl DRB.FIUPacketLossRateUl.QOS DRB.FIUPacketLossRateUl.SNSSAI			Integer	UL F1-U Packet Loss Rate
GNBCUUPFunction	DRB.PdepSduDelayDI	PLMN, 5QI   QCI, SNSSAI		Real	Average delay DL in CU-UP
GNBCUUPFunction	DRB.PdepFIDelayDI	PLMN, 5QI   QCI, SNSSAI		Real	Average delay DL on F1-U
GNBCUUPFunction	DRB.PdepSduDelayDIDist.Bin	PLMN, 5QI   QCI, SNSSAI	Y	Integer	Distribution of delay DL in CU-UP where Bin indicates a delay range which is vendor specific
GNBCUUPFunction	DRB.GtpFIDelayDIDist.Bin	PLMN, 5QI   QCI, SNSSAI	Y	Integer	Distribution of delay DL on F1-U where Bin indicates a delay range which is vendor specific
EP_F1U (F1-U interface), EP_XnU (Xn-U interface), EP_X2U (X2-U interface)	DRB.FIUpdepSduVolumeDL	PLMN, 5QI   QCI, SNSSAI		Integer	DL PDCP SDU Data Volume per interface Where filter is a combination of PLMN ID and QoS level and S-NSSAI (F1-U interface measurements) (Xn-U interface measurements) Where filter is a combination of PLMN ID and QoS level. (X2-U interface measurements)
EP_F1U (F1-U interface), EP_XnU (Xn-U interface), EP_X2U (X2-U interface)	DRB.FIUpdepSduVolumeUL	PLMN, 5QI   QCI, SNSSAI		Integer	UL PDCP SDU Data Volume per interface
EP_N3 (contained by GNBCUUPFunction)	GTP.DelayDlPsaUpNgranMean.5QI GTP.DelayDlPsaUpNgranMean.SNSSAI			Real	DL packet delay between NG-RAN and PSA UPF Each measurement is a real representing the average delay in microseconds
EP_N3 (contained by GNBCUUPFunction)	GTP.DelayDlPsaUpNgranDist.5QI.Bin GTP.DelayDlPsaUpNgranDist.SNSSAI.Bin		Y	Integer	Distribution of DL GTP packet delay between PSA UPF and NG-RAN Each measurement is an integer representing the number of GTP PDUs measured with the delay within the range of the bin
GNBCUCPFunction	PAG.ReceivedNbrCnInitiated			Integer	Number of CN Initiated paging records received by the gNB-CU
GNBCUCPFunction	PAG.ReceivedNbrRanInitiated			Integer	Number of NG-RAN Initiated paging records received by the gNB-CU
GNBCUCPFunction	PAG.DiscardedNbrCnInitiated			Integer	Number of CN Initiated paging records discarded at the gNB-CU
GNBCUCPFunction	PAG.DiscardedNbrRanInitiated			Integer	Number of NG-RAN Initiated paging records discarded at the gNB-CU