|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Items Command-BB station | check\_secureboot\_status | tpm2util sb -status | raw: 0x00000009 disabled: 1 ignorearistacrt: 0 passwdintpm: 0 unlockspiflash: 1 enablespiupdate: 0 measuredboot: 0 Aboot# | tpm2util sb -status | disabled: 1 unlockspiflash: 1 |
|  | enter to ssh | Run Command on Test PC: ssh admin@192.168.1.1 Fill out the user name and password User Name: admin Password: WA2043RA74892 (Serial Number of the device) | admin@R1900-7e4:$ | Run Command on Test PC: ssh admin@192.168.1.1 Fill out the user name and password User Name: admin Password: WA2043RA74892 (Serial Number of the device) | admin@R1900-7e4:$ |
| Test Items Command-RF station | Upgrade REL FW | eth\_init | eth\_init MAC0 addr:c4:14:a2:fb:21:80 0701-134533.46 [COM3][RECV] EDMA ver 1 hw init 0701-134535.33 [COM3][RECV] phy firmware read command : mmc read 0xbf1dad40 0x7800 0x800 MMC read: dev # 0, block # 30720, count 2048 ... 2048 blocks read: OK Loaded 30 PHY firmware from flash 0701-134536.10 [COM3][RECV] Using Cisco phy firmware format file image majo,mino,inc,test are 12,1,3,0 Downloading code to PHY RAM, please wait... 0701-134540.47 [COM3][RECV] Download of code to marvell 3610m RAM complete. 0701-134541.46 [COM3][RECV] Firmware version: 12.1.3.0 0701-134542.67 [COM3][RECV] phy firmware read command : mmc read 0xbf3dad80 0x7800 0x800 MMC read: dev # 0, block # 30720, count 2048 ... 0701-134542.80 [COM3][RECV] 2048 blocks read: OK Using Cisco phy firmware format file image majo,mino,inc,test are 12,1,3,0 Downloading code to PHY RAM, please wait... 0701-134547.19 [COM3][RECV] Download of code to marvell 3610m RAM complete. 0701-134548.19 [COM3][RECV] Firmware version: 12.1.3.0 0701-134548.30 [COM3][RECV] ipq9574\_edma\_init success! IPQ9574# | eth\_init | IPQ9574# |
| Test Items Command Final Check Test station | CCT\_R | MS\_CCT\_Qilin.exe -r {Meraki \_SN} | {Meraki \_SN} has been removed | MS\_CCT\_Qilin.exe -r {Meraki \_SN} | has been removed |
| Test Items Command Final Functional Test (WNC diags) station | EnableSecureBoot | Telnet DUT command: ./fuse\_blower\_wnc\_pvt.sh | BLOWING HD FUSES WNC.... ------------------------------------- DONE ------------------------------------- ------------------------------------- VERIFYING HD FUSES WNC.... ------------------------------------- SUCCESS ------------------------------------- ------------------------------------- BLOWING ID FUSES.... ------------------------------------- DONE ------------------------------------- ------------------------------------- VERIFYING ID FUSES ------------------------------------- SUCCESS ------------------------------------- ------------------------------------- LOCKING ALL ID FUSES.... ------------------------------------- DONE /tmp# | ./fuse\_blower\_wnc\_pvt.sh | DONE DONE DONE /tmp# |
| Test Items Command- FQC station | CheckLED | 10 | ========================================================================= Enter the option to test: 10 === PWM LED Test Start === === PWM Blue led test === === PWM Green led test === === PWM RED led test === === PWM WiFi led test === === PWM LED Test End === ========================================================================= | 10 | === PWM LED Test End === |
| Test Items Command-Diag station | UBootEthTest | ping 192.168.1.254 | CM66# ping 192.168.1.254 ipq807x\_eth\_halt: done eth0 PHY5 up Speed :5000 Full duplex “5000” is the key word ipq807x\_eth\_init: done Using eth0 device ipq807x\_eth\_halt: done host 192.168.1.254 is alive The message must be seen CM66# | ping 192.168.1.254 | 5000 host 192.168.1.254 is alive |
| Test Items Command-BB station | Check Ethernet 10G link | ping 192.168.1.253 //fail retry 5 times// | eth0 PHY4 up Speed :10000 Full duplex eth0 PHY5 up Speed : 10000 Full duplex host 192.168.1.253 is alive R7AQ-C1# ping 192.168.1.253 ipq9574\_eth\_halt: done Phy ops not mapped Phy ops not mapped Phy ops not mapped Phy ops not mapped eth0 PHY4 up Speed :10000 Full duplex eth0 PHY5 up Speed : 10000 Full duplex ipq9574\_eth\_init: done Using eth0 device ipq9574\_eth\_halt: done host 192.168.1.253 is alive R7AQ-C1# | ping 192.168.1.253 //fail retry 5 times// | eth0 PHY4 up Speed :10000 Full duplex eth0 PHY5 up Speed : 10000 Full duplex host 192.168.1.253 is alive |
| Test Items Command-BB station | disable\_SPI\_write\_protect | tpm2util sb -enable unlockspiflash | Aboot# | tpm2util sb -enable unlockspiflash | Aboot# |
| Test Items Command- FQC station | CheckBeeper | 8 | ========================================================================= Enter the option to test: 8 === Audio Beeper testing === === Audio Beeper testing done === ========================================================================= | 8 | Audio Beeper testing done |
| Test Items Command-Diag station | I2C\_LED\_Green | mfg led i2cled green 255 | Command> mfg led i2cled green 255 Command> |  | Command> |
| Test Items Command-BB station | I2C Bus Check | i2cdetect -r -y 0 | root@R7AQ-C1:/# i2cdetect -r -y 0 0 1 2 3 4 5 6 7 8 9 a b c d e f00: -- -- -- -- -- -- -- -- -- -- -- -- --10: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --20: -- -- UU -- -- -- -- -- -- -- -- -- -- -- UU --30: 30 -- -- -- -- -- -- -- -- -- -- -- -- -- -- --40: 40 41 -- -- -- -- -- -- -- -- -- -- -- -- -- --50: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --60: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --70: -- UU -- -- -- -- -- --root@R7AQ-C1:/# | i2cdetect -r -y 0 | 20: -- -- UU -- -- -- -- -- -- -- -- -- -- -- UU -- 40: 40 41 -- -- -- -- -- -- -- -- -- -- -- -- -- -- 70: -- UU -- -- -- -- -- -- |
| Test Items Command-BB station | EnterUBoot | Press “ESC” to stop to boot mode when message - “Hit any key to stop autoboot:” appears and “CM66#” prompt will be displayed. Check information by each of them. | U-Boot 2016.01 - R6AQ-C4 V1.0.0.10 (May 22 2023 - 12:27:17 +0800) The version must be seen DRAM: smem ram ptable found: ver: 1 len: 4 2 GiB NAND: Could not find nand\_gpio in dts, using defaults ONFI device found ID = 2690a32c Vendor = 2c Device = a3 qpic\_nand: changing oobsize to 160 from 224 bytes 1024 MiB MMC: sdhci: Node Not found, skipping initialization \*\*\* Warning - bad CRC, using default environment PCI Link Intialized The message must be seen PCI Link Intialized The message must be seen In: serial@78B3000 Out: serial@78B3000 Err: serial@78B3000 machid: 801000e MMC Device 0 not found eth0 MAC Address from ART is not valid eth1 MAC Address from ART is not valid eth2 MAC Address from ART is not valid eth3 MAC Address from ART is not valid eth4 MAC Address from ART is not valid eth5 MAC Address from ART is not valid Hit any key to stop autoboot: 0 Net: MAC0 addr:0:3:7f:ba:db:ad PHY ID: 0x31c31c231 The message must be seen NAND read: device 0 offset 0x1280000, size 0x100000  1048576 bytes read: OK CRC check good on phy fw file (0x3B1A) PHYFW:Loading IRAM........... done. PHYFW:Loading DRAM..............done. phy fw image load good CRC-16 matches (0xE2C3) EDMA ver 1 hw init Num rings - TxDesc:1 (0-0) TxCmpl:1 (7-7) RxDesc:1 (15-15) RxFill:1 (7-7) ipq807x\_edma\_alloc\_rings: successfull ipq807x\_edma\_setup\_ring\_resources: successfull ipq807x\_edma\_configure\_rings: successfull ipq807x\_edma\_hw\_init: successfull eth0 CM66# | Press “ESC” to stop to boot mode when message - “Hit any key to stop autoboot:” appears and “CM66#” prompt will be displayed. Check information by each of them. | R6AQ-C4 V1.0.0.10 PCI Link Intialized PCI Link Intialized |
