

# Mesh

## Mesh Test Plan



Sun Nov 07 08:38:43 PST 2021

Test Setup Information		
Device Under Test	Name	tip-root
	Hardware Version	eap101
	Model Number	eap101
	SSIDs	OpenWifi123 OpenWifi transit
	Passwords	OpenWifi OpenWifi meshpassword
	BSSIDs	34:ef:b6:af:4a:84 34:ef:b6:af:4a:7d 34:ef:b6:af:4a:7c
	Notes	[BLANK]
Actual Run Time	4.372 m	

## Objective

Automated testing for 3-node mesh systems. This test can report throughput, latency, MCS and other measurements at different mesh topologies. Pass/Fail thresholds and Scoring results are not currently implemented for this test. The Calibrate test will auto-calibrate the zero-attenuation RSSI for the Mobile Stations chamber. Calibration should be run after any changes are made to the Mesh attenuator configuration or wiring changes. The Throughput test moves the mobile station through a different set of fixed locations and runs a throughput test. The Roam test moves the mobile station along various paths and reports throughput, latency, and other values over time.

## Summary Results

Test	Result	Score	Elapsed	Info
Roam Chamber Location: A-B--C STA Location: Current Position	2.4Ghz PASS 5Ghz PASS	0	4.293 m	STA: ?-Orbit Current UDP DL Sum Throughput: 76.75 Mbps

## Roam

### Summary

Traffic on each AP in the test.

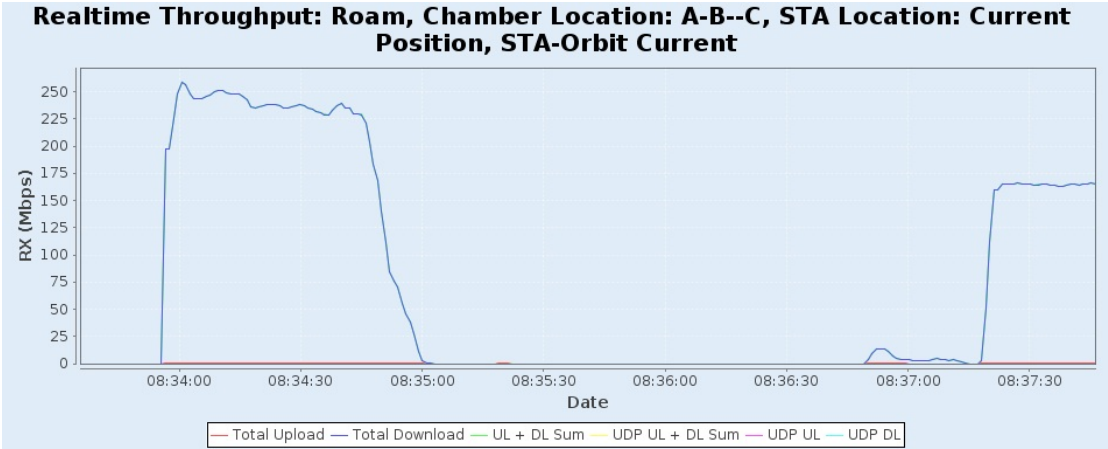
### Roam

Chamber Location: A-B--C

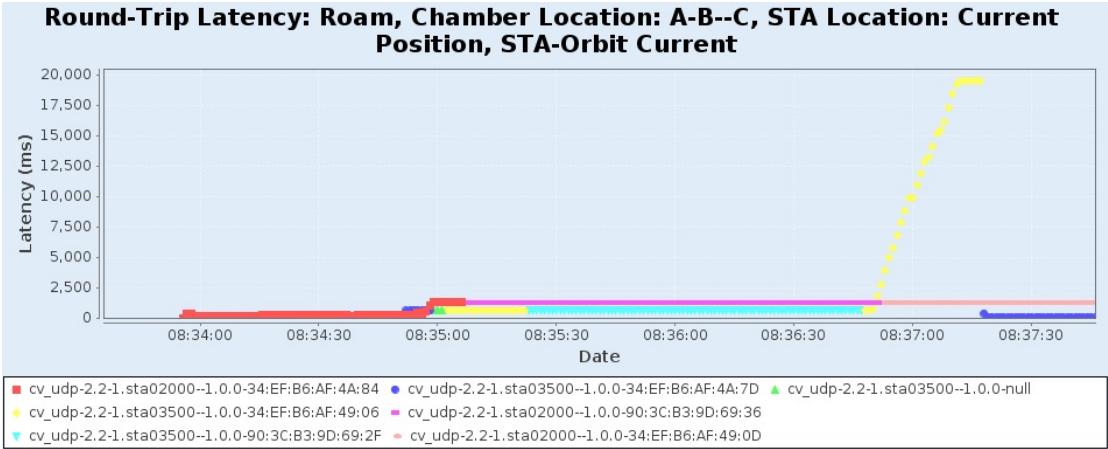
STA Location: Current Position Results

Type	Result	Notes
AP Chamber Position		A-B--C
Station Chamber Position		Current Position

