

QualNet

File Edit View Tools Animation Help

Architect Analyzer Packet Tracer File Editor

X: 1071.79 Y: 891.10 Z: 0.00 X-Y View Saved Views

Human in the Loop

File System

Toolset

Visualization Controls

Runtime Analysis

Animation Speed

Animation Filters

Event Filters

All

Node Mobility

Broadcast Packet

Multicast Packet

Unicast Packet

Packet Received

Packet Dropped

Packet Collision

Packet Queuing

Node Orientation

Layer Filters

1.1

-1000 -500 0 500 1000 1500 2000 2500

1500

1000

500

0

SIM 00hr : 00m : 30s

100%

Table View

Output Window

Error Log

Watch Variables

Batch Experiments

Select a node by clicking on it inside the 3D View

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ArchitectAnalyzerPacket Tracer

Scenario Properties

Devices

UMTS Devices

Network Components

Links

Applications

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Standard

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Point-to-point Link Properties (Link 190.0.1.0)

Point-to-point Link Properties

General

Network Protocol

Routing Protocol

ARP

Faults

Background Traffic

File Statistics

General Properties

Property	Value
[+] Link Type	Wired
[+] MAC Protocol	802.3
802.3 Bandwidth	100 Mbps
802.3 Propagation Delay	2.5 micro-seconds
802.3 Mode	Full-Duplex
802.3 Drop Probability	0
Link UUID	LINK3

Find

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X: 1394.28Y: 1475.44Z: 0.00X-Y ViewSaved Views

Human in the Loop

Scenario Properties

1.1untitled_1*

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1500

1000

500

0

-1000

-500

0

500

1000

1500

2000

2500

[1]

[2]

[3]

[4]

[5]

[6]

[7]

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X: -522.75 Y: 37.11 Z: 0.00 X-Y View Saved Views

Human in the Loop:

Scenario Properties

File System

Devices

UMTS Devices

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Visualization Controls

Runtime Analysis

1.1 untitled_1*

Nodes Groups Interfaces Networks Applications Hierarchies

Network Address	Type	Member Nodes	UUID
190.0.1.0	Link	{2, 1}	LINK1
190.0.1.0	Link	{1, 3}	LINK2
190.0.1.0	Link	{3, 2}	LINK3
190.0.1.0	Link	{2, 4}	LINK4
190.0.1.0	Link	{2, 5}	LINK5
190.0.1.0	Link	{3, 6}	LINK6
190.0.1.0	Link	{3, 7}	LINK7

Table ViewOutput WindowError LogWatch VariablesBatch Experiments

Toolset Standard

CBRCELLULARFTPFPGEN
GSMLOOK UPSUPRNETELNET

3D visualization of a network topology with nodes and links.

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Taskbar icons: File Explorer, Edge, Mail, etc.

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Human in the Loop

File System

Animation Speed

SlowFast

Animation Filters

Event Filters

All

Node Mobility

Broadcast Packet

Multicast Packet

Unicast Packet

Packet Received

Packet Dropped

Packet Collision

Packet Queuing

Node Orientation

Layer Filters

1.11.2

-1000-50001000150020002500

0000510011501

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Select a node by clicking on it inside the 3D View

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Histogram Bin Size 1

qualnet_Dec_31_20_15_17_37.s...

[FTP Server : Total Unicast Messages Sent (messages)] Compare By: Node ID

File System

Statistics

File List

Application

- Bellman-Ford
- Telnet Client
- Telnet Server
- FTP Server
 - Unicast Session ...
 - Unicast Session ...
 - First Unicast Fra...
 - Last Unicast Fra...
 - First Unicast Fra...
 - Last Unicast Fra...
 - Total Unicast Fra...
 - Total Unicast Fra...
 - First Unicast Mes...
 - Last Unicast Mes...
 - First Unicast Mes...
 - Last Unicast Mes...
 - Total Unicast Me...
 - Total Unicast Me...
 - Total Unicast Dat...
 - Total Unicast Ov...
 - Total Unicast Ov...
 - Average Unicast ...
 - Unicast Offered ...
 - Unicast Received...
 - Smoothed Unicas...
 - Average Unicast ...
 - Total Unicast 3tt...