|  | Update with customer multi image | ssh-keygen -R 192.168.0.1 scp r1900\_7\_23\_70\_Release\_multiimage.bin admin@192.168.0.1:/fw\_upgrade | r1900\_7\_23\_70\_Release\_mul | 242277 kB | 7815.4 kB/s | ETA: 00:00:00 | 100% | ssh-keygen -R 192.168.0.1 scp r1900\_7\_23\_70\_Release\_multiimage.bin admin@192.168.0.1:/fw\_upgrade | r1900\_7\_23\_70\_Release\_mul | 242277 kB | 7815.4 kB/s | ETA: 00:00:00 | 100% |
| Test Items Command-RF station | Check ART Partition & cal data | hexdump /dev/caldata | root@R7AQ-C1:/# hexdump /dev/caldata 0000000 0000 0000 0000 0000 0000 0000 0000 0000 \* 0200000 root@R7AQ-C1:/# | hexdump /dev/caldata | \* \* 0000000 0000 0000 0000 0000 0000 0000 0000 0000 \* 0200000 \* |
| Test Items Command Final Functional Test (WNC diags) station | Check\_SN\_MAC | Telnet DUT command: xxd -s124 -l12 /sys/bus/i2c/devices/0-0052/eeprom | grep -iq {Meraki\_SN without-} echo $? xxd -s102 -l6 -p /sys/bus/i2c/devices/0-0052/eeprom | grep -iq {Meraki\_MAC without:} echo $? | xxd -s124 -l12 /sys/bus/i2c/devices/0-0052/eeprom | grep -iq Q4GCP6RQDHPE ~# echo $? 0 ~# xxd -s102 -l6 -p /sys/bus/i2c/devices/0-0052/eeprom | grep -iq 6C7F0CFC4F6C ~# echo $? 0 ~# |  |  |
| Test Items Command-RF station | Unlock Bootloader | (command to ATOM PC) atom ACT2 SignData --InFile " + $"{MAC}\_zealand\_inputchallengedata.txt --InFormat txt --OutFormat xml > " + $"{MAC}\_zealand\_signdata\_output.xml | 0701-135438.78 [172.16.100.100][CMD] atom ACT2 SignData --InFile C414A2FB2180\_zealand\_inputchallengedata.txt --InFormat txt --OutFormat xml > C414A2FB2180\_zealand\_signdata\_output.xml 0701-135445.77 [172.16.100.100][RECV] atom ACT2 SignData --InFile C414A2FB2180\_zea land\_inputchallengedata.txt --InFormat txt --OutFormat xml > C414A2FB2180\_zealan d\_signdata\_output.xml ]0;C:\WINDOWS\system32\conhost.exe - atom ACT2 SignData --InFile C414A2FB2180\_zealand\_inputchallengedata.txt --InFormat txt --OutFormat xml ]0;C:\WINDOWS\system32\conhost.exe meraki@T1-1-1-Q-51774 C:\Cisco\ATOM> 0701-135445.78 [INFO] meraki@T1-1-1-Q-51774 C:\Cisco\ATOM>atom ACT2 SignData --InFile C414A2FB2180\_zea land\_inputchallengedata.txt --InFormat txt --OutFormat xml > C414A2FB2180\_zealan d\_signdata\_output.xml ]0;C:\WINDOWS\system32\conhost.exe - atom ACT2 SignData --InFile C414A2FB2180\_zealand\_inputchallengedata.txt --InFormat txt --OutFormat xml ]0;C:\WINDOWS\system32\conhost.exe meraki@T1-1-1-Q-51774 C:\Cisco\ATOM> 0701-135445.80 [SUI] UnlockBootloader SPEC:-1~1 Value:0 0701-135446.33 [LOG] Read :     0 SUCCESS   256  | (command to ATOM PC) atom ACT2 SignData --InFile " + $"{MAC}\_zealand\_inputchallengedata.txt --InFormat txt --OutFormat xml > " + $"{MAC}\_zealand\_signdata\_output.xml | 256 |
| Test Items Command-RF station | Erase ART Partition & cal data | dd if=/dev/zero of=/dev/caldata cd /lib/firmware/IPQ9574/ rm caldata.bin cd /lib/firmware/qcn9000 rm caldata\_1.bin cd /lib/firmware/qcn9224 rm caldata\_1.bin rm caldata\_2.bin rm caldata\_3.bin rm caldata\_4.bin  cd / | root@R7AQ-C1:/# dd if=/dev/zero of=/dev/caldata dd: error writing '/dev/caldata': No space left on device 4097+0 records in 4096+0 records out 2097152 bytes (2.0MB) copied, 0.086951 seconds, 23.0MB/s root@R7AQ-C1:/# root@R7AQ-C1:/# root@R7AQ-C1:/# cd /lib/firmware/IPQ9574/ root@R7AQ-C1:/lib/firmware/IPQ9574# rm caldata.bin root@R7AQ-C1:/lib/firmware/IPQ9574# cd /lib/firmware/qcn9000 root@R7AQ-C1:/lib/firmware/qcn9000# rm caldata\_1.bin root@R7AQ-C1:/lib/firmware/qcn9000# cd /lib/firmware/qcn9224 root@R7AQ-C1:/lib/firmware/qcn9224# rm caldata\_1.bin root@R7AQ-C1:/lib/firmware/qcn9224# rm caldata\_2.bin root@R7AQ-C1:/lib/firmware/qcn9224# rm caldata\_3.bin root@R7AQ-C1:/lib/firmware/qcn9224# rm caldata\_4.bin root@R7AQ-C1:/lib/firmware/qcn9224# root@R7AQ-C1:/lib/firmware/qcn9224# cd / | dd if=/dev/zero of=/dev/caldata cd /lib/firmware/IPQ9574/ rm caldata.bin cd /lib/firmware/qcn9000 rm caldata\_1.bin rm caldata\_2.bin rm caldata\_3.bin rm caldata\_3.bin rm caldata.bin dd if=/dev/zero of=/dev/caldata cd /lib/firmware/IPQ9574/ rm caldata.bin cd /lib/firmware/qcn9000 rm caldata\_1.bin rm caldata\_2.bin rm caldata\_3.bin rm caldata\_3.bin dd if=/dev/zero of=/dev/caldata cd /lib/firmware/IPQ9574/ rm caldata.bin cd /lib/firmware/qcn9000 rm caldata\_1.bin rm caldata\_2.bin rm caldata\_3.bin rm caldata\_3.bin dd if=/dev/zero of=/dev/caldata cd /lib/firmware/IPQ9574/ rm caldata.bin cd /lib/firmware/qcn9000 rm caldata\_1.bin rm caldata\_2.bin rm caldata\_3.bin | root@R7AQ-C1 root@R7AQ-C1 root@R7AQ-C1 root@R7AQ-C1 root@R7AQ-C1: root@R7AQ-C1: root@R7AQ-C1 |
| Test Items Command- FQC station | EnterFinalImg | Press ”Enter” | Meraki Mode Selected ubi0: attaching mtd1 ubi0: scanning is finished ubi0: attached mtd1 (name "mtd=0", size 242 MiB) ubi0: PEB size: 262144 bytes (256 KiB), LEB size: 253952 bytes ubi0: min./max. I/O unit sizes: 4096/4096, sub-page size 4096 ubi0: VID header offset: 4096 (aligned 4096), data offset: 8192 ubi0: good PEBs: 970, bad PEBs: 0, corrupted PEBs: 0 ubi0: user volume: 4, internal volumes: 1, max. volumes count: 128 ubi0: max/mean erase counter: 1/0, WL threshold: 4096, image sequence number: 1092954512 ubi0: available PEBs: 527, total reserved PEBs: 443, PEBs reserved for bad PEB handling: 80 Secure boot enabled. must be seen [ 0.000000] Machine: Meraki CM666 must be seen (Need to change baud rate to 115200 after above information appears) Need to Verify AP information as below. Pass Criteria [   42.010889] boot 13 build 28-fighters-202212052314-G7fbe151e-L9b363a11-jenkins-rel-friend board fighters mac CC:9C:3E:E8:6C:F0 must be seen and match MAC address [ 95.644623] !!!!! {/usr/bin/brain} set wlan\_rx\_sop\_r0 to -95, ret = 0 [ 95.654130] wlan: [1834:I:ANY] ol\_ath\_ucfg\_setparam[500] PARAM\_SENS\_LEVEL  [ 95.654130]  [ 95.660043] !!!!! {/usr/bin/brain} set wlan\_rx\_sop\_r1 to -95, ret = 0 [ 95.668271] wlan: [1834:I:ANY] ol\_ath\_ucfg\_setparam[500] PARAM\_SENS\_LEVEL  [ 95.668271]  [ 95.674216] !!!!! {/usr/bin/brain} set wlan\_rx\_sop\_r2 to -95, ret = 0 Press ”Enter”and wait for the “” shows up | Press ”Enter” Press ”Enter” | Meraki Mode Selected 28-fighters-202212052314-G7fbe151e-L9b363a11-jenkins-rel-friend CC:9C:3E:E8:6C:F Secure boot enabled Machine: Meraki CM66 6 set wlan\_rx\_sop\_r2 must be seen must be seen must be seen must be seen must be seen must be seen must be seen must be seen must be seen set wlan\_rx\_sop\_r2 set wlan\_rx\_sop\_r2 set wlan\_rx\_sop\_r2 set wlan\_rx\_sop\_r2 |