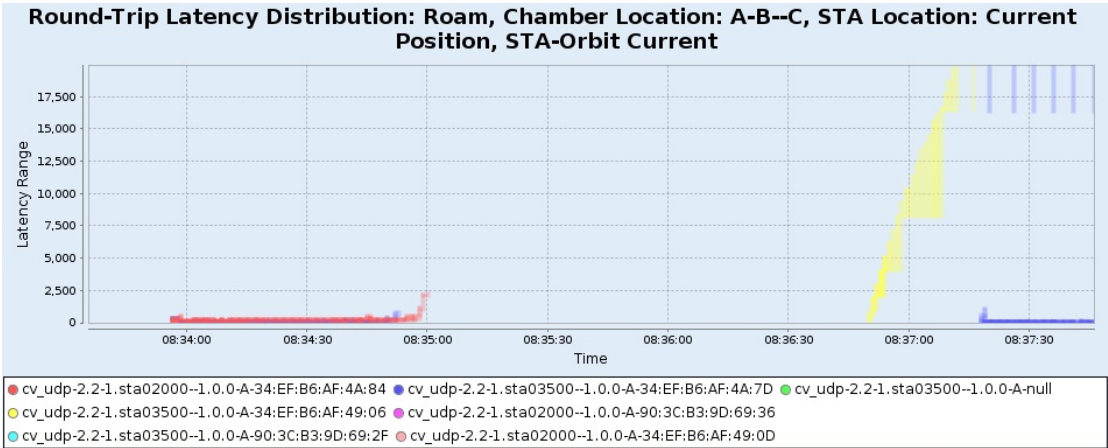




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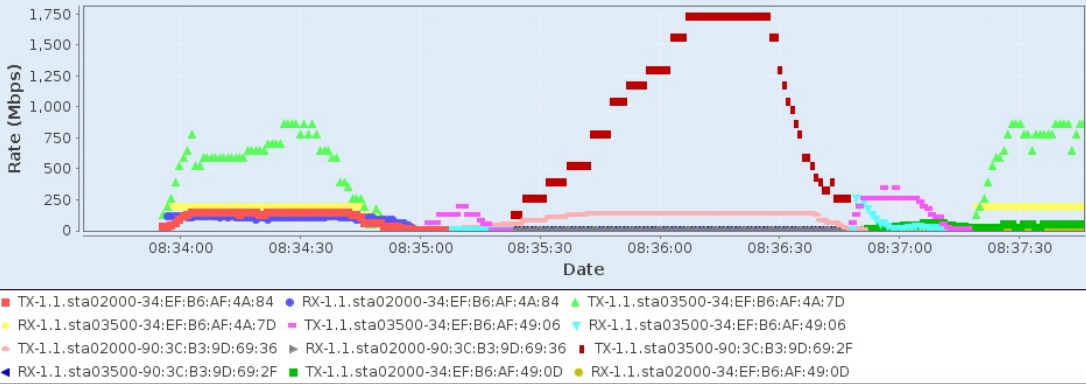


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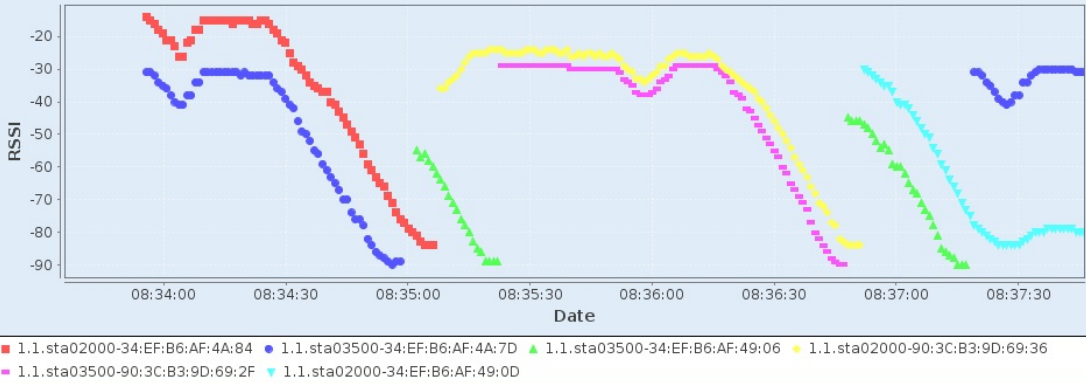
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MCS: Roam, Chamber Location: A-B--C, STA Location: Current Position, STA-Orbit Current



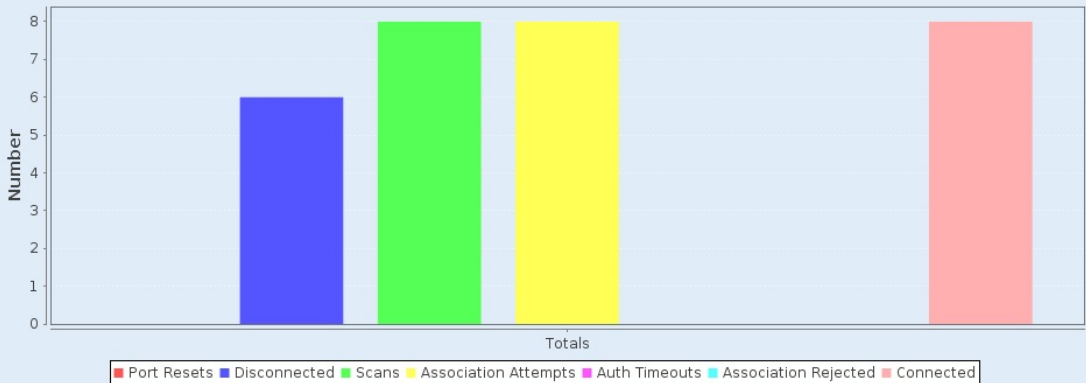
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RSSI: Roam, Chamber Location: A-B--C, STA Location: Current Position, STA-Orbit Current

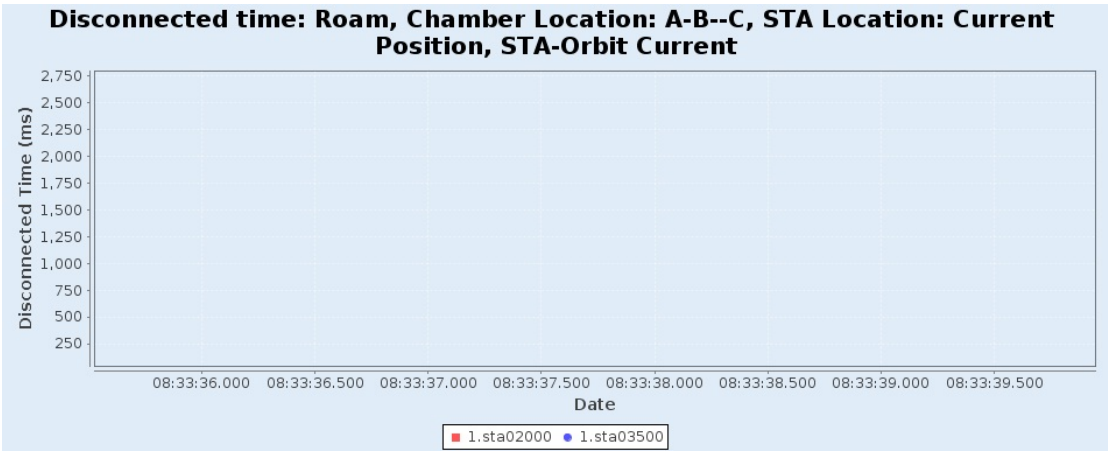


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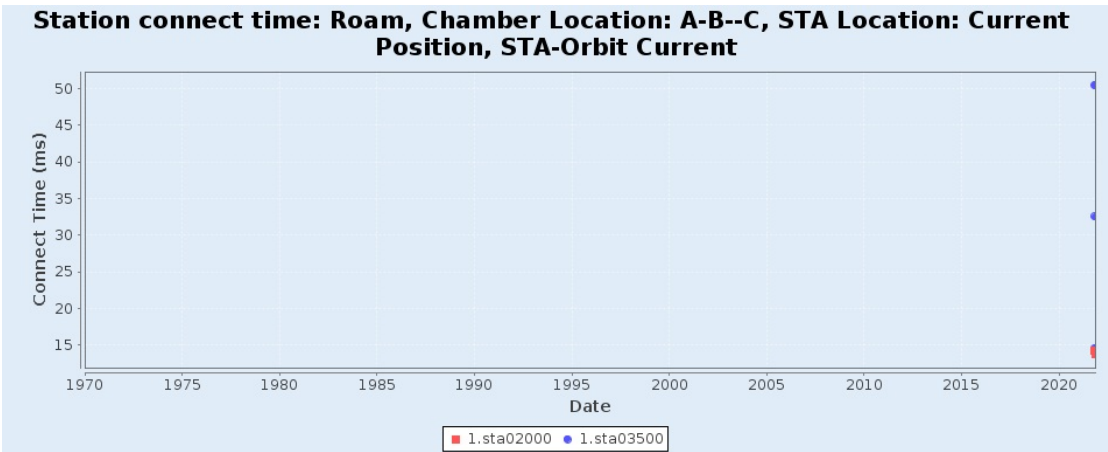
WiFi Events: Roam, Chamber Location: A-B--C, STA Location: Current Position, STA-Orbit Current



