

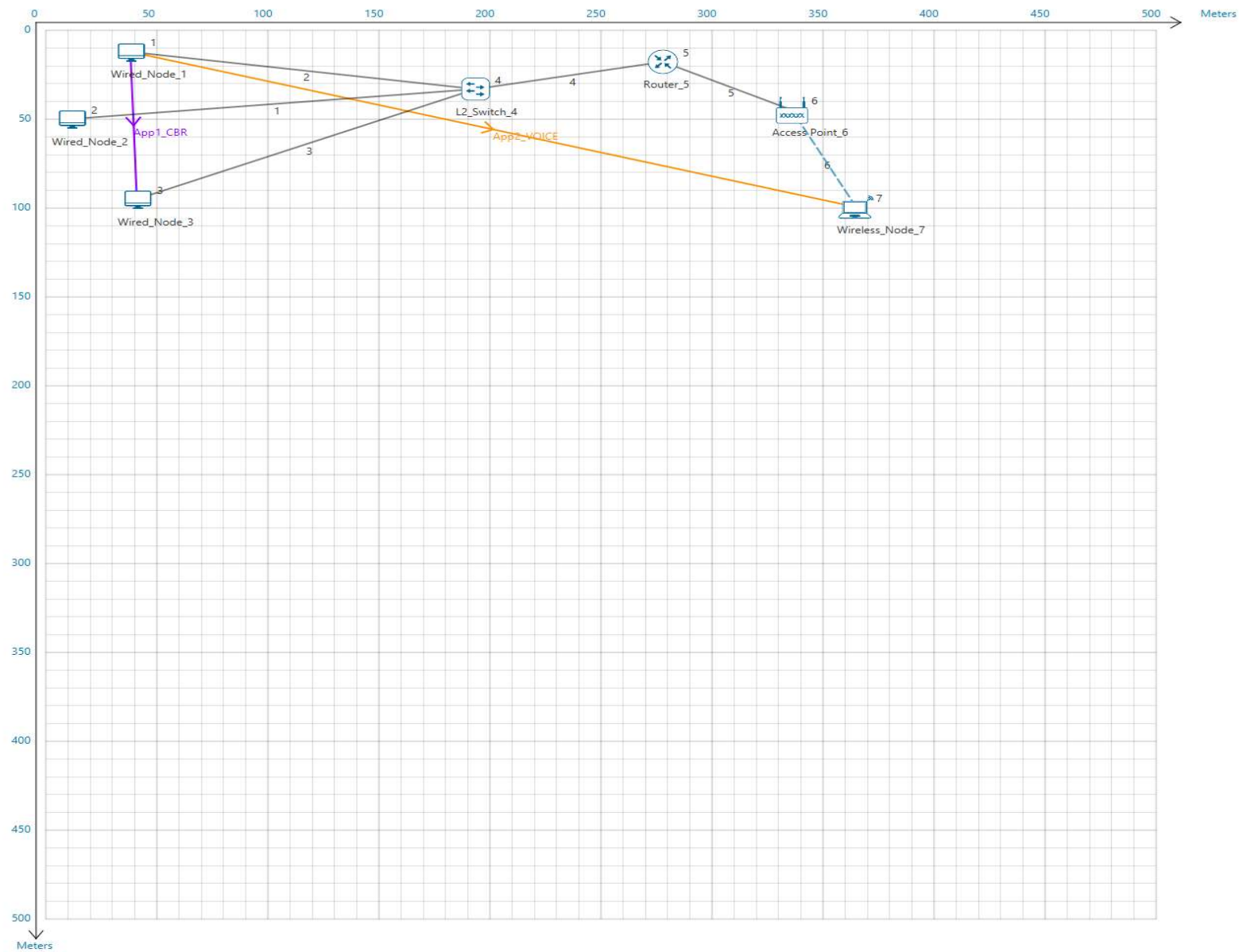
Experiment

2021/08/10 10:38:47

Table Of Contents

1. [Network Scenario](#)
2. [Link_Metrics](#)
3. [Queue_Metrics](#)
4. [TCP_Metrics](#)
5. [IP_Metrics](#)
6. [IP_Forwarding_Table](#)
 - a. [WIRED_NODE_1](#)
 - b. [WIRED_NODE_2](#)
 - c. [WIRED_NODE_3](#)
 - d. [ROUTER_5](#)
 - e. [WIRELESS_NODE_7](#)
7. [UDP_Metrics](#)
8. [IEEE802.11_Metrics](#)
9. [Switch_Mac_address_table](#)
 - a. [L2_SWITCH_4](#)
10. [Application_Metrics](#)
11. [Plots](#)
 - a. [Link_Throughput](#)
 - a. [Link_1_Throughput \(Bi-directional Aggregated\)](#)
 - b. [Link_2_Throughput \(Bi-directional Aggregated\)](#)
 - c. [Link_3_Throughput \(Bi-directional Aggregated\)](#)
 - d. [Link_4_Throughput \(Bi-directional Aggregated\)](#)
 - e. [Link_5_Throughput \(Bi-directional Aggregated\)](#)
 - f. [Link_6_Throughput \(Bi-directional Aggregated\)](#)
 - b. [Application_Throughput](#)
 - a. [App1_CBR_Throughput](#)
 - b. [App2_VOICE_Throughput](#)

Network Scenario



Link_Metrics

Link_id	Link_throughput_plot	Packet_transmitted	Packet_errored	Packet_collided	Bytes_transmitted(bytes)	Payload_transmitted(bytes)	Overhead_transmitted(bytes)
---------	----------------------	--------------------	----------------	-----------------	--------------------------	----------------------------	-----------------------------

Link_id	Link_throughput_plot	Data	Control	Data	Control	Data	Control	Bytes_transmitted(bytes)	Payload_transmitted(bytes)	Overhead_transmitted(bytes)
		Data	Control	Data	Control	Data	Control			
All	NA	3006	1510	1	1	0	0	2043832	1787300	256532
1	Link_throughput	0	0	0	0	0	0	0	0	0