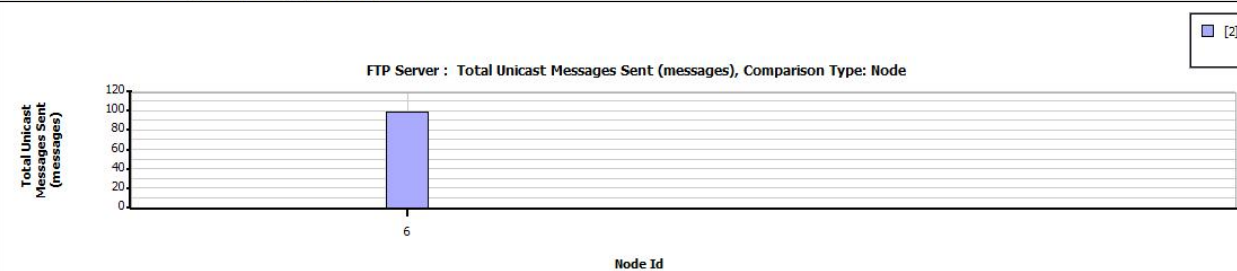
Transport

Network

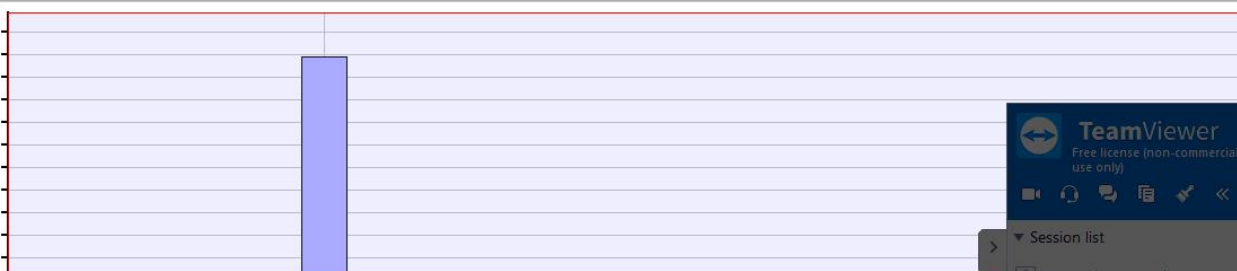
MAC

Miscellaneous

FTP Server : Total Unicast Messages Sent (messages), Comparison Type: Node



Node Id	Total Unicast Messages Sent (messages)
6	100



Node Id	Total Unicast Messages Sent (messages)
6	100

Overview Statistics File Error Log

Graph Created

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Scenario Properties (untitled_1)

General Terrain Channel Properties Mobility GSM Statistics and Tracing Supplemental Files External Interfaces Help

Terrain	
Property	Value
[.] Coordinate System	Cartesian
Scenario Dimensions (meters)	X: 150 Y: 150
Altitude Range (meters)	Above Sea Level: 1500 Below Sea Level: 0
Terrain Data Format	None
Urban Terrain Format	None
Weather Mobility Interval	10 seconds

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Wireless Subnet Properties (Wireless Subnet 190.0.1.0)

General Physical Layer MAC Layer Network Layer Routing Protocol Router Properties File Statistics Help

MAC Layer

Property	Value
[-] MAC Protocol	802.15.4
[-] Device Type	Reduced Function Device(RFD)
Poll Interval	1 seconds
Enable Data Acknowledgements	No
Beacon Order(the value of 15 disables beaconing)	3
SuperFrame Order	3
Device Starting Time	0 seconds
Device Stopping Time	0 seconds
MAC Propagation Delay	1 micro-seconds
Enable Promiscuous Mode	No
Enable LLC	No