|  | Check multi image | cat /status/fw\_info | "multi\_images": [  "CBA550.bin",  "CBA850.bin",  "W2000.bin",  "W2005.bin",  "W4005.bin",  "W1850.bin",  "L950.bin",  "R2105.bin",  "R2155.bin",  "W1855.bin"  ], | cat /status/fw\_info | "multi\_images": [  "CBA550.bin",  "CBA850.bin",  "W2000.bin",  "W2005.bin",  "L950.bin",  "R2105.bin",  "R2155.bin",  "W1855.bin" |
| Test Items Command-RF station | Get MAC from DUT | fw\_printenv ethaddr | sed 's/.\*=//' | The same as  root@R7AQ-C1:/# fw\_printenv ethaddr | sed 's/.\*=//' 00:0B:6B:EF:FF:90 root@R7AQ-C1:/# | fw\_printenv ethaddr | sed 's/.\*=//' | 00:0B:6B:EF:FF:90 |
| Test Items Command-RF station | Load card | rmmod ecm\_wifi\_plugin rmmod monitor rmmod wifi\_3\_0 rmmod qca\_ol insmod qca\_ol testmode=1 insmod wifi\_3\_0 diag\_socket\_app -a 192.168.1.254 & /etc/init.d/ftm start usr/sbin/ftm -n -c /tmp/ftm.conf & | root@R7AQ-C1:/# rmmod ecm\_wifi\_plugin rmmod monitor rmmod wifi\_3\_0 rmmod qcmodule is not loaded a\_ol inroot@R7AQ-C1:/# rmmod monitor qca\_ol testmode=1 insmod wifi\_3\_0 diag\_socket\_app -a 192.168.1.254 & /etc/init.d/ftm start usr/sbin/ftm -n -c /tmp/ftm.conf & root@R7AQ-C1:/# rmmod wifi\_3\_0 root@R7AQ-C1:/# rmmod qca\_ol root@R7AQ-C1:/# insmod qca\_ol testmode=1 root@R7AQ-C1:/# insmod wifi\_3\_0 root@R7AQ-C1:/# diag\_socket\_app -a 192.168.1.254 & root@R7AQ-C1:/# /etc/init.d/ftm start diag\_socket\_log: Diag\_LSM\_Init succeeded. diag\_socket\_log: Remote device detected, remote\_ids: 0x7 diag\_socket\_log: socket\_count is: 4 diag: In diag\_register\_socket\_cb, registered socket callback function diag\_socket\_log: Translating address: 192.168.1.254 diag\_socket\_log: Trying to connect to address: 192.168.1.254, port: 2500 4096+0 records in 4096+0 records out 2097152 bytes (2.0MB) copied, 0.012125 seconds, 164.9MB/s root@R7AQ-C1:/# usr/sbin/ftm -n -c /tmp/ftm.conf & root@R7AQ-C1:/# diag\_socket\_log: Successful connect to address: 192.168.1.254, port number: 2500 diag:diag\_switch\_logging: kernel supported: NUM\_PERIPHERALS = 7, DIAG\_CON\_ALL: 255 logging switched  diag\_send\_socket\_data:hdlc: Delimiter found at the middle index 3 root@R7AQ-C1:/# | rmmod ecm\_wifi\_plugin rmmod monitor rmmod wifi\_3\_0 rmmod qca\_ol rmmod qca\_ol insmod wifi\_3\_0 diag\_socket\_app -a 192.168.1.254 & | logging switched |
| Test Items Command Post Assembly station | Traffic\_Test | Console DUT (9600) command: test interface all seconds 10 fixed | Test on port1.0.1 complete Test on port1.0.2 complete Test on port1.0.3 complete Test on port1.0.4 complete | test interface all seconds 10 fixed | Test on port1.0.1 complete Test on port1.0.2 complete Test on port1.0.3 complete Test on port1.0.4 complete |
| Test Items Command-RF station | Upgrade REL FW | setenv ipaddr {dutIP}  setenv serverip {pcIP} | 0701-134548.30 [COM3][CMD] setenv ipaddr 192.168.1.1 0701-134548.42 [COM3][RECV] setenv ipaddr 192.168.1.1 IPQ9574# 0701-134548.42 [COM3][CMD] setenv serverip 192.168.1.186 0701-134548.55 [COM3][RECV] setenv serverip 192.168.1.186 IPQ9574# |  |  |
| Test Items Command-BB station | check\_rtc | hwclock --show | Thu Jul 7 22:08:54 2022 0.000000 seconds # The DUT RTC deviation should be within the specified deviation: [-12 \* day] - 6 < [SFCS – Read RTC] < [+5 \* day] + 6 The “day” is an integer (unconditional carry) (RTC deviation: -12 ~ +5, SW read / write delay: -6 ~ +6) | hwclock --show | Thu Jul 7 22:08:54 2022 0.000000 seconds |
| Test Items Command-BB station | CheckSPI\_ExtraCert | flashrom -l /etc/spi\_layout -i extra\_cert -r /tmp/extra\_cert.save.2 | flashrom v1.1 on Linux 4.19.142.Ar-27731834.rramaak419xgbeport0.1+ (x86\_64) flashrom is free software, get the source code at https://flashrom.org Using region: "extra\_cert". Using default programmer "internal" with arguments "". Using clock\_gettime for delay loops (clk\_id: 1, resolution: 1ns). Found chipset "AMD FP4". Enabling flash write... OK. Found Macronix flash chip "MX25U12835F" (16384 kB, SPI) mapped at physical address 0xff000000. Unsetting lock bit(s) failed. Reading flash... done. Aboot# | flashrom -l /etc/spi\_layout -i extra\_cert -r /tmp/extra\_cert.save.2 | Unsetting lock bit(s) failed. Reading flash... done. |
| Test Items Command-RF station | Unlock Bootloader | (split the data into 250 letters/slice) (enter to DUT) 3082045930820341a00(…) 7bf0c021e5ab6cffdeade7c623828b45 | 0701-135434.47 [COM3][CMD] 3082045930820341a0030201020203009b7b300d06092a864886f70d01010b05003028310e300c060355040a1305436973636f311630140603550403130d4143543220546f6b656e204341301e170d3233303631343137323832325a170d3333303631343137323832325a3023310e300c060355040a1305436973636f 0701-135434.61 [COM3][RECV] 3082045930820341a0030201020203009b7b300d06092a864886f70d01010b05003028310e300c060355040a1305436973636f311630140603550403130d4143543220546f6b656e204341301e170d3233303631343137323832325a170d3333303631343137323832325a3023310e300c060355040a1305436973636f ..total bytes entered so far is 250/6148 Enter Cert Chain data: 0701-135434.61 [COM3][CMD] 3111300f06035504031308313832333937353630820122300d06092a864886f70d01010105000382010f003082010a0282010100e2480e77efa5fd130f8c979791036bbf84cb5c7d33618687317c00426a50ce89f6e0da6619336667705771b6103d31b519437067c1efef94a7f7b860524a1336b4aa00a182d3c10c03 0701-135434.75 [COM3][RECV] 3111300f06035504031308313832333937353630820122300d06092a864886f70d01010105000382010f003082010a0282010100e2480e77efa5fd130f8c979791036bbf84cb5c7d33618687317c00426a50ce89f6e0da6619336667705771b6103d31b519437067c1efef94a7f7b860524a1336b4aa00a182d3c10c03 ..total bytes entered so far is 500/6148 Enter Cert Chain data: 0701-135434.75 [COM3][CMD] 47fd9c653f50d2b38cae0be147244d404ae8cf498dca8e0626480a4935e9a35e7be86395c7ee3e9fdf850cb5d638a72d35cc8239fb6e6ec09f8f9a8e906c280e0c7a0f58f2252b93f888c591f8f7a7a6979e72dc4b42f3a60e054a76d946276fc5bbc4a0744f6e11de1d393e608a0bca73c1603bcf150f5471f51aa194 0701-135434.89 [COM3][RECV] 