2	Link_throughput	1003	505	0	1	0	0	907916	814380	93536
3	Link_throughput	503	505	1	0	0	0	800916	732920	67996
4	Link_throughput	500	0	0	0	0	0	107000	80000	27000
5	Link_throughput	500	0	0	0	0	0	107000	80000	27000
6	Link_throughput	500	500	0	0	0	0	121000	80000	41000

Queue_Metrics

Device_id	Port_id	Queued_packet	Dequeued_packet	Dropped_packet
-----------	---------	---------------	-----------------	----------------

TCP_Metrics

Source	Destination	Local Address	Remote Address	Syn Sent	Syn-Ack Sent	Segment Sent	Segment Received	Segment Retransmitted	Ack Sent	Ack Received	Duplic
WIRED_NODE_1	ANY_DEVICE	11.1.1.2:0	0.0.0.0:0	0	0	0	0	0	0	0	
WIRED_NODE_2	ANY_DEVICE	11.1.1.3:0	0.0.0.0:0	0	0	0	0	0	0	0	
WIRED_NODE_3	ANY_DEVICE	11.1.1.4:0	0.0.0.0:0	0	0	0	0	0	0	0	
ROUTER_5	ANY_DEVICE	11.1.1.1:0	0.0.0.0:0	0	0	0	0	0	0	0	
WIRELESS_NODE_7	ANY_DEVICE	11.2.1.2:0	0.0.0.0:0	0	0	0	0	0	0	0	
WIRED_NODE_1	WIRED_NODE_3	11.1.1.2:82	11.1.1.4:36934	1	0	500	0	3	1	501	
WIRED_NODE_3	WIRED_NODE_1	11.1.1.4:36934	11.1.1.2:82	0	1	0	500	0	502	1	

IP_Metrics

Device Id	Packet sent	Packet forwarded	Packet received	Packet discarded	TTL expired	Firewall blocked
1	1005	0	502	0	0	0
2	0	0	0	0	0	0
3	503	0	504	0	0	0
5	500	500	0	0	0	0
7	0	0	500	0	0	0

IP_Forwarding_Table

WIRED_NODE_1

Network Destination	Netmask/Prefix len	Gateway	Interface	Metrics	Type
11.1.0.0	255.255.0.0	on-link	11.1.1.2	300	LOCAL
224.0.0.1	255.255.255.255	on-link	11.1.1.2	306	MULTICAST
224.0.0.0	240.0.0.0	on-link	11.1.1.2	306	MULTICAST
255.255.255.255	255.255.255.255	on-link	11.1.1.2	999	BROADCAST
0.0.0.0	0.0.0.0	11.1.1.1	11.1.1.2	999	DEFAULT