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GSM LOOK UP SUPR APP TEL NET

TRAF TRAF UITS

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Wireless Subnet Properties (Wireless Subnet 190.0.1.0)

General Physical Layer MAC Layer Network Layer Routing Protocol Router Properties File Statistics Help

Physical Layer

Property	Value
Listenable Channels	channel0
Listening Channels	channel0
[+] Radio Type	802.15.4 Radio
Radio Overlay ID	[Optional]
Transmission Power (dBm)	3.0
[+] Frequency Band	2400000000
Channel Index	11
Packet Reception Model	PHY802.15.4 Reception Model
Modulation Scheme	O-QPSK
CCA Mode	Carrier Sense
[+] Specify Antenna Model from File	No
Antenna Model	Omnidirectional
Antenna Gain (dB)	0.0
Antenna Height (meters)	1.5
Antenna Efficiency	0.8
Antenna Mismatch Loss (dB)	0.3
Antenna Cable Loss (dB)	0.0
Antenna Connection Loss (dB)	0.2
Antenna Orientation Azimuth (degrees)	0

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Default Device Properties (Default Device 1)

General Node Configuration Interfaces

Interface 0

Physical Layer

MAC Layer

Network Layer

Routing Protocol

Faults

File Statistics

MAC Layer

Property	Value
[] MAC Protocol	802.15.4
[] Device Type	Full Function Device(FFD)
[] FFD Mode	Coordinator
Poll Interval	1 seconds
Enable Data Acknowledgements	No
Beacon Order(the value of 15 disables beacons)	3
SuperFrame Order	3
Device Starting Time	0 seconds
Device Stopping Time	0 seconds
MAC Propagation Delay	1 micro-seconds
Enable Promiscuous Mode	No
Enable LLC	No
Configure MAC Address	No

Find

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Default Device Properties (Default Device 2)

General Node Configuration Interfaces

Interface 0

Physical Layer

MAC Layer

Network Layer

Routing Protocol

Faults

File Statistics

MAC Layer

Property	Value
[] MAC Protocol	802.15.4
[] Device Type	Full Function Device(FFD)
[] FFD Mode	PAN Coordinator
Enable GTS	No
Enable Data Acknowledgements	No
Beacon Order(the value of 15 disables beaconi...	3
SuperFrame Order	3
Device Starting Time	0 seconds
Device Stopping Time	0 seconds
MAC Propagation Delay	1 micro-seconds
Enable Promiscuous Mode	No
Enable LLC	No
Configure MAC Address	No

Find

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Group Default Device Properties (Default Device 3, Default Device 1, Default Device 2, Default Device 4, Default Device 5, Default...

General Node Configuration Interfaces

Mobility and Placement

Network Layer

Routing Protocol

BGP Configuration

MSDP Configuration

Router Properties

Transport Layer

MPLS

Application Layer

LTE Model

User Behavior Model

Battery Model

External Interface Properties

File Statistics

Statistics Database

Packet Tracing

HeatMap Settings

Routing Protocol

Property	Value
[+] Routing Protocol IPv4	AODV
Network Diameter (hops)	35
Node Traversal Time	40 milliseconds
Active Route Timeout Interval	3 seconds
My Route Timeout Interval	6 seconds
Maximum RREQ Retries	2
Route Deletion Constant	5
Enable Hello Messages	No
Enable Local Repair	No
Enable Better Route Search	No
Enable Acknowledgement Processing	No
Maximum Number of Buffered Packets	100
Maximum Buffer Size (bytes)	0
Open Bi-directional Connection	No
TTL Start	1
TTL Increment	2
TTL Threshold	7
RREQs Replied by Destination Only	No
Enable IP Forwarding	Yes

Find

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GSM LOOK UP SUPR APP TEL NET

TRAF TRAF

Toolset Standard

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CBR Properties

General

General Properties

Property	Value
Source	4
Destination	6
Items to Send	100
Item Size (bytes)	48
Interval	1 seconds
Start Time	1 seconds
End Time	25 seconds
[-] Priority	Precedence
Precedence Value	0
Enable RSVP-TE	No
Enable MDP	No
Session Name	[Optional]

