TR-398 Issue 2

WiFi Performance Test Plan

Wed May 25 07:02:25 PDT 2022

Test Setup Information		
Device Under Test	Name	adtran-root
	SSIDs	adtran-tr398 adtran-tr398
	Passwords	lanforge lanforge
	BSSIDs	e8:2c:6d:85:73:64 e8:2c:6d:85:73:6a
	Notes	[BLANK]
Estimated Run Time	14 m	
Actual Run Time	16.79 m	

Objective

The TR-398 Issue 2 WiFi Performance test plan by the Broadband forum provides a comprehensive set of tests to qualify the performance of WiFi access points (APs) designed for residential and small office environments. Radio performance, Throughput, Connection Stability, Airtime Fairness, AP Co-existence, Mu_MIMO Performance, Spatial Consistency and Long-term Stability are some of the test areas covered in this test plan. The test plan is designed for service providers deploying in home WiFi APs to qualify the APs in the lab before deployment and for equipment makers to test during the development of the APs. Candela Technologies offers a fully automated TR-398 Issue 2 test system. The user can select from the list of tests available. Most tests can run fully automated, though some require user interaction. Measurements are made and compared to the specified PASS/FAIL criteria in the TR-398 Issue 2 test plan and this report will show the summary PASS/FAIL results followed more detailed results for each test.

Summary Results

Test	Result	Candela Score	Elapsed	Info
8.1.2 Mesh Backhaul Node-2 RvR	2.4Ghz PASS 5Ghz PASS	95	16.418 m	AC 5Ghz UL 3 / 3 DL 3 / 3 AX 5Ghz UL 3 / 3 DL 3 / 3 N 2.4Ghz UL 3 / 3 DL 3 / 3 AX 2.4Ghz UL 2 / 3 DL 3 / 3

8.1.2 Mesh Backhaul Node-2 RvR

Summary

This test case measures the throughput performance of a mesh Wi-Fi system where the WiFi Repeaters are at different emulated distances from the base AP. The DUT is considered to be the combination of a Base AP and two Wi-Fi repeaters. The Base AP is defined as the AP devices connected to the wired network connection of the traffic generator and analyzer, while the Wi-Fi repeaters have only RF connections to

both the base AP and the STA. During this test, the STA is only connected to the second Wi-Fi Repeater. The Wi-Fi connection between the Base AP and Wi-Fi repeaters is configured to enable all supported radios and protocols, allowing the three devices to adapt the Wi-Fi connection according to their internal logic. The STA's RF connection is configured to a specific operating mode. The back-haul link between Base AP and the Wi-Fi Repeater is expected to be at least 802.11ac Nss=2 or better in performance for this test. The attenuation values in this setup are based on 2m distance being zero, but it is not expected that a 2m emulated distance is actually possible between Root and Node-1 or Node-1 and Node-2 because there is a double over-the-air RF path.

Setup

1. This test uses 4 chambers. The Base AP is in Chamber 1, Repeater-1 is in Chamber 2, STA is in Chamber 3, and Repeater-2 is in Chamber 4. Attenuator A connects Chamber 1 and 2, Attenuator B connects STA and Chamber 2, Attenuator C connects STA and chamber 1, Attenuator D connects Chamber 2 and chamber 4, and Attenuator E connects Chamber 4 to Chamber 3.
2. The Ethernet traffic generator connects to the Base AP.
3. The Attn A SHALL be configured to 5Ghz 2m calibrated distance plus 30dB.
4. The Attn B SHALL be configured to at least 60 dB to ensure the STA cannot talk to the root node.
5. The Attn C SHALL be configured to at least 60 dB to ensure the STA cannot talk to the root node.
6. The Attn D SHALL be configured to 5Ghz 2m calibrated distance plus 30dB.
7. The Attn E SHALL be configured to 2m calibrated distance.

STA Configurations

1. 802.11n, NSS = 2, BW = 20Mhz
2. 802.11ac, NSS = 2, BW = 80Mhz
3. 802.11ax 2.4Ghz, NSS = 2, BW = 20Mhz
4. 802.11ax, 5Ghz, NSS = 2, BW = 80Mhz

Test Procedure STA should be configured to allow use of any channel on the selected band.

For each of the STA Configurations above, run these steps.