WIRED_NODE_2

Network Destination	Netmask/Prefix len	Gateway	Interface	Metrics	Type
11.1.0.0	255.255.0.0	on-link	11.1.1.3	300	LOCAL
224.0.0.1	255.255.255.255	on-link	11.1.1.3	306	MULTICAST
224.0.0.0	240.0.0.0	on-link	11.1.1.3	306	MULTICAST
255.255.255.255	255.255.255.255	on-link	11.1.1.3	999	BROADCAST
0.0.0.0	0.0.0.0	11.1.1.1	11.1.1.3	999	DEFAULT

WIRED_NODE_3

Network Destination	Netmask/Prefix len	Gateway	Interface	Metrics	Type
Network Destination	Netmask/Prefix len	Gateway	Interface	Metrics	Type

Network Destination	Netmask/Prefix len	Gateway	Interface	Metrics	Type
11.1.0.0	255.255.0.0	on-link	11.1.1.4	300	LOCAL
224.0.0.1	255.255.255.255	on-link	11.1.1.4	306	MULTICAST
224.0.0.0	240.0.0.0	on-link	11.1.1.4	306	MULTICAST
255.255.255.255	255.255.255.255	on-link	11.1.1.4	999	BROADCAST
0.0.0.0	0.0.0.0	11.1.1.1	11.1.1.4	999	DEFAULT

ROUTER_5

Network Destination	Netmask/Prefix len	Gateway	Interface	Metrics	Type
11.2.0.0	255.255.0.0	on-link	11.2.1.1	300	LOCAL
11.1.0.0	255.255.0.0	on-link	11.1.1.1	300	LOCAL
224.0.0.1	255.255.255.255	on-link	11.1.1.1 11.2.1.1	306	MULTICAST
224.0.0.0	240.0.0.0	on-link	11.1.1.1 11.2.1.1	306	MULTICAST
255.255.255.255	255.255.255.255	on-link	11.2.1.1	999	BROADCAST
255.255.255.255	255.255.255.255	on-link	11.1.1.1	999	BROADCAST

WIRELESS_NODE_7

Network Destination	Netmask/Prefix len	Gateway	Interface	Metrics	Type
11.2.0.0	255.255.0.0	on-link	11.2.1.2	300	LOCAL
224.0.0.1	255.255.255.255	on-link	11.2.1.2	306	MULTICAST
224.0.0.0	240.0.0.0	on-link	11.2.1.2	306	MULTICAST
255.255.255.255	255.255.255.255	on-link	11.2.1.2	999	BROADCAST
0.0.0.0	0.0.0.0	11.2.1.1	11.2.1.2	999	DEFAULT

UDP Metrics

Device id	Local address	Foreign address	Datagram sent	Datagram received
1	11.1.1.2:12668	11.2.1.2:53000	500	0
7	11.2.1.2:53000	11.1.1.2:12668	0	500

IEEE802.11_Metrics

DeviceId	InterfaceId	Frame Sent	Frame Received	RTS Sent	RTS Received	CTS Sent	CTS Received	Successful Backoff	Failed Backoff
6	2	0	0	0	0	0	0	0	0
6	2	0	0	0	0	0	0	0	0
6	2	0	0	0	0	0	0	0	0
6	2	500	0	0	0	0	0	500	0
7	1	0	500	0	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0

Switch Mac address table**L2_SWITCH_4**

Mac Address	Type	OutPort
AF1D00000201	Dynamic	1
AF1D00000101	Dynamic	2
AF1D00000301	Dynamic	3
AF1D00000501	Dynamic	4

Application_Metrics

Application Id	Throughput Plot	Application Name	Source Id	Destination Id	Packet generated	Packet received	Payload generated (bytes)	Payload received (bytes)	Throug
1	Application_Throughput_plot	App1_CBR	1	3	500	500	730000	730000	
2	Application_Throughput_plot	App2_VOICE	1	7	500	500	80000	80000	