47fd9c653f50d2b38cae0be147244d404ae8cf498dca8e0626480a4935e9a35e7be86395c7ee3e9fdf850cb5d638a72d35cc8239fb6e6ec09f8f9a8e906c280e0c7a0f58f2252b93f888c591f8f7a7a6979e72dc4b42f3a60e054a76d946276fc5bbc4a0744f6e11de1d393e608a0bca73c1603bcf150f5471f51aa194 ..total bytes entered so far is 750/6148 Enter Cert Chain data: 0701-135434.89 [COM3][CMD] 9a12216190369842209088eaa83d0425d9fa231136f20a62f89d09bd3e251ee92a4c45087c8d1b15a529468b5733fbde9ce7f2d00bfc65459e690203010001a382018f3082018b300e0603551d0f0101ff0404030204f0300c0603551d130101ff0402300030818406082b0601050507010104783076304306082b0601 0701-135435.03 [COM3][RECV] 9a12216190369842209088eaa83d0425d9fa231136f20a62f89d09bd3e251ee92a4c45087c8d1b15a529468b5733fbde9ce7f2d00bfc65459e690203010001a382018f3082018b300e0603551d0f0101ff0404030204f0300c0603551d130101ff0402300030818406082b0601050507010104783076304306082b0601 ..total bytes entered so far is 1000/6148 Enter Cert Chain data: 0701-135435.14 [COM3][CMD] 05050730028637687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f63657274732f61637432746f6b656e63612e636572302f06082b06010505073001862368747470733a2f2f746f6f6c732e636973636f2e636f6d2f706b696376732f6f637370301f0603551d23041830168014ca 0701-135435.28 [COM3][RECV] 05050730028637687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f63657274732f61637432746f6b656e63612e636572302f06082b06010505073001862368747470733a2f2f746f6f6c732e636973636f2e636f6d2f706b696376732f6f637370301f0603551d23041830168014ca ..total bytes entered so far is 1250/6148 Enter Cert Chain data: 0701-135435.28 [COM3][CMD] e4c06df8f48f9614abc785b257ac23a915ea91305c0603551d20045530533051060a2b060104010915010e003043304106082b060105050702011635687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f706f6c69636965732f696e6465782e68746d6c30460603551d1f043f303d30 0701-135435.43 [COM3][RECV] e4c06df8f48f9614abc785b257ac23a915ea91305c0603551d20045530533051060a2b060104010915010e003043304106082b060105050702011635687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f706f6c69636965732f696e6465782e68746d6c30460603551d1f043f303d30 ..total bytes entered so far is 1500/6148 Enter Cert Chain data: 0701-135435.43 [COM3][CMD] 3ba039a0378635687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f63726c2f61637432746f6b656e63612e63726c301d0603551d0e041604145977771e44f0711a7cad78902bc7ade8a117377a300d06092a864886f70d01010b05000382010100365930c14267e5be29f60bfc37b1 0701-135435.57 [COM3][RECV] 3ba039a0378635687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f63726c2f61637432746f6b656e63612e63726c301d0603551d0e041604145977771e44f0711a7cad78902bc7ade8a117377a300d06092a864886f70d01010b05000382010100365930c14267e5be29f60bfc37b1 ..total bytes entered so far is 1750/6148 Enter Cert Chain data: 0701-135435.57 [COM3][CMD] 065d96022624538974f4182cdc6b2a35ec4c2521b7060d6713db46471ba944bfcb4286f62f0ab961ef26e2e39d31676b39d6ef879c40deaf80c442135907d88d7429ed2fbd94d2a2b9c2315e8688bccdf7788a705451537f404248b0eb82a96c4302ecfc4c0a2804a81fee4155fc707f610d65ab026fd3b9fb8ff9288a 0701-135435.72 [COM3][RECV] 065d96022624538974f4182cdc6b2a35ec4c2521b7060d6713db46471ba944bfcb4286f62f0ab961ef26e2e39d31676b39d6ef879c40deaf80c442135907d88d7429ed2fbd94d2a2b9c2315e8688bccdf7788a705451537f404248b0eb82a96c4302ecfc4c0a2804a81fee4155fc707f610d65ab026fd3b9fb8ff9288a ..total bytes entered so far is 2000/6148 Enter Cert Chain data: 0701-135435.72 [COM3][CMD] 4037fbfcf0a30926b0516014bedc873a8ff9374e44995bce6fb51b0acaf3f49c4020cf31b8b2f2a0f43201afac957b285550120575f1bd44ce6c99c6403e5a53fcbedd675f7c1d4de53f87cc25fe8455e06f0a02d71348f23fddb291dc9ac8552f930e0925877f913cd3c0d9c67ea56bda2e8ff6dd308204743082035c 0701-135435.88 [COM3][RECV] 4037fbfcf0a30926b0516014bedc873a8ff9374e44995bce6fb51b0acaf3f49c4020cf31b8b2f2a0f43201afac957b285550120575f1bd44ce6c99c6403e5a53fcbedd675f7c1d4de53f87cc25fe8455e06f0a02d71348f23fddb291dc9ac8552f930e0925877f913cd3c0d9c67ea56bda2e8ff6dd308204743082035c ..total bytes entered so far is 2250/6148 Enter Cert Chain data: 0701-135435.89 [COM3][CMD] a003020102020102300d06092a864886f70d01010b05003036310e300c060355040a1305436973636f312430220603550403131b414354322041646d696e69737472617469766520526f6f74204341301e170d3132303231373139303231385a170d3432303231373138343834325a3028310e300c060355040a130543 0701-135436.03 [COM3][RECV] a003020102020102300d06092a864886f70d01010b05003036310e300c060355040a1305436973636f312430220603550403131b414354322041646d696e69737472617469766520526f6f74204341301e170d3132303231373139303231385a170d3432303231373138343834325a3028310e300c060355040a130543 ..total bytes entered so far is 2500/6148 Enter Cert Chain data: 0701-135436.05 [COM3][CMD] 6973636f311630140603550403130d4143543220546f6b656e20434130820122300d06092a864886f70d01010105000382010f003082010a0282010100e6085c232991db3fc7fe1b0e252978891e33112e47ee60718e717ff8511d9fbbae1463eea082b35d33d62ac30aa34a0f599634ab0dccb7d338df6ab95826dccb 0701-135436.18 [COM3][RECV] 6973636f311630140603550403130d4143543220546f6b656e20434130820122300d06092a864886f70d01010105000382010f003082010a0282010100e6085c232991db3fc7fe1b0e252978891e33112e47ee60718e717ff8511d9fbbae1463eea082b35d33d62ac30aa34a0f599634ab0dccb7d338df6ab95826dccb ..total bytes entered so far is 2750/6148 Enter Cert Chain data: 0701-135436.21 [COM3][CMD] bf5b27b61b62f41c66486c6755645d6474718aa5e1de3a38d86533676df7653ad32618f73167ffd77715af81d136a4229a71008baca8eb3c4a79536996df33ac3f043fe802e0263c88868cf98df7465b068fd583cac9454dfc6d0fe5a86fdfea1704573c9400532c8d9cca4e68c998ea52c7343445fee12a5efddf93df 0701-135436.35 [COM3][RECV] bf5b27b61b62f41c66486c6755645d6474718aa5e1de3a38d86533676df7653ad32618f73167ffd77715af81d136a4229a71008baca8eb3c4a79536996df33ac3f043fe802e0263c88868cf98df7465b068fd583cac9454dfc6d0fe5a86fdfea1704573c9400532c8d9cca4e68c998ea52c7343445fee12a5efddf93df ..total bytes entered so far is 3000/6148 Enter Cert Chain data: 0701-135436.38 [COM3][CMD] 6a8cb9ed85b587c6a0a1f6bf800f26d37e87c6f8f16576b54658f996f8382b421385cc5ead16a98235dc66798b9bd4b74c0f35a9c478e35076db2dedd9a6aa394161010203010001a382019930820195300e0603551d0f0101ff04040302010630120603551d130101ff040830060101ff020100305c0603551d200455 0701-135436.52 [COM3][RECV] 6a8cb9ed85b587c6a0a1f6bf800f26d37e87c6f8f16576b54658f996f8382b421385cc5ead16a98235dc66798b9bd4b74c0f35a9c478e35076db2dedd9a6aa394161010203010001a382019930820195300e0603551d0f0101ff04040302010630120603551d130101ff040830060101ff020100305c0603551d200455 ..total bytes entered so far is 3250/6148 Enter Cert Chain data: 0701-135436.53 [COM3][CMD] 30533051060a2b060104010915010e003043304106082b060105050702011635687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f706f6c69636965732f696e6465782e68746d6c301d0603551d0e04160414cae4c06df8f48f9614abc785b257ac23a915ea9130480603551d1f0441 