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Human in the Loop:

Animation Speed: Slow Fast

Animation Filters

Event Filters

Runtime Analysis

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Layer Filters

Table View Output Window Error Log Watch Variables Batch Experiments

Select a node by clicking on it inside the 3D View

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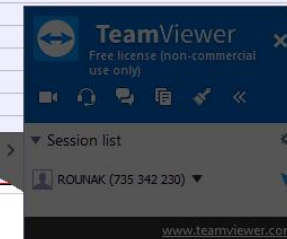
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Architect Analyzer Packet Tracer File Editor

Histogram Bin Size 1

qualnet_Dec_31_20_15_38_36.s...

[CBR Server : Total Unicast Data Received (bytes)] Compare By : Node ID

Application

CBR Client

Unicast Session ...

Unicast Session ...

First Unicast Fra...

Last Unicast Fra...

Total Unicast Fra...

First Unicast Mes...

Last Unicast Mes...

Total Unicast Me...

Total Unicast Dat...

Total Unicast Ov...

Unicast Offered ...

CBR Server

Unicast Session ...

Unicast Session ...

First Unicast Fra...

Last Unicast Fra...

Total Unicast Fra...

First Unicast Mes...

Last Unicast Mes...

Total Unicast Me...

Total Unicast Dat...

Total Unicast Ov...

Average Unicast ...

Transport

Network

MAC

Physical

SSCS

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CBR Server : Total Unicast Data Received (bytes), Comparison Type: Node

Total Unicast Data Received (bytes)

Node Id

Node Id	Total Unicast Data Received (bytes)
6	~650
9	~1000

[1024]

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Architect Analyzer Packet Tracer

Scenario Properties 1.1 1.2

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Table View Output Window Error Log Watch Variables Batch Experiments

Default Device Properties (Default Device 1)

General Node Configuration Interfaces

Interface 0

Physical Layer

MAC Layer

Network Layer

Routing Protocol

Faults

File Statistics

Physical Layer

Property	Value
Listenable Channels	channel0
Listening Channels	channel0
[+] Radio Type	802.11b Radio
Radio Overlay ID	[Optional]
[+] Enable Auto Rate Fallback	No
Data Rate	2 Mbps
[+] Frequency Band	2.4 GHz
Country Code	Specify Wi-Fi Country Profiles File in Scenario Prop
Channel Index for 20 MHz	6
Transmission Power at 1 Mbps (dBm)	15.0
Transmission Power at 2 Mbps (dBm)	15.0
Transmission Power at 5.5 Mbps (dBm)	15.0
Transmission Power at 11 Mbps (dBm)	15.0
[+] Use Legacy 802.11b PHY Values	No
Receive Sensitivity at 1 Mbps (dBm)	-82.0
Receive Sensitivity at 2 Mbps (dBm)	-80.0
Receive Sensitivity at 5.5 Mbps (dBm)	-78.0
Receive Sensitivity at 11 Mbps (dBm)	-76.0
Packet Reception Model	PHY802.11b Reception Model

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Default Device Properties (Default Device 1)

GeneralNode ConfigurationInterfaces

Interface 0

Physical Layer

MAC Layer

Network Layer

Routing Protocol

Faults

File Statistics

Property	Value
MAC Protocol	802.11
Short Packet Transmit Limit	7
Long Packet Transmit Limit	4
RTS Threshold (bytes)	0
Stop Receiving after Header Mode	No
Station Association Type	Dynamic
SSID	SSID
Set as Access Point	Yes
Beacon Start Time (TUs)	1
Beacon Interval (TUs)	200
DTIM Period (beacon intervals)	3
Relay Frames	Yes
Enable Power Save Mode	No
Set as Point Coordinator	No
Set Mesh Parameters	No
Database Control	NONE
MAC Propagation Delay	1 micro-seconds
Enable Promiscuous Mode	No
Enable LLC	No