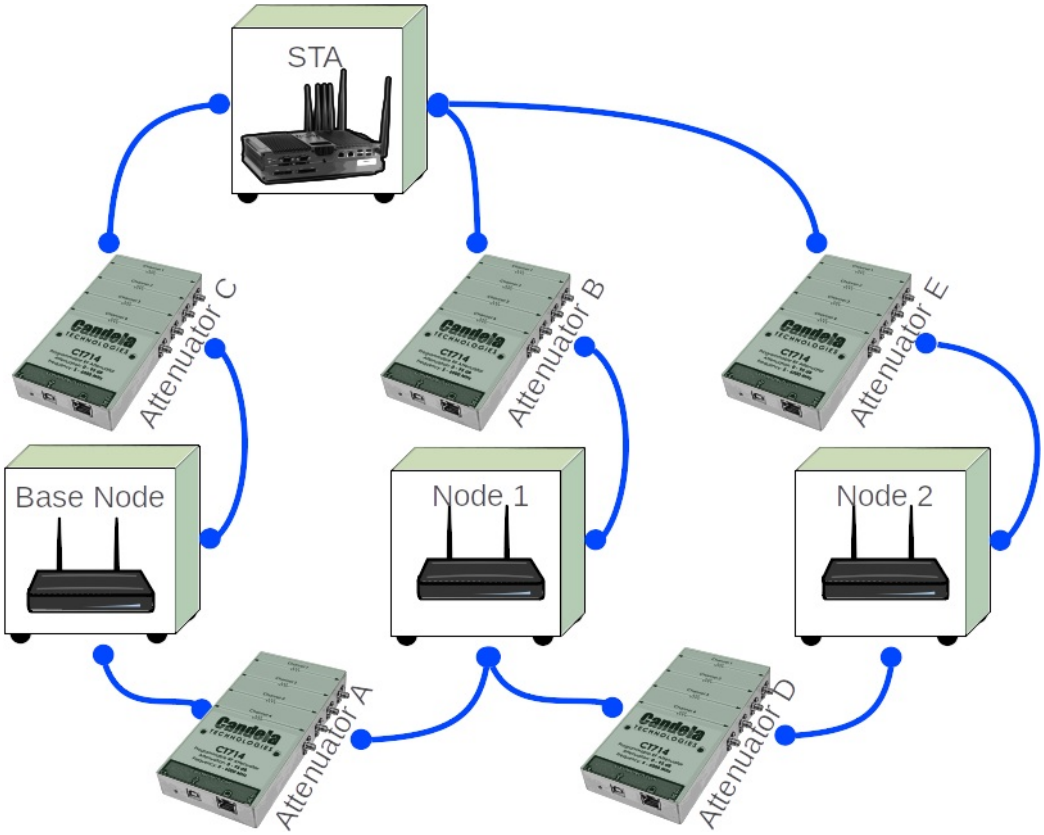
1. Configure Attenuator A and D to 5Ghz 2m calibrated distance plus 30.
2. Establish LAN connection and allow STA to associate with the DUT.
3. Measure the downlink TCP throughput to the STA, using a test time of 120 seconds.
4. Measure the uplink TCP throughput to the STA, using a test time of 120 seconds.
5. Set attenuator A and D to 5Ghz 2m calibrated distance plus 40, and repeat steps 2 - 4 inclusive.
6. Set attenuator A and D to 5Ghz 2m calibrated distance plus 50, and repeat steps 2 - 4 inclusive.

Pass/Fail Criteria For each STA Mode, at least 5 of the 6 tests must be at or above the throughput rate in the table below.

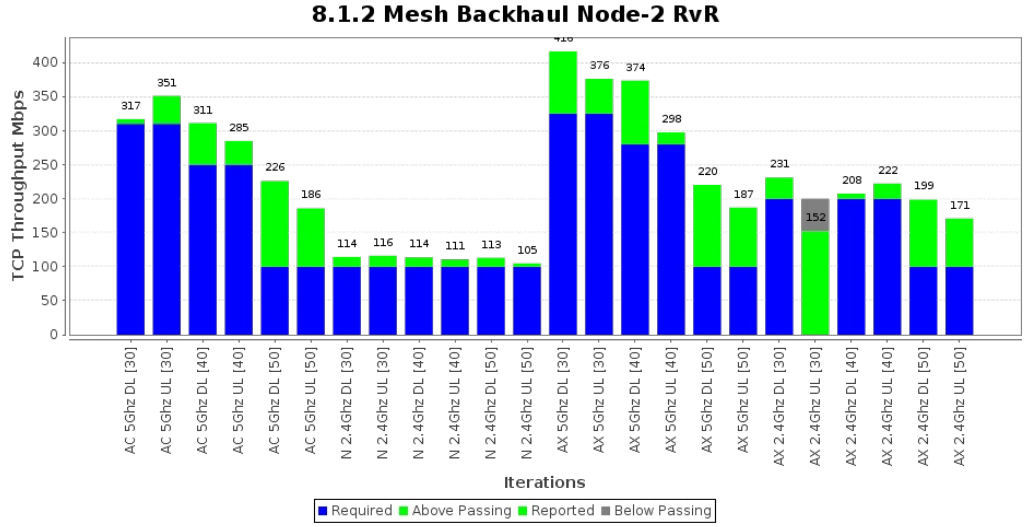
STA Mode	Atten	Download Tput (Mbps)	Upload Tput (Mbps)
802.11n	30	100	100
802.11n	40	100	100
802.11n	50	100	100
802.11ac	30	310	310
802.11ac	40	250	250
802.11ac	50	100	100
802.11ax 2.4	30	200	200
802.11ax 2.4	40	200	200
802.11ax 2.4	50	100	100
802.11ax 5Ghz	30	325	325
802.11ax 5Ghz	40	280	280
802.11ax 4Ghz	50	100	100

Candela score is the percentage of passing tests.

Testbed Diagram



CSV Data for 8.1.2 Mesh Backhaul Node-2 RvR



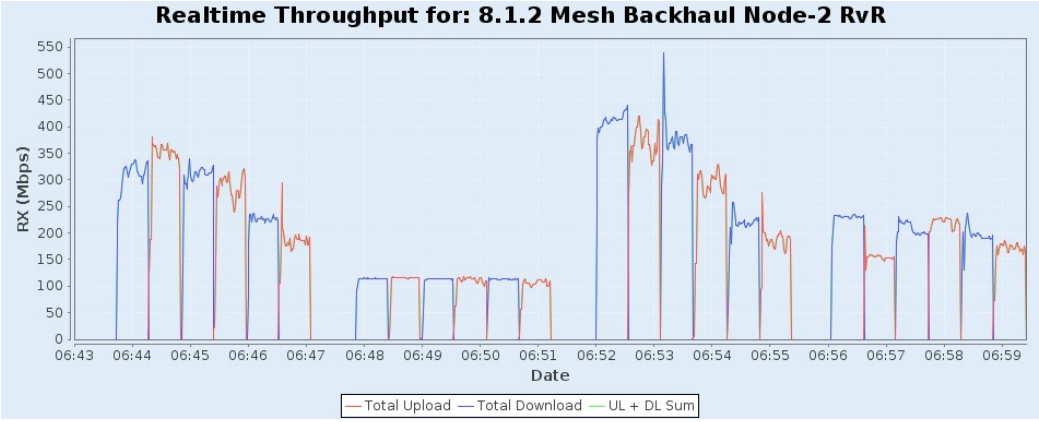
8.1.2 Mesh Backhaul Node-2 RvR Results

Type	Result	Value	P/F Value	Notes
AC 5Ghz DL [30]	PASS	317	310	Requires: 310.00 Mbps Reported: 316.99 Mbps STA-RSSI: -51 Rx-Rate: 468M Tx-Rate: 780M 802.11an-AC-80-2x2
AC 5Ghz UL [30]	PASS	351	310	Requires: 310.00 Mbps Reported: 351.21 Mbps STA-RSSI: -53 Rx-Rate: 585M Tx-Rate: 433.3M 802.11an-AC-80-2x2
AC 5Ghz DL [40]	PASS	311	250	Requires: 250.00 Mbps Reported: 311.09 Mbps STA-RSSI: -50 Rx-Rate: 520M Tx-Rate: 780M 802.11an-AC-80-2x2