0701-135436.68 [COM3][RECV] 30533051060a2b060104010915010e003043304106082b060105050702011635687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f706f6c69636965732f696e6465782e68746d6c301d0603551d0e04160414cae4c06df8f48f9614abc785b257ac23a915ea9130480603551d1f0441 ..total bytes entered so far is 3500/6148 Enter Cert Chain data: 0701-135436.68 [COM3][CMD] 303f303da03ba0398637687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f63726c2f6163743261646d696e726f6f742e63726c30818606082b06010505070101047a3078304506082b060105050730028639687474703a2f2f7777772e636973636f2e636f6d2f7365637572697479 0701-135436.82 [COM3][RECV] 303f303da03ba0398637687474703a2f2f7777772e636973636f2e636f6d2f73656375726974792f706b692f63726c2f6163743261646d696e726f6f742e63726c30818606082b06010505070101047a3078304506082b060105050730028639687474703a2f2f7777772e636973636f2e636f6d2f7365637572697479 ..total bytes entered so far is 3750/6148 Enter Cert Chain data: 0701-135436.82 [COM3][CMD] 2f706b692f63657274732f6163743261646d696e726f6f742e636572302f06082b06010505073001862368747470733a2f2f746f6f6c732e636973636f2e636f6d2f706b696376732f6f637370301f0603551d23041830168014b633bbfe68e754e41226048cfe7a8d24797f949c300d06092a864886f70d01010b0500 0701-135436.96 [COM3][RECV] 2f706b692f63657274732f6163743261646d696e726f6f742e636572302f06082b06010505073001862368747470733a2f2f746f6f6c732e636973636f2e636f6d2f706b696376732f6f637370301f0603551d23041830168014b633bbfe68e754e41226048cfe7a8d24797f949c300d06092a864886f70d01010b0500 ..total bytes entered so far is 4000/6148 Enter Cert Chain data: 0701-135436.96 [COM3][CMD] 03820101008c64e2f402104f5bab3c23c82e0238a629f30c6f1d532ed3f93980653833dacdf803ea6e09d68dab92d5c03dc45db3c07811117b9091316a53f2dae459115a668e68313b5b69561a6f12d10006c6512129df5cb15ae5e8c754a3fb7d8fed54e4b7f641319100ffd4d1a5d7b24a1f7c63c9f8a73e3351cad9 0701-135437.10 [COM3][RECV] 03820101008c64e2f402104f5bab3c23c82e0238a629f30c6f1d532ed3f93980653833dacdf803ea6e09d68dab92d5c03dc45db3c07811117b9091316a53f2dae459115a668e68313b5b69561a6f12d10006c6512129df5cb15ae5e8c754a3fb7d8fed54e4b7f641319100ffd4d1a5d7b24a1f7c63c9f8a73e3351cad9 ..total bytes entered so far is 4250/6148 Enter Cert Chain data: 0701-135437.10 [COM3][CMD] 7e987f408d72abdda16d3bb55a3f090e6a0c189223e8187872e8a6eb743a2cdfd5bff5d4b8f786ff1ad53f38b907d1183be37f185222a3cea9e75aa445ce0b6dac384d7a81d8e577e6675d5e24a0001e353a80362e68e441dbba7601bfe189f80936525ed22f10217abca22e7853e1cb621593c3aba26a8dff1597ddc0 0701-135437.24 [COM3][RECV] 7e987f408d72abdda16d3bb55a3f090e6a0c189223e8187872e8a6eb743a2cdfd5bff5d4b8f786ff1ad53f38b907d1183be37f185222a3cea9e75aa445ce0b6dac384d7a81d8e577e6675d5e24a0001e353a80362e68e441dbba7601bfe189f80936525ed22f10217abca22e7853e1cb621593c3aba26a8dff1597ddc0 ..total bytes entered so far is 4500/6148 Enter Cert Chain data: 0701-135437.24 [COM3][CMD] 10d9194667e4203d860a9c3082032930820211a003020102020101300d06092a864886f70d01010b05003036310e300c060355040a1305436973636f312430220603550403131b414354322041646d696e69737472617469766520526f6f74204341301e170d3132303231373138343834335a170d3432303231373138 0701-135437.38 [COM3][RECV] 10d9194667e4203d860a9c3082032930820211a003020102020101300d06092a864886f70d01010b05003036310e300c060355040a1305436973636f312430220603550403131b414354322041646d696e69737472617469766520526f6f74204341301e170d3132303231373138343834335a170d3432303231373138 ..total bytes entered so far is 4750/6148 Enter Cert Chain data: 0701-135437.38 [COM3][CMD] 343834335a3036310e300c060355040a1305436973636f312430220603550403131b414354322041646d696e69737472617469766520526f6f7420434130820122300d06092a864886f70d01010105000382010f003082010a0282010100dd5df2afaad9a713fba12c8c7201d7d255f4ccee2d4bc0431b31e8e431a880 0701-135437.52 [COM3][RECV] 343834335a3036310e300c060355040a1305436973636f312430220603550403131b414354322041646d696e69737472617469766520526f6f7420434130820122300d06092a864886f70d01010105000382010f003082010a0282010100dd5df2afaad9a713fba12c8c7201d7d255f4ccee2d4bc0431b31e8e431a880 ..total bytes entered so far is 5000/6148 Enter Cert Chain data: 0701-135437.52 [COM3][CMD] 9f8ed8762a874b91ec7b86b3cd13c1ead5c8bcc4bf18782c344ceedafbcb943576a24b38ddbaa8432aaa62461927aa1e2d54715b4428fb3765d551b2ab19a49ea12b4f4deccca5f65bbcd93ac092ffb36b707c71112d01977517c638c216f359fd9dbac64a82fee0e9d6e1b63b0023fac19f9de8f8c6dfea1bc0c9b76b 0701-135437.66 [COM3][RECV] 9f8ed8762a874b91ec7b86b3cd13c1ead5c8bcc4bf18782c344ceedafbcb943576a24b38ddbaa8432aaa62461927aa1e2d54715b4428fb3765d551b2ab19a49ea12b4f4deccca5f65bbcd93ac092ffb36b707c71112d01977517c638c216f359fd9dbac64a82fee0e9d6e1b63b0023fac19f9de8f8c6dfea1bc0c9b76b ..total bytes entered so far is 5250/6148 Enter Cert Chain data: 0701-135437.66 [COM3][CMD] b29ffb595af6074a98c7e6fcbe3d3064125fd5c862a9ac9b2a067db0322d3d285367f8704ce4caff060c2a0c3b6cac238a7903b56317590f4eff38ee7fd288098c9f81f3092b71b9b7564fac64415d165587c475ce2f815798acf34426171e42a45a90410203010001a3423040300e0603551d0f0101ff040403020106 0701-135437.80 [COM3][RECV] b29ffb595af6074a98c7e6fcbe3d3064125fd5c862a9ac9b2a067db0322d3d285367f8704ce4caff060c2a0c3b6cac238a7903b56317590f4eff38ee7fd288098c9f81f3092b71b9b7564fac64415d165587c475ce2f815798acf34426171e42a45a90410203010001a3423040300e0603551d0f0101ff040403020106 ..total bytes entered so far is 5500/6148 Enter Cert Chain data: 0701-135437.80 [COM3][CMD] 300f0603551d130101ff040530030101ff301d0603551d0e04160414b633bbfe68e754e41226048cfe7a8d24797f949c300d06092a864886f70d01010b05000382010100034e018b23ab7b50d085e727959476551dca6cdf2034b48843b3e2d3cd87c521db33cf83303c789d349eebc236c9eb157ee00550197f385e70 0701-135437.94 [COM3][RECV] 300f0603551d130101ff040530030101ff301d0603551d0e04160414b633bbfe68e754e41226048cfe7a8d24797f949c300d06092a864886f70d01010b05000382010100034e018b23ab7b50d085e727959476551dca6cdf2034b48843b3e2d3cd87c521db33cf83303c789d349eebc236c9eb157ee00550197f385e70 ..total bytes entered so far is 5750/6148 Enter Cert Chain data: 0701-135437.94 [COM3][CMD] cd3a1711e6a21427bd3fa7f8f738172507daa74435ad5a44201431651a10c65a854cc859fb1f518d6b3b77426b715859da02865f43590c07f4014729f4e1cb521fb0506343c941618a9af6b6302217a7a4f0590ce66918ba906e320b4360516b88a744ed6930838e0b8df15d6b18d974629fe7a604e8a159000356aa5b 0701-135438.08 [COM3][RECV] cd3a1711e6a21427bd3fa7f8f738172507daa74435ad5a44201431651a10c65a854cc859fb1f518d6b3b77426b715859da02865f43590c07f4014729f4e1cb521fb0506343c941618a9af6b6302217a7a4f0590ce66918ba906e320b4360516b88a744ed6930838e0b8df15d6b18d974629fe7a604e8a159000356aa5b ..total bytes entered so far is 6000/6148 Enter Cert Chain data: 0701-135438.08 [COM3][CMD] e941b32fa2e84392545aebc16b56668fc3266c58f007baa096697f7f647ebe269b76b5a33bf1da5fff96b7018518e65d2d050350fb384601bbf27bf0c021e5ab6cffdeade7c623828b45 0701-135438.22 [COM3][RECV] e941b32fa2e84392545aebc16b56668fc3266c58f007baa096697f7f647ebe269b76b5a33bf1da5fff96b7018518e65d2d050350fb384601bbf27bf0c021e5ab6cffdeade7c623828b45 ..total bytes entered so far is 6148/6148 0701-135438.46 [COM3][RECV] Challenge: 391c651a8820734a8b6067164920bfe6ec685fd94227d879e526e67b58ddec23 Enter Response Nonce: | 3082045930820341a00 7bf0c021e5ab6cffdeade7c623828b45 | Enter Response Nonce: 391c651a8820734a8b6067164920bfe6ec685fd94227d879e526e67b58ddec23 |
