

Received Total Wideband Power for cell

Counters

Counter ID	Counter Name	Counter Description
67199617	VS.MeanRTWP	Mean Power of Totally Received Bandwidth for Cell

Formula

$$\text{VS.MeanRTWP} = ([\text{VS.RTWP.CUM}]/[\text{VS.RTWP.SAMPLE}]-\{1121\})/\{10\}$$

Unit

dBm

Mean Downlink Throughput of single HSDPA MAC-d Flows

Counters

Counter ID	Counter Name	Counter Description
67202894	VS.HSDPA.MeanChThroughput	Mean Downlink Throughput of single HSDPA MAC-d Flows for Cell

Formula

$$\text{VS.HSDPA.MeanChThroughput} = \{8\} * [\text{VS.HSDPA.MeanChThroughput.TotalBytes}] / [\text{VS.HSDPA.MeanChThroughput.Times}]$$

Unit

kbit/s

Transmitted Power of Non-HSDPA Carrier for Cell

Counters

Counter ID	Counter Name	Counter Description
67202902	VS.MeanTCP.NonHS	Mean Non-HSDPA Transmitted Carrier Power for Cell

Formula

$VS.MeanTCP.NonHS = \{10\} * (\log_{10}[VS.TCP.NonHS.CUM.NoLog] - \log_{10}[VS.TCP.NonHS.SAMPLE])$

Unit

dBm

Number of UE-related Signaling Connection Setups over the S1 Interface

Counters

Counter ID	Counter Name	Counter Description	Network Element	Applicable Mode
1526728272	L.S1Sig.ConnEst.Att	Number of UE-related signaling connection setup attempts over the S1 interface	Micro BTS3900	L
1526728273	L.S1Sig.ConnEst.Succ	Number of successful UE-related signaling connection setups over the S1 interface	Micro BTS3900	L

Formula

None

Unit

None

1526727547	L.E-RAB.NormRel	Total number of normal E-RAB releases initiated by the eNodeB in a cell	Micro BTS3900	L
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Formula

None

Unit

None

Number of Users in a Cell

Counters

Counter ID	Counter Name	Counter Description	Network Element	Applicable Mode
1526727378	L.Traffic.User.Avg	Average number of users in a cell	Micro BTS3900	L
1526727379	L.Traffic.User.Max	Maximum number of users in a cell	Micro BTS3900	L

Description

The counters measure the average and maximum number of UEs in a cell.

Measurement Points

The counters are measured based on the user state at the sampling time. The number of UEs in RRC_CONNECTED Mode in a cell is sampled per second. At the end of a measurement period, the average and maximum of these sampling results are used as the values of the corresponding counters.

Formula

None

Unit

None

Counters

Counter ID	Counter Name	Counter Description	Network Element	Applicable Mode
1526728297	L.UL.Interference.Max	Maximum uplink interference and noise received by each PRB in a cell	Micro BTS3900	L
1526728298	L.UL.Interference.Avg	Average uplink interference and noise received by each PRB in a cell	Micro BTS3900	L
1526728435	L.UL.Interference.Min	Minimum uplink interference and noise received by each PRB in a cell	Micro BTS3900	L

Description

The counters measure the uplink interference and noise received by each PRB in a cell.

Measurement Points

The total power of noise floor and neighboring cell interference received by each PRB is measured per TTI in the uplink, the eNodeB divides the total power of noise floor and neighboring cell interference by the number of PRBs, the value is used as a sampling result. Note for SFN cells, the average interference power and neighboring cell interference of each PRB should be measured for all physical cells. At the end of a measurement period, the maximum, average, and minimum of these sampling results are used as the values of the L.UL.Interference.Max, L.UL.Interference.Avg, and L.UL.Interference.Min counters, respectively.

Formula

None

Unit

dBm

Total Number of Abnormal E-RAB Releases in a Cell

Counters

Counter ID	Counter Name	Counter Description	Network Element	Applicable Mode
1526727546	L.E-RAB.AbnormRel	Total number of abnormal releases of activated E-RABs initiated by the eNodeB	Micro BTS3900	L

Formula

None

Unit

None

Duration of Cell Unavailability

Counters

Counter ID	Counter Name	Counter Description	Network Element	Applicable Mode
1526727209	L.Cell.Unavail.Dur.Sys	Duration of cell unavailability due to system faults	Micro BTS3900	L
1526727210	L.Cell.Unavail.Dur.Manual	Duration of cell unavailability due to human factors	Micro BTS3900	L

Formula

None

Unit

s

Cell Unavailability Duration caused by O&M (Cell)

Counters

Counter ID	Counter Name	Counter Description
67199736	VS.Cell.UnavailTime	Cell Unavailability Duration

Formula

None

Unit

s

Duration of Cell Unavailability Due to System Faults

Counters

Counter ID	Counter Name	Counter Description
67204837	VS.Cell.UnavailTime.Sys	Duration of Cell Unavailability Due to System Faults for Cell

Formula

None

Unit

s

Counters Related to the Number of Processed RRC Connection Requests

Counters

Counter ID	Counter Name	Counter Description
67190586	VS.RRC.AttConnEstab.Sum	Number of Processed RRC Connection Requests for Cell

Formula

None

Unit

None

Counters Related to the Number of Successful RRC Connection Setups

Counters

Counter ID	Counter Name	Counter Description
67179299	RRC.SuccConnEstab.sum	Number of Successful RRC Connection Setups for Cell

Formula

None

Unit

None

Number of CS RAB Setup Requests for Different Services

Counters

Counter ID	Counter Name	Counter Description
67179825	VS.RAB.AttEstabCS.Conv	Number of CS Conversational RAB Establishment Requests for Cell

Formula

None

Unit

None

Number of Successful CS RAB Establishments in the Cell for Different Services

Counters

Counter ID	Counter Name	Counter Description
67179827	VS.RAB.SuccEstabCS.Conv	Number of Successful CS Conversational RAB Establishments for Cell

Formula

None

Unit

None

Number of HSDPA UEs in a Cell

Counters

Counter ID	Counter Name	Counter Description
67202932	VS.HSDPA.UE.Mean.Cell	Average Number of HSDPA UEs in a Cell

Formula

None

Unit

None