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Human in the Loop:

Scenario Properties

Network Components

Links

Applications

Dynamic Address Applications

Single Host Applications

Other Components

Toolset Standard

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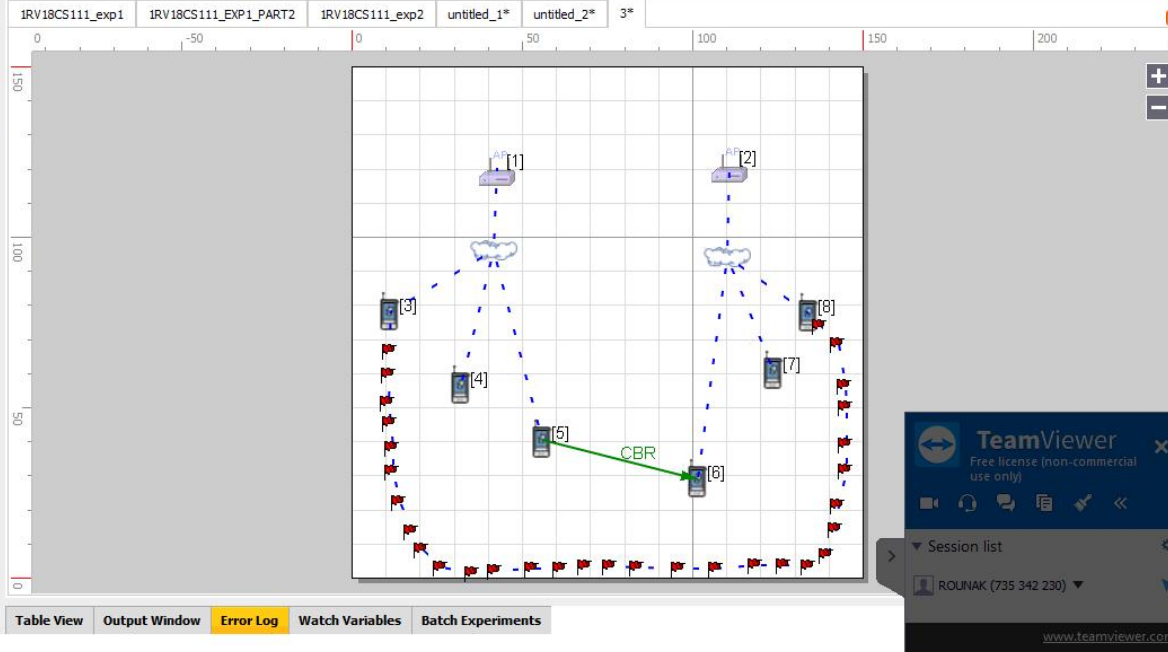
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Human in the Loop:

File System

Animation Speed

SlowFast

Animation Filters

Event Filters

All

Node Mobility

Broadcast Packet

Multicast Packet

Unicast Packet

Packet Received

Packet Dropped

Packet Collision

Packet Queuing

Node Orientation

Layer Filters

Select a node by clicking on it inside the 3D View

IRV18CS111_exp1IRV18CS111_EXP1_PART2IRV18CS111_exp2untitled_1*untitled_2*3

-100-50050100150200

150100500

[1][2][3][4][5][6][7]