| Test Items Command-Diag station | CheckDiagFW | cat /proc/sys/kernel/version | mD67415BC4B0E:/# cat /proc/sys/kernel/version #1 SMP Fri Jul 8 14:52:10 PDT 2022 | cat /proc/sys/kernel/version | #1 SMP Fri Jul 8 14:52:10 PDT 2022 |
| Test Items Command-BB station | check\_eMMC\_info | diag storage emmc info test | SKU=X1\_24P HwRev=10.04 Display eMMC chipset infomation: ======================================================== type: 'MMC' manufacturer: 'Toshiba' '' product: '008GB0' 0.964109625 serial: 0x00000000 manfacturing date: 2001 sep Max Enhanced Area Size [MAX\_ENH\_SIZE\_MULT]: 0x0003a4 Enhanced User Data Area Size [ENH\_SIZE\_MULT]: 0x000000 ======================================================== vendor=Toshiba (SPEC: Toshiba,Toshiba) product=008GB0 (SPEC: 008GB0,008GB1) max\_enh\_size=0x0003a4 (SPEC: 0x0003a4,0x0003a4) enh\_size=0x000000 (SPEC: 0x000000,0x000000) Result: PASS # | diag storage emmc info test | Result: PASS |
| Test Items Command-RF station | Remove i/o expander driver reload script | sed -i 's/\/etc\/i2c\_kmodule\/insert\_i2c\_kmodule.sh/#\/etc\/i2c\_kmodule\/insert\_i2c\_kmodule.sh/g' /usr/sbin/wncgps sync; sync; cat /usr/sbin/wncgps | grep "#/etc/i2c\_kmodule/insert\_i2c\_kmodule.sh" | root@R7AQ-C1:/# sed -i 's/\/etc\/i2c\_kmodule\/insert\_i2c\_kmodule.sh/#\/etc\/i2c\_kmodule\/insert\_i2c\_kmodule.sh/g' /usr/sbin/wncgps root@R7AQ-C1:/# sync; sync; root@R7AQ-C1:/# cat /usr/sbin/wncgps | grep "#/etc/i2c\_kmodule/insert\_i2c\_kmodule.sh" #/etc/i2c\_kmodule/insert\_i2c\_kmodule.sh > /dev/null 2>&1 #/etc/i2c\_kmodule/insert\_i2c\_kmodule.sh > /dev/null 2>&1 | sed -i 's/\/etc\/i2c\_kmodule\/insert\_i2c\_kmodule.sh/#\/etc\/i2c\_kmodule\/insert\_i2c\_kmodule.sh/g' /usr/sbin/wncgps sync; sync; cat /usr/sbin/wncgps | grep "#/etc/i2c\_kmodule/insert\_i2c\_kmodule.sh" | #/etc/i2c\_kmodule/insert\_i2c\_kmodule.sh > /dev/null 2>&1 #/etc/i2c\_kmodule/insert\_i2c\_kmodule.sh > /dev/null 2>&1 |
| Test Items Command-Final station | VerifySecurityConfig | securebootctl mfg –display | Secure Boot: enabled Password default storage: flash 16:00:00:00:03:7C:02:7D:2C:8A:AB:97:4C:00:00:00:00:00:03 28:00:00:00:11:3B:51:91:32:5F:E7:5A:5E:00:00:00:00:00:11 Arista certificate 3: No certificate is configured 28:00:00:00:10:3F:BA:D4:42:9C:84:ED:09:00:00:00:00:00:10 | securebootctl mfg –display | Secure Boot: enabled Password default storage: flash 16:00:00:00:03:7C:02:7D:2C:8A:AB:97:4C:00:00:00:00:00:03 Secure Boot: enabled Secure Boot: enabled Secure Boot: enabled Secure Boot: enabled Secure Boot: enabled |
| Test Items Command-BB station | Currnet/Power Monitor check 2 (0x41) | tecro 0 1 5 1 | 0x41 LTC9105 POWER\_MONITOR Test52 ~ V ~ 570 ~ W ~ 25.5 root@R7AQ-C1:/# tecro 0 1 5 1=> 0. Diagnostic Test=> 1. I2C Test=> 4. 0x41 LTC9105 POWER\_MONITOR Test=> 1. Display voltage/current/power53.560V0.324A17.353Wroot@R7AQ-C1:/# | tecro 0 1 5 1 | 0x41 LTC9105 POWER\_MONITOR Test52 ~ V ~ 570 ~ W ~ 25.5 |
| Test Items Command- FQC station | CheckTemperature | showpilot | %n@%m:%~%# showpilot \*\*\*\*\*\*\*\*\*\* /var/run/pilot \*\*\*\*\*\*\*\*\*\* PilotState=PILOT\_S\_FAULT SSMStatus=0x2A PilotLevel=0xA1 Temp=Output:21C, Input:21C, System:23C, Proc:30C FwRev=1.12 ACCFwRev=28 DevType=0x09 BootRev=0x04 SSMVer=0x0012 SSMCRC=0x41f6 CableCap=16A CableSenseFlag=0 PilotFault=BAD\_VOLTAGE\_ERR, EARTH\_FAULT %n@%m:%~%# |  |  |
| Test Items Command-RF station | Upgrade REL FW | flash\_image {image\_file} | 0701-134551.82 [COM3][CMD] flash\_image cm78-CCO-single\_05132024\_v2.img 0701-134551.94 [COM3][RECV] flash\_image cm78-CCO-single\_05132024\_v2.img MAC0 addr:c4:14:a2:fb:21:80 mdio\_register: non unique device name 'IPQ MDIO0' Error in allocating Mem ipq9574\_edma\_init failed : -1 eth\_init - Do ipq9574\_edma\_init() Usage: eth\_init Usage: eth\_init [nand] Phy ops not mapped Phy ops not mapped Phy ops not mapped Phy ops not mapped eth0 PHY4 up Speed :1000 Full duplex eth0 PHY5 up Speed :1000 Full duplex Using eth0 device TFTP from server 192.168.1.186; our IP address is 192.168.1.1 Filename 'cm78-CCO-single\_05132024\_v2.img.sig'. Load address: 0x50000000 Loading: \* 0701-134557.00 [COM3][RECV] T ##  1000 Bytes/s done Bytes transferred = 6142 (17fe hex) Signature returns 0 0701-134557.11 [COM3][RECV] Image signing verification success, continue to run...  MAC0 addr:c4:14:a2:fb:21:80 mdio\_register: non unique device name 'IPQ MDIO0' Error in allocating Mem ipq9574\_edma\_init failed : -1 eth\_init - Do ipq9574\_edma\_init() Usage: eth\_init Usage: eth\_init [nand] Phy ops not mapped Phy ops not mapped Phy ops not mapped Phy ops not mapped eth0 PHY4 up Speed :1000 Full duplex eth0 PHY5 up Speed :1000 Full duplex Using eth0 device TFTP from server 192.168.1.186; our IP address is 192.168.1.1 Filename 'cm78-CCO-single\_05132024\_v2.img'. Load address: 0x54000000 Loading: \*############################################ 0701-134557.24 [COM3][RECV] #####################  ############################################# (skip …) ###################  2.6 MiB/s done Bytes transferred = 720937112 (2af8a098 hex) 0701-135116.59 [COM3][RECV] ## Copying 'gpt\_qcn9224-f14a77086f0ca0b0cbe8f4c926fda694ec186717' subimage from FIT image at 54000000 ... crc32+ secure boot fuse is not enabled ## Copying 'sbl1-996bb920 0701-135116.71 [COM3][RECV] f19de5f1f3ddd0d59428006dbc039d87' subimage from FIT image at 54000000 ... crc32+ 0701-135116.84 [COM3][RECV] ## Copying 'bootconfig-f1050e638265203cd2a74f220c37aeaa88edfc7e' subimage from FIT image at 54000000 ... crc32+ ## Copying 'tz-15b847e536ef8cdee0f3dafe1fe4a9b79f0cbd2a' subimage from FIT image at 54000000 ... crc32 0701-135117.07 [COM3][RECV] + 0701-135117.20 [COM3][RECV] ## Copying 'devcfg-4a8ef5340b4d1029eddb0ffd325ff524bd1ec93d' subimage from FIT image at 54000000 ... crc32+ ## Copying 'apdp-b0f375af3331ee389bed9105a0a664c21b61f1e3' subimage from FIT image at 54000000 ... crc32+ 0701-135117.32 [COM3][RECV] ## Copying 'tme-d60ae6cb55ea3cbbd25852af0c5d2917dcc2dcd0' subimage from FIT image at 54000000 ... crc32+ ## Copying 'rpm-8e2bf4f19b8d18befc51f8935d470d50c0554564' subimage from FIT image at 54000000 ... crc32 0701-135117.45 [COM3][RECV] + ## Copying 'ddr-AP-AL02-C4\_1024M32\_DDR4-2fc070d74c90f384d131efa8701fd6dfd2399700' subimage from FIT image at 54000000 ... crc32+ ## Copying 'u-boot-46f04b6517e1341560c04eb2afdce737621a62e4' subimage from FIT image at 54000000 ... crc32 0701-135117.57 [COM3][RECV] + ## Copying 'sbl1\_1-996bb920f19de5f1f3ddd0d59428006dbc039d87' subimage from FIT image at 54000000 ... crc32 0701-135117.70 [COM3][RECV] + ## Copying 'bootconfig1-f1050e638265203cd2a74f220c37aeaa88edfc7e' subimage from FIT image at 54000000 ... crc32 0701-135117.82 [COM3][RECV] + ## Copying 'qsee\_1-15b847e536ef8cdee0f3dafe1fe4a9b79f0cbd2a' subimage from FIT image at 54000000 ... crc32 0701-135118.06 [COM3][RECV] + ## Copying 'devcfg\_1-4a8ef5340b4d1029eddb0ffd325ff524bd1ec93d' subimage from FIT image at 54000000 ... 