AC 5Ghz UL [40]	PASS	285	250	Requires: 250.00 Mbps Reported: 284.82 Mbps STA-RSSI: -52 Rx-Rate: 585M Tx-Rate: 433.3M 802.11an-AC-80-2x2
AC 5Ghz DL [50]	PASS	226	100	Requires: 100.00 Mbps Reported: 225.97 Mbps STA-RSSI: -50 Rx-Rate: 468M Tx-Rate: 650M 802.11an-AC-80-2x2
AC 5Ghz UL [50]	PASS	186	100	Requires: 100.00 Mbps Reported: 185.78 Mbps STA-RSSI: -52 Rx-Rate: 585M Tx-Rate: 433.3M 802.11an-AC-80-2x2
N 2.4Ghz DL [30]	PASS	114	100	Requires: 100.00 Mbps Reported: 114.45 Mbps STA-RSSI: -32 Rx-Rate: 144.4M Tx-Rate: 144.4M 802.11bgn-20-2x2
N 2.4Ghz UL [30]	PASS	116	100	Requires: 100.00 Mbps Reported: 116.21 Mbps STA-RSSI: -32 Rx-Rate: 144.4M Tx-Rate: 144.4M 802.11bgn-20-2x2
N 2.4Ghz DL [40]	PASS	114	100	Requires: 100.00 Mbps Reported: 113.88 Mbps STA-RSSI: -32 Rx-Rate: 144.4M Tx-Rate: 144.4M 802.11bgn-20-2x2
N 2.4Ghz UL [40]	PASS	111	100	Requires: 100.00 Mbps Reported: 110.88 Mbps STA-RSSI: -32 Rx-Rate: 144.4M Tx-Rate: 144.4M 802.11bgn-20-2x2
N 2.4Ghz DL [50]	PASS	113	100	Requires: 100.00 Mbps Reported: 113.19 Mbps STA-RSSI: -32 Rx-Rate: 144.4M Tx-Rate: 144.4M 802.11bgn-20-2x2
N 2.4Ghz UL [50]	PASS	105	100	Requires: 100.00 Mbps Reported: 104.91 Mbps STA-RSSI: -32 Rx-Rate: 144.4M Tx-Rate: 144.4M 802.11bgn-20-2x2
AX 5Ghz DL [30]	PASS	416	325	Requires: 325.00 Mbps Reported: 416.49 Mbps STA-RSSI: -54 Rx-Rate: 600.4M Tx-Rate: 720.6M 802.11an-AX-80-2x2
AX 5Ghz UL [30]	PASS	376	325	Requires: 325.00 Mbps Reported: 376.24 Mbps STA-RSSI: -53 Rx-Rate: 720.6M Tx-Rate: 600.4M 802.11an-AX-80-2x2
AX 5Ghz DL [40]	PASS	374	280	Requires: 280.00 Mbps Reported: 373.63 Mbps STA-RSSI: -52 Rx-Rate: 720.6M Tx-Rate: 720.6M 802.11an-AX-80-2x2
AX 5Ghz UL [40]	PASS	298	280	Requires: 280.00 Mbps Reported: 297.53 Mbps STA-RSSI: -53 Rx-Rate: 720.6M Tx-Rate: 600.4M 802.11an-AX-80-2x2
AX 5Ghz DL [50]	PASS	220	100	Requires: 100.00 Mbps Reported: 220.29 Mbps STA-RSSI: -52 Rx-Rate: 720.6M Tx-Rate: 720.6M 802.11an-AX-80-2x2
AX 5Ghz UL [50]	PASS	187	100	Requires: 100.00 Mbps Reported: 187.02 Mbps STA-RSSI: -52 Rx-Rate: 720.6M Tx-Rate: 600.4M 802.11an-AX-80-2x2
AX 2.4Ghz DL [30]	PASS	231	200	Requires: 200.00 Mbps Reported: 231.04 Mbps STA-RSSI: -34 Rx-Rate: 286.7M Tx-Rate: 58.5M 802.11bgn-AX-20-2x2
AX 2.4Ghz UL [30]	FAIL	152	200	Requires: 200.00 Mbps Reported: 152.17 Mbps STA-RSSI: -34 Rx-Rate: 258M Tx-Rate: 206.5M 802.11bgn-AX-20-2x2
AX 2.4Ghz DL [40]	PASS	208	200	Requires: 200.00 Mbps Reported: 207.53 Mbps STA-RSSI: -34 Rx-Rate: 258M Tx-Rate: 258M 802.11bgn-AX-20-2x2
AX 2.4Ghz UL [40]	PASS	222	200	Requires: 200.00 Mbps Reported: 222.33 Mbps STA-RSSI: -34 Rx-Rate: 258M Tx-Rate: 258M 802.11bgn-AX-20-2x2

AX 2.4Ghz DL [50]	PASS	199	100	Requires: 100.00 Mbps Reported: 198.61 Mbps STA-RSSI: -34 Rx-Rate: 258M Tx-Rate: 258M 802.11bgn-AX-20-2x2
AX 2.4Ghz UL [50]	PASS	171	100	Requires: 100.00 Mbps Reported: 170.95 Mbps STA-RSSI: -34 Rx-Rate: 258M Tx-Rate: 258M 802.11bgn-AX-20-2x2

Realtime Throughput for: 8.1.2 Mesh Backhaul Node-2 RvR



Key Performance Indicators CSV

Test configuration and LANforge software version	
Auto-Helper	true
Use Issue-3 Behaviour	true
Allow-11w (MFP/PMF)	true
Skip 2.4Ghz Tests	false
Skip 5Ghz Tests	false
Duration-120	30
Duration-60	30
Channel 2Ghz	1
Channel 5Ghz	36
Extra Download Path-loss	0
TX Power	20
Multi-Conn	10
ToS	0
Upstream Port	1.2.2 eth2 Firmware: 0x80000aef, 1.1876.0 Resource: ct523c-3b89
Alien Upstream Port	1.2.2 eth2 Firmware: 0x80000aef, 1.1876.0 Resource: ct523c-3b89
Turn-Table Chamber	TR-398
Configured 2m 2.4Ghz RSSI	-26
Configured 2m 5Ghz RSSI	-30
Opposite-Speed:	20000
Randomize Offered Load	true
Allow Maximum NSS	false

Max-CX Offered Load:	1000000
Max-CX 2Ghz N rate:	2000000
Max-CX 2Ghz AX rate:	3000000
Max-CX 5Ghz AC rate:	8000000
Max-CX 5Ghz AX rate:	10000000
Throughput N 2Ghz rate:	100000000
Throughput AC 5Ghz rate:	560000000
Throughput AX 2Ghz rate:	200000000
Throughput AX 5Ghz rate:	720000000
Skip 4x4 5Ghz test	true
RvR issue 3	true
Throughput AX 2Ghz rate:	300000000
Throughput AX 2x2 5Ghz rate:	1100000000
Throughput AX 4x4 5Ghz rate:	1100000000
ATF Max NSS:	2
ATF Attenuation:	0
Max allowed packet loss%:	0.05
Assoc/Disassoc Traffic %:	99
Requested Rx-Sens Speed	65%
RxSens Rotation Degrees:	45
RxSens Start Step:	4
Attenuation Adjustment	0
Stop RX-Sens at pass	false
Pause on zero throughput	false
Spatial issue 3	true
Multiple STA issue 3	true
Use Virtual AX Stations	false
Use AX Radios for AC tests	false
Auto-Calibrate Interferer	true
Use 40Mhz DUT to Avoid DFS	false
Calibrate Alien with DUT Down	false
LANforge-AP is Interferer	true
Use AP-Coex Alien radios	true
Use AP-Coex Alien Tx-Power	true
User Interaction	true
Interferer AC 5G-80Mhz:	195.00 Mbps
Interferer AC 5G-40Mhz:	90.00 Mbps
Interferer AC 2.4G-20Mhz:	32.00 Mbps
Interferer AX 5G-80Mhz:	195.00 Mbps
Interferer AX 5G-40Mhz:	90.00 Mbps
Interferer AX 2.4G-20Mhz:	32.00 Mbps

2Ghz Alien AP Radio:	1.4.3 wiphy0
5Ghz Alien AP Radio:	1.4.3 wiphy0
Alien AP TxPower:	0 dBm
2Ghz Alien STA Radio:	1.4.4 wiphy1
5Ghz Alien STA Radio:	1.4.4 wiphy1
Alien STA TxPower:	0 dBm
Spatial Rotation Degrees:	30
Test Retries:	0
Stability Duration-180	60
Stability Max-Iterations	5
Stability UDP Duration	5 m
Calibration Mode:	4
Calibration NSS:	1
LANforge AP Calibration Radio:	1.4.3 wiphy0
Mesh Node-1 LANforge AP Calibration Radio:	1.5.3 wiphy0
Mesh Node-2 LANforge AP Calibration Radio:	1.6.3 wiphy0
Calibrate against LANforge AP	true
Background Scan Module	simple
Background Short Interval	30
Background Long Interval	300
Background RSSI Threshold	-65
WiFi Radio 0	1.1.5 wiphy1 Resource: ct523c-3b29
WiFi Radio 1	1.1.4 wiphy0 Resource: ct523c-3b29
WiFi Radio 2	1.1.7 wiphy3 Resource: ct523c-3b29
WiFi Radio 3	1.1.6 wiphy2 Resource: ct523c-3b29
WiFi Radio 4	1.1.9 wiphy5 Resource: ct523c-3b29
WiFi Radio 5	1.1.8 wiphy4 Resource: ct523c-3b29
WiFi AX Radio 0	1.2.wiphy0 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 1	1.2.wiphy1 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 2	1.2.wiphy2 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 3	1.2.wiphy3 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 4	1.2.wiphy4 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 5	1.2.wiphy5 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 6	1.2.wiphy6 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 7	1.2.wiphy7 Firmware: release/core68::058653f6 Resource: ct523c-3b89
	1.2.wiphy8 Firmware: release/core68::058653f6 Resource:

WiFi AX Radio 8	ct523c-3b89
WiFi AX Radio 9	1.2.wiphy9 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 10	1.2.wiphy10 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 11	1.2.wiphy11 Firmware: release/core68::058653f6 Resource: ct523c-3b89
WiFi AX Radio 12	1.3.wiphy0 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 13	1.3.wiphy5 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 14	1.3.wiphy10 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 15	1.3.wiphy15 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 16	1.3.wiphy1 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 17	1.3.wiphy6 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 18	1.3.wiphy11 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 19	1.3.wiphy16 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 20	1.3.wiphy2 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 21	1.3.wiphy7 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 22	1.3.wiphy12 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 23	1.3.wiphy17 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 24	1.3.wiphy3 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 25	1.3.wiphy8 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 26	1.3.wiphy13 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 27	1.3.wiphy18 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 28	1.3.wiphy4 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 29	1.3.wiphy9 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 30	1.3.wiphy14 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi AX Radio 31	1.3.wiphy19 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi Mesh Radio 0	1.3.18 wiphy21 Firmware: release/core68::058653f6 Resource: ct523c-de7c
WiFi Mesh Radio 1	1.3.18 wiphy21 Firmware: release/core68::058653f6 Resource: ct523c-de7c

Attenuator 0	rssi-0-2.4Ghz: -22 rssi-0-5Ghz: -41 atten: 1.1.3094.0
Attenuator 1	rssi-0-2.4Ghz: -22 rssi-0-5Ghz: -41 atten: 1.1.3094.1
Attenuator 2	rssi-0-2.4Ghz: -22 rssi-0-5Ghz: -41 atten: 1.1.3094.2
Attenuator 3	rssi-0-2.4Ghz: -22 rssi-0-5Ghz: -41 atten: 1.1.3094.3
Attenuator 4	rssi-0-2.4Ghz: -27 rssi-0-5Ghz: -43 atten: 1.1.3102.0
Attenuator 5	rssi-0-2.4Ghz: -27 rssi-0-5Ghz: -43 atten: 1.1.3102.1
Attenuator 6	rssi-0-2.4Ghz: -27 rssi-0-5Ghz: -43 atten: 1.1.3099.0
Attenuator 7	rssi-0-2.4Ghz: -27 rssi-0-5Ghz: -43 atten: 1.1.3099.1
Attenuator 8	rssi-0-2.4Ghz: -25 rssi-0-5Ghz: -43 atten: 1.1.3102.2
Attenuator 9	rssi-0-2.4Ghz: -25 rssi-0-5Ghz: -43 atten: 1.1.3102.3
Attenuator 10	rssi-0-2.4Ghz: -25 rssi-0-5Ghz: -43 atten:
Attenuator 11	rssi-0-2.4Ghz: -25 rssi-0-5Ghz: -43 atten:
AX Attenuator 0	AX rssi-0-2.4Ghz: -42 rssi-0-5Ghz: -56 atten: 1.1.3100.3
AX Attenuator 1	AX rssi-0-2.4Ghz: -42 rssi-0-5Ghz: -56 atten: 1.1.3100.2
AX Attenuator 2	AX rssi-0-2.4Ghz: -42 rssi-0-5Ghz: -56 atten: NA
AX Attenuator 3	AX rssi-0-2.4Ghz: -42 rssi-0-5Ghz: -56 atten: NA
AX Attenuator 4	AX rssi-0-2.4Ghz: -43 rssi-0-5Ghz: -42 atten: 1.1.3100.1
AX Attenuator 5	AX rssi-0-2.4Ghz: -43 rssi-0-5Ghz: -42 atten: 1.1.3100.0
AX Attenuator 6	AX rssi-0-2.4Ghz: -43 rssi-0-5Ghz: -42 atten:
AX Attenuator 7	AX rssi-0-2.4Ghz: -43 rssi-0-5Ghz: -42 atten:
AX Attenuator 8	AX rssi-0-2.4Ghz: -41 rssi-0-5Ghz: -56 atten: 1.1.3099.3
AX Attenuator 9	AX rssi-0-2.4Ghz: -41 rssi-0-5Ghz: -56 atten: 1.1.3099.2
AX Attenuator 10	AX rssi-0-2.4Ghz: -41 rssi-0-5Ghz: -56 atten:
AX Attenuator 11	AX rssi-0-2.4Ghz: -41 rssi-0-5Ghz: -56 atten:
Mesh Attenuator 0	Mesh rssi-0-2.4Ghz: -39 rssi-0-5Ghz: -60 atten: 1.1.3249.0
Mesh Attenuator 1	Mesh rssi-0-2.4Ghz: -39 rssi-0-5Ghz: -60 atten: 1.1.3249.1
Mesh Attenuator 2	Mesh rssi-0-2.4Ghz: -39 rssi-0-5Ghz: -60 atten: 1.1.3249.2
Mesh Attenuator 3	Mesh rssi-0-2.4Ghz: -39 rssi-0-5Ghz: -60 atten: 1.1.3249.3
Mesh Attenuator 4	Mesh rssi-0-2.4Ghz: -42 rssi-0-5Ghz: -65 atten: 1.1.3232.0
Mesh Attenuator 5	Mesh rssi-0-2.4Ghz: -42 rssi-0-5Ghz: -65 atten: 1.1.3232.1
Mesh Attenuator 6	Mesh rssi-0-2.4Ghz: -42 rssi-0-5Ghz: -65 atten:
Mesh Attenuator 7	Mesh rssi-0-2.4Ghz: -42 rssi-0-5Ghz: -65 atten:
Mesh Attenuator 8	Mesh rssi-0-2.4Ghz: -38 rssi-0-5Ghz: -45 atten: 1.1.3232.2
Mesh Attenuator 9	Mesh rssi-0-2.4Ghz: -38 rssi-0-5Ghz: -45 atten: 1.1.3232.3
Mesh Attenuator 10	Mesh rssi-0-2.4Ghz: -38 rssi-0-5Ghz: -45 atten:
Mesh Attenuator 11	Mesh rssi-0-2.4Ghz: -38 rssi-0-5Ghz: -45 atten:
Mesh Attenuator 12	Mesh rssi-0-2.4Ghz: -38 rssi-0-5Ghz: -57 atten: 1.1.3263.0
Mesh Attenuator 13	Mesh rssi-0-2.4Ghz: -38 rssi-0-5Ghz: -57 atten: 1.1.3263.1
Mesh Attenuator 14	Mesh rssi-0-2.4Ghz: -38 rssi-0-5Ghz: -57 atten:
Mesh Attenuator 15	Mesh rssi-0-2.4Ghz: -38 rssi-0-5Ghz: -57 atten:
Mesh Attenuator 16	Mesh rssi-0-2.4Ghz: -43 rssi-0-5Ghz: -74 atten: 1.1.3256.0
Mesh Attenuator 17	Mesh rssi-0-2.4Ghz: -43 rssi-0-5Ghz: -74 atten: 1.1.3256.1

Mesh Attenuator 18	Mesh rssi-0-2.4Ghz: -43 rssi-0-5Ghz: -74 atten: 1.1.3256.2
Mesh Attenuator 19	Mesh rssi-0-2.4Ghz: -43 rssi-0-5Ghz: -74 atten: 1.1.3256.3
Mesh Attenuator 20	Mesh rssi-0-2.4Ghz: -48 rssi-0-5Ghz: -77 atten: 1.1.3263.2
Mesh Attenuator 21	Mesh rssi-0-2.4Ghz: -48 rssi-0-5Ghz: -77 atten: 1.1.3263.3
Mesh Attenuator 22	Mesh rssi-0-2.4Ghz: -48 rssi-0-5Ghz: -77 atten:
Mesh Attenuator 23	Mesh rssi-0-2.4Ghz: -48 rssi-0-5Ghz: -77 atten:
Show Events	true
Build Date	Wed 25 May 2022 06:37:30 AM PDT
Git Version	c1baa1f4878af3cc38b927c9685b7a5fe0b17336

CSV Data

META Information for TR-398 Issue 2