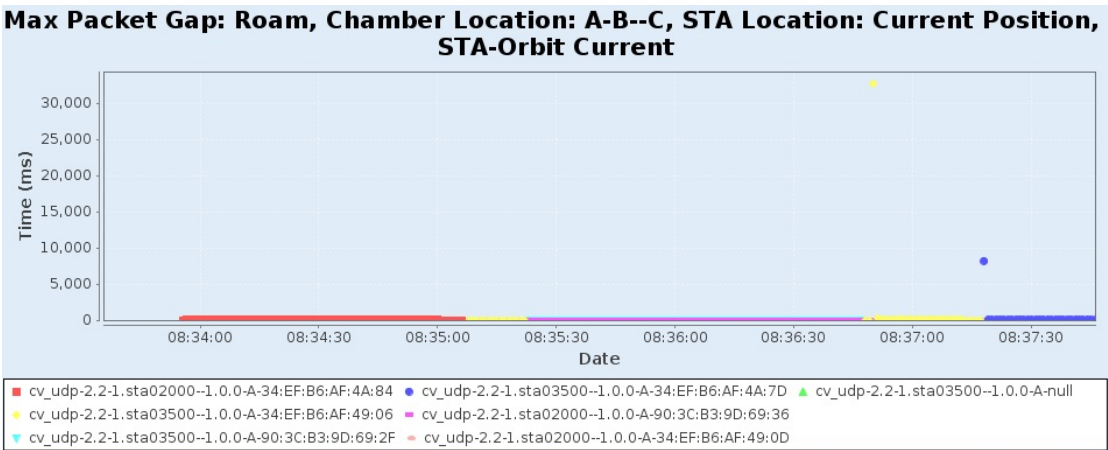
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Test configuration and LANforge software version	
Auto-Helper	true
Show TX MCS Graph	true
Show RX MCS Graph	true
Skip 2.4Ghz Tests	false
Skip 5Ghz Tests	false
Skip DHCP on Reconnect	true
Duration	60

Multi-Conn	5
ToS	0
Chamber [0]	Root
Chamber [1]	Node1
Chamber [2]	Node2
Chamber [3]	
Chamber [4]	Mobile-Sta
STA Count [0]	1
STA Count [1]	1
STA Count [2]	1
STA Count [3]	
STA Count [4]	1
AP Arrangements	A-B--C
STA Positions	Current Position
Traffic Types	UDP
Traffic Directions	Download
Tests	Roam
Node Combinations	STA
Requested Speed	65%
Requested Opposite Speed	56Kbps
Requested Velocity	100
Requested Path Loops	1
Background Scan Module	Disabled
Background Short Interval	30
Background Long Interval	300
Background RSSI Threshold	-60
WiFi Radio [0][0]	1.2.6 wiphy0 Firmware: 10.1-ct-8x-__xtH-022-bcdb24ff Resource: ct522-7475
WiFi Radio [0][3]	1.2.7 wiphy1 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: ct522-7475
WiFi Radio [1][0]	1.3.6 wiphy0 Firmware: 10.1-ct-8x-__xtH-022-bcdb24ff Resource: ct522-74ab
WiFi Radio [1][3]	1.3.7 wiphy1 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: ct522-74ab
WiFi Radio [2][0]	1.4.6 wiphy0 Firmware: 10.1-ct-8x-__xtH-022-bcdb24ff Resource: ct522-7481
WiFi Radio [2][3]	1.4.7 wiphy1 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: ct522-7481
WiFi Radio [4][0]	1.1.6 wiphy2 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: ct523c-ab1a
WiFi Radio [4][3]	1.1.7 wiphy3 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: ct523c-ab1a
Add STA Traffic	false
Show Events	true
Build Date	Fri 01 Oct 2021 02:19:58 PM PDT
Build Version	5.4.4
Git Version	19e3b237002e1fac187bdad69aa9b27cbd34161b

[CSV Data](#)

[META Information for Mesh](#)