0701-135118.18 [COM3][RECV] crc32+ ## Copying 'apdp\_1-b0f375af3331ee389bed9105a0a664c21b61f1e3' subimage from FIT image at 54000000 ... crc32+ ## Copying 'tme\_1-d60ae6cb55ea3cbbd25852af0c5d2917dcc2dcd0' subimage from FIT image at 54000000 ... crc32 0701-135118.31 [COM3][RECV] + ## Copying 'rpm\_1-8e2bf4f19b8d18befc51f8935d470d50c0554564' subimage from FIT image at 54000000 ... crc32+ ## Copying 'cdt\_1-2fc070d74c90f384d131efa8701fd6dfd2399700' subimage from FIT image at 54000000 ... 0701-135118.43 [COM3][RECV] crc32+ ## Copying 'appsbl\_1-46f04b6517e1341560c04eb2afdce737621a62e4' subimage from FIT image at 54000000 ... crc32+ 0701-135118.56 [COM3][RECV] ## Copying 'ethphyfw-607870a0c9b1e2a4259983e8c5b5e1b623cbc9fe' subimage from FIT image at 54000000 ... crc32+ ## Copying 'meraki\_a-f57eb1c48fceaf667550a48aad9e1646d46dbcda' subimage from FIT image at 54000000 ... 0701-135118.68 [COM3][RECV] crc32 0701-135124.49 [COM3][RECV] + 0701-135126.70 [COM3][RECV] ## Copying 'meraki\_b-f57eb1c48fceaf667550a48aad9e1646d46dbcda' subimage from FIT image at 54000000 ... crc32 0701-135132.62 [COM3][RECV] + 0701-135134.84 [COM3][RECV] ## Copying 'en\_part1-e9f0208b455147966f554cc8ee6950f8aecb4e59' subimage from FIT image at 54000000 ... crc32 0701-135203.67 [COM3][RECV] + 0701-135213.44 [COM3][RECV] ## Copying 'en\_part2-e9f0208b455147966f554cc8ee6950f8aecb4e59' subimage from FIT image at 54000000 ... 0701-135213.56 [COM3][RECV] crc32 0701-135242.41 [COM3][RECV] + 0701-135252.16 [COM3][RECV] ## Copying 'en\_storage-02420f9e5e2f4d88b377a3b6df4a0718ddcb3520' subimage from FIT image at 54000000 ... crc32+ 0701-135256.46 [COM3][RECV] ## Copying 'cisco\_misc-c0a716be672f0044fc7795591284f86d4edf9968' subimage from FIT image at 54000000 ... crc32 0701-135325.37 [COM3][RECV] + 0701-135334.93 [COM3][RECV] ## Copying 'gptbackup\_qcn9224-0fb7043ace1b94b1b3262da8241edb85af7d7a90' subimage from FIT image at 54000000 ... crc32+ Adding backup GPT... 0701-135335.06 [COM3][RECV] DONE IPQ9574# | flash\_image {image\_file} | IPQ9574# Copying 'gpt\_qcn9224 Copying 'sbl1-996bb920 Copying 'bootconfig Copying 'tz Copying 'devcfg Copying 'apdp Copying 'tme Copying 'rpm Copying 'ddr-AP-AL02-C4\_1024M32\_DDR4 Copying 'u-boot Copying 'sbl1\_1 Copying 'bootconfig1 Copying 'qsee\_1 Copying 'devcfg\_1 Copying 'apdp\_1 Copying 'tme\_1 IPQ9574# |
| Test Items Command-BB station | USBBus | Logout lsusb | Command> logout Logged out, Good-Bye ! R6AQ-C4:/# lsusb Bus 001 Device 002: ID 090c:1000 must be seen Bus 001 Device 001: ID 1d6b:0002 must be seen Bus 002 Device 001: ID 1d6b:0003 must be seen Bus 003 Device 001: ID 1d6b:0002 must be seen Bus 004 Device 001: ID 1d6b:0003 must be seen R6AQ-C4:/# | Logout lsusb | lsusb must be seen must be seen must be seen must be seen must be seen must be seen must be seen must be seen logout Bus 001 Device 002 Bus 001 Device 001 Bus 002 Device 001 Bus 003 Device 001 Bus 004 Device 001 |
| Test Items Command-RF station | Upgrade REL FW | xyzzy | IPQ9574# | xyzzy | IPQ9574# IPQ9574# |
| Test Items Command-RF station | Unlock Bootloader | (command to DUT) 3074 | 0701-135434.33 [COM3][CMD] 3074 0701-135434.47 [COM3][RECV] 3074 Certificate Chain Length: 3074 Enter Cert Chain data: | 3074 | Enter Cert Chain data: |
| Test Items Command- FQC station | RemoveDUTNetwork | MR\_CCT.exe -r “SN” | D:\Projects\Meraki\CM66-VE\Other\MR\_CCT>MR\_CCT.exe -r Q5AF-GRFA-ZPDZ \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \* Copyright (c) 2022, Cisco Systems, Inc. \* \* For use by WNC Taiwan ONLY \* \* Company Confidential \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Cisco Meraki Cloud Connectivity Test Version 1.0 Removing Device with Serial Q5AF-GRFA-ZPDZ from the CCT Network... Q5AF-GRFA-ZPDZ has been removed [SUCCESS] DUT is not in the CCT Network D:\Projects\Meraki\CM66-VE\Other\MR\_CCT> | MR\_CCT.exe -r “SN” | [SUCCESS] DUT is not in the CCT Network |
| Test Items Command-BB station | CheckInfo | Press “ESC” to stop autoboot | U-Boot SPL 2019.07 (Dec 30 2022 - 10:26:45 +0800) …(Skip other bring-up message)… U-Boot 2019.07 AP615 v1.0.0 (Dec 30 2022 - 10:26:39 +0800), Build: 5.04L.02@338852 Model: Broadcom BCM96756 DRAM: 2 GiB max supported leds 32[32]  Parallel CLED interface found BCA CLED Controller initialized Take PMC out of reset waiting for PMC finish booting pmc\_init:PMC using DQM mode Chip ID: BCM47623\_A1 $Uboot: 5.04L.02@338852 $ Failed to register rst\_to\_dflt action rc -19 WDT: Started with servicing (80s timeout) NAND: 0 MiB MMC: sdhci: 0 Loading Environment from BOOT\_MAGIC... ENV\_BOOT\_MAGIC\_LOAD found magic at 40000 good crc resize from 16384 to 8192 OK In: serial0 Out: serial0 Err: serial0 Model: Broadcom BCM96756 Board is non secure Now we are in UBOOT proper HTTPD: netmask not defined boot\_device is EMMC Net: switch set mdio\_base 804805c0 sf2 phy\_base 8 phy power on workaround timeout 25000  eth switch found, should have been probed name sf2@80400000 driver name brcm,ethsw Initalizing switch low level hardware Software Resetting Switch ... Done.  Done Disable Switch All MAC port Rx/Tx eth0: systemport@0x80490000 Start to initialize the GPIO for AP615 ... Done! Power: DC POR: System soft reset Hit ESC key to stop autoboot: 0  > | Press “ESC” to stop autoboot | AP615 v1.0.0 (Dec 30 2022 - 10:26:39 +0800) DRAM: 2 GiB Chip ID: BCM47623\_A1 Power: DC Chip ID: BCM47623\_A1 DRAM: 2 GiB Power: DC Power: DC Power: DC Power: DC Power: DC > |
| Test Items Command-BB station | I2C\_LED\_Blue | mfg led i2cled blue 255 | Command> mfg led i2cled blue 255 Command> |  |  |