CBR

SIM 00hr : 02m : 01s40%

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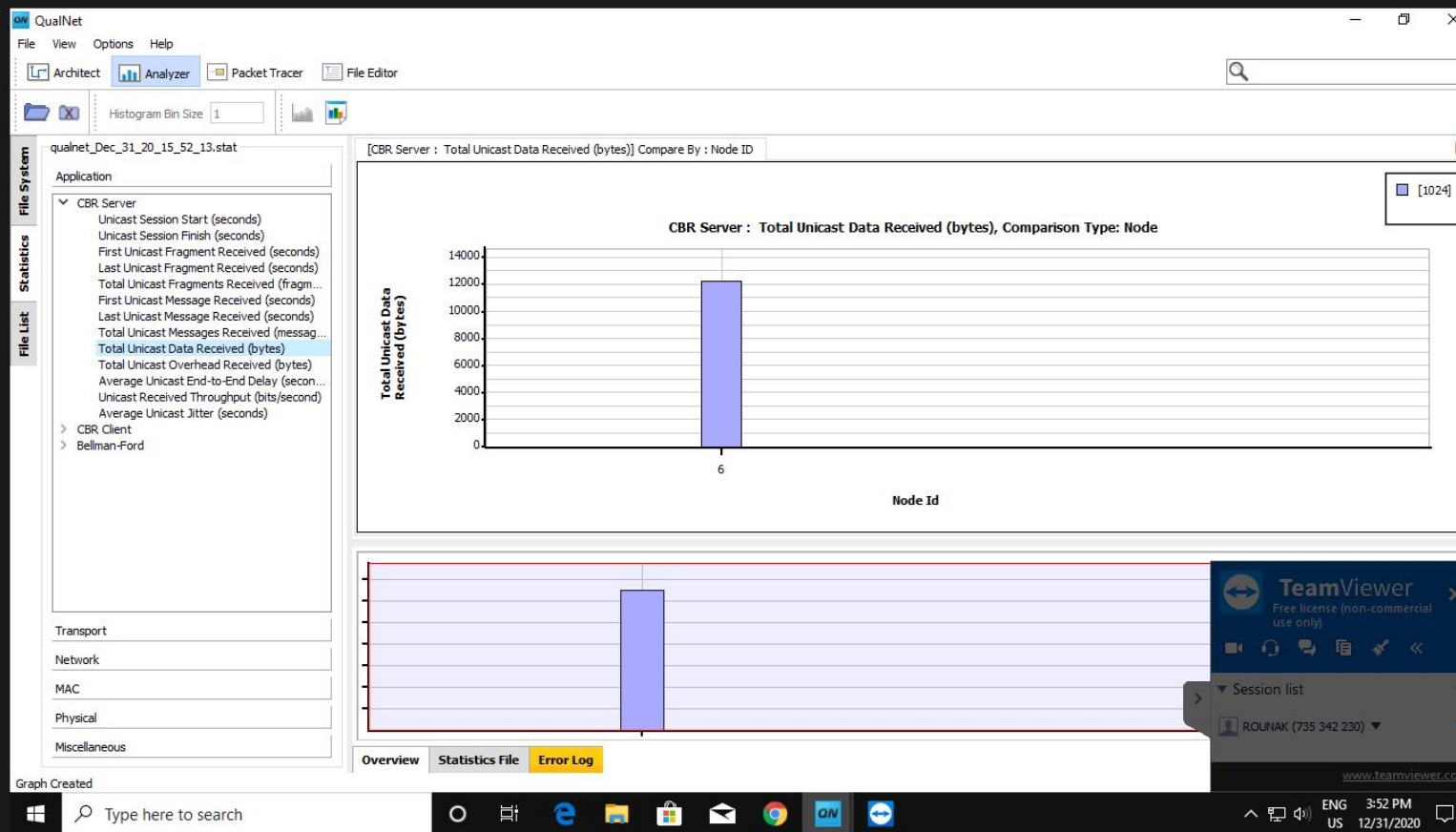
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Histogram Bin Size 1

qualnet_Dec_31_20_15_52_13.stat

File System

Statistics

File List

Application

CBR Server

Unicast Session Start (seconds)

Unicast Session Finish (seconds)

First Unicast Fragment Received (seconds)

Last Unicast Fragment Received (seconds)

Total Unicast Fragments Received (fragm...

First Unicast Message Received (seconds)

Last Unicast Message Received (seconds)

Total Unicast Messages Received (messag...

Total Unicast Data Received (bytes)

Total Unicast Overhead Received (bytes)

Average Unicast End-to-End Delay (secon...

Unicast Received Throughput (bits/second)

Average Unicast Jitter (seconds)

CBR Client

Bellman-Ford

Transport

Network

MAC

Physical

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Graph Created

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Windows Taskbar

Search

Taskbar Icons

[CBR Server : Total Unicast Data Received (bytes)] Compare By : Node ID

CBR Server : Total Unicast Data Received (bytes), Comparison Type: Node

Total Unicast Data Received (bytes)

Node Id

Information: The following stat lines are not used for plotting any graphs and are ignored by Analyzer

Line Number(13):1,	[0],	Physical,	802.11,Average signal power (dBm) = -68.977906
Line Number(14):1,	[0],	Physical,	802.11,Average interference (dBm) = -90.970077
Line Number(243):2,	[0],	Physical,	802.11,Average signal power (dBm) = -68.791581
Line Number(244):2,	[0],	Physical,	802.11,Average interference (dBm) = -90.970077
Line Number(473):3,	[0],	Physical,	802.11,Average signal power (dBm) = -64.751245
Line Number(474):3,	[0],	Physical,	802.11,Average interference (dBm) = -90.970077
Line Number(688):4,	[0],	Physical,	802.11,Average signal power (dBm) = -69.097658
Line Number(689):4,	[0],	Physical,	802.11,Average interference (dBm) = -90.970077
Line Number(903):5,	[0],	Physical,	802.11,Average signal power (dBm) = -70.209897
Line Number(904):5,	[0],	Physical,	802.11,Average interference (dBm) = -90.970077

Overview

Statistics File

Error Log

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Histogram Bin Size1

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File System

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CBR Server

Unicast Session Start (seconds)

Unicast Session Finish (seconds)

First Unicast Fragment Received (seconds)

Last Unicast Fragment Received (seconds)

Total Unicast Fragments Received (fragments)

First Unicast Message Received (seconds)

Last Unicast Message Received (seconds)

Total Unicast Messages Received (messages)

Total Unicast Data Received (bytes)

Total Unicast Overhead Received (bytes)

Average Unicast End-to-End Delay (seconds)

Unicast Received Throughput (bits/second)

Average Unicast Jitter (seconds)

CBR Client

Unicast Session Start (seconds)

Unicast Session Finish (seconds)

First Unicast Fragment Sent (seconds)

Last Unicast Fragment Sent (seconds)

Total Unicast Fragments Sent (fragments)

First Unicast Message Sent (seconds)

Last Unicast Message Sent (seconds)

Total Unicast Messages Sent (messages)

Total Unicast Data Sent (bytes)

Total Unicast Overhead Sent (bytes)

Unicast Offered Load (bits/second)

Transport

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Physical

Miscellaneous

Node Id

5

Total Unicast Messages Sent (messages)

28

24

20

16

12

8

4

0

24

Information: The following stat lines are not used for plotting any graphs and are ignored by Analyzer

Line Number(13):1, , [0], Physical, 802.11,Average signal power (dBm) = -68.977906

Line Number(14):1, , [0], Physical, 802.11,Average interference (dBm) = -90.970077

Line Number(243):2, , [0], Physical, 802.11,Average signal power (dBm) = -68.791581

Line Number(244):2, , [0], Physical, 802.11,Average interference (dBm) = -90.970077

Line Number(473):3, , [0], Physical, 802.11,Average signal power (dBm) = -64.751245

Line Number(474):3, , [0], Physical, 802.11,Average interference (dBm) = -90.970077

Line Number(688):4, , [0], Physical, 802.11,Average signal power (dBm) = -69.097658

Line Number(689):4, , [0], Physical, 802.11,Average interference (dBm) = -90.970077

Line Number(903):5, , [0], Physical, 802.11,Average signal power (dBm) = -70.209897

Line Number(904):5, , [0], Physical, 802.11,Average interference (dBm) = -90.970077

OverviewStatistics FileError Log

Graph Created

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Session list

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12/31/2020