| Test Items Command-BB station | I2C Bus Check | i2cdetect -r -y 6 | root@R7AQ-C1:/# i2cdetect -r -y 6 0 1 2 3 4 5 6 7 8 9 a b c d e f00: -- -- -- -- -- -- -- -- -- -- -- -- --10: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --20: -- -- UU -- -- -- -- -- -- -- -- -- -- -- UU --30: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --40: 40 41 -- -- -- -- -- -- -- -- -- -- -- -- -- --50: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --60: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --70: -- UU -- -- -- -- -- --root@R7AQ-C1:/# | i2cdetect -r -y 6 | 20: -- -- UU -- -- -- -- -- -- -- -- -- -- -- UU -- |
| Test Items Command-BB station | Upgrade WNC FW to eMMC flash | run nas | done (total:18) R7AQ-C1# run nas ipq9574\_eth\_halt: done Phy ops not mapped Phy ops not mapped Phy ops not mapped Phy ops not mapped eth0 PHY4 up Speed :100 Full duplex eth0 PHY5 up Speed :100 Full duplex ipq9574\_eth\_init: done Using eth0 device TFTP from server 192.168.1.254; our IP address is 192.168.1.1 Filename 'emmc-ipq9574\_64-single.img'.  The message must be seen Load address: 0x44000000 Loading: \* Got TFTP\_OACK: TFTP remote port: changes from 69 to 49696 #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  #################################################################  Skip…  #################################################################  #################################################################  ######################################################  2.4 MiB/s done Bytes transferred = 51436432 (310db90 hex) ipq9574\_eth\_halt: done ## Executing script at 44000000 crc32+ soc\_hw\_version : unknown, skipping validation machid : Validation success Flashing gpt\_qcn9224: [ done ] Flashing sbl1: [ done ] Flashing bootconfig: [ done ] Flashing bootconfig1: [ done ] Flashing tz: [ done ] Flashing devcfg: [ done ] Flashing apdp: [ done ] Flashing tme: [ done ] Flashing rpm: [ done ] Flashing ddr-AP-AL02-C4\_1024M32\_DDR4: [ done ] Flashing u-boot: [ done ] Flashing reserved: [ done ] Flashing ethphyfw: [ done ] Flashing wifi\_fw\_ipq9574\_qcn9000\_qcn9224\_v2\_dualmac: [ done ] Flashing hlos: [ done ] Flashing rootfs: [ done ] Flashing ethphy\_mv\_fw: [ done ] Flashing gptbackup\_qcn9224: [ done ] R7AQ-C1# | run nas | done (total:18) done done done done done done done done done done done done done done done done done done done done done |
| Test Items Command-BB station | CheckPCIE | mfg i2c\_temp | Command> mfg i2c\_temp TMP1075 48: Local = 39.5625 value must be seen TMP1075 49: Local = 33.5625 value must be seen | mfg i2c\_temp | 39.5625 33.5625 |
| Test Items Command- FQC station | EnterKernel | Admin Config sudo su config | [ OK ] Started ChargePoint BLE Service. admin Password:config admin@kcb472719:~% admin@kcb472719:~% @kcb472719:~% sudo su Password:config %n@%m:%~%# %n@%m:%~%# | Admin Config sudo su config | admin sudo su |
| Test Items Command-Final station | ShowHardwareEeprom | show hardware eeprom | DataFormat: 0003 PCA:  SerialNumber: WTW23070247 KVN:  SKU: ZTX-7250S-16S HwApi: 01.00 SID: IndependenceRuby2 MacAddrBase: ec8a.4804.ed9d HwRev: 11.03 HwEpoch: 01.00 Deviation:  FdlVariables:  MfgTime: 20200101000000 MfgTime2: 20231123111220 ASY: ASY083160101 Crc: 9428D78E CpuPCA:  CpuSerialNumber:  CpuKVN:  CpuSKU:  CpuSID:  CpuHwApi:  CpuFdlVariables:  CpuMfgTime:  ZtpToken:  Certificate:  Signature:  SignatureList: HwEpoch, SerialNumber Prototype: true Other: | show hardware eeprom | DataFormat: 0003 PCA: SerialNumber: WTW23070247 KVN: SKU: ZTX-7250S-16S HwApi: 01.00 SID: IndependenceRuby2 MacAddrBase: ec8a.4804.ed9d HwRev: 11.03 HwEpoch: 01.00 Deviation: FdlVariables: MfgTime: 20200101000000 MfgTime2: 20231123111220 ASY: ASY083160101 Crc: 9428D78E CpuPCA: CpuSerialNumber: CpuMfgTime: CpuMfgTime: SignatureList: HwEpoch, SerialNumber SignatureList: HwEpoch, SerialNumber SignatureList: HwEpoch, SerialNumber CpuMfgTime: MfgTime2: 20231123111220 Other: KVN: KVN: |
| Test Items Command-BB station | BMP580 Sensor Check | tecro 0 1 6 3 | 0x46 BMP580 BAROMETER Test Pressure average: (should not be 0) root@R7AQ-C1:/# tecro 0 1 6 3=> 0. Diagnostic Test=> 1. I2C Test=> 6. 0x46 BMP580 BAROMETER Test=> 3. BMP580 Sensor Checkbus=0,addr=46I2C Interfacechip\_id=0x50Pressure[0]: 98626.296875 Pa Temperature[0]: 28.913345 deg CPressure[1]: 98626.546875 Pa Temperature[1]: 28.890884 deg CPressure[2]: 98627.031250 Pa Temperature[2]: 28.881683 deg CPressure[3]: 98627.640625 Pa Temperature[3]: 28.875977 deg CPressure[4]: 98627.859375 Pa Temperature[4]: 28.873352 deg CPressure[5]: 98627.328125 Pa Temperature[5]: 28.866287 deg CPressure[6]: 98627.453125 Pa Temperature[6]: 28.858063 deg CPressure[7]: 98626.765625 Pa Temperature[7]: 28.860092 deg CPressure[8]: 98625.953125 Pa Temperature[8]: 28.864441 deg CPressure[9]: 98625.890625 Pa Temperature[9]: 28.833069 deg CPressure[10]: 98625.515625 Pa Temperature[10]: 28.825516 deg CPressure[11]: 98626.781250 Pa Temperature[11]: 28.839661 deg CPressure[12]: 98625.828125 Pa Temperature[12]: 28.843048 deg CPressure[13]: 98625.406250 Pa Temperature[13]: 28.843918 deg CPressure[14]: 98625.500000 Pa Temperature[14]: 28.867065 deg CPressure average: 98548.828125 PaTemperature integer: 28 deg CI2C Interfacechip\_id=0x50Write temp value:28,0x1croot@R7AQ-C1:/# | tecro 0 1 6 3 | 0x46 BMP580 BAROMETER Test Pressure average: (should not be 0) 0x46 BMP580 BAROMETER Test Pressure average: 98548.828125 Pa |
|  | Check Router FW information | curl curl -v --insecure --data-urlencode key@plt\_client.key https://192.168.0.1/secured\_plt | Please check the board information as below list. 1.) : WB2043RA074892 2.) : 7.23.70 3.) : 1 4.) : 1 5.) : 00:30:44:23:f0:8a 6.) : On 7.) : r1900-08a 8.) : r1900-08a-5g 9.) 03.09.11.00\_ATT 10.) 03.09.11.00\_BELL 11.) 03.10.07.00\_GENERIC 12.) 03.09.06.00\_TELSTRA 13.) 03.10.07.00\_TMO 14.) 03.09.11.00\_VERIZON |  |  |
| Test Items Command-Diag station | UpgradeBLE | cd /etc/ble ls -al silabs-bootloader-0.4-1.12.15.gbl devmem 0x1010004 w 0x0 devmem 0x1015004 w 0x0 sleep 1 devmem 0x1010004 w 0x3 silabs\_ble -u 0322b\_BLE\_PA\_curve\_0.5dBm.gbl | R6AQ-C4:/#cd /etc/ble R6AQ-C4:/etc/ble# ls -al silabs-bootloader-0.4-1.12.15.gbl -rwxr-xr-x 1 root root 15940 Mar 15 01:41 silabs-bootloader-0.4-1.12.15.gbl silabs-bootloader-0.4-1.12.15.gbl must be see file exitst and size is correct R6AQ-C4:/etc/ble#devmem 0x1010004 w 0x0 R6AQ-C4:/etc/ble#devmem 0x1015004 w 0x0 R6AQ-C4:/etc/ble#sleep 1 R6AQ-C4:/etc/ble#devmem 0x1010004 w 0x3 R6AQ-C4:/etc/ble#silabs\_ble -u 0322b\_BLE\_PA\_curve\_0.5dBm.gbl silabs\_ble: Bytes to send:212308 silabs\_ble: Syncing silabs\_ble: . silabs\_ble: . silabs\_ble: DFU OK This message will appear if it is already a DFU BLE bootloader Bootloader version: 17563663 (0x10c000f) DFU packet size:212308 99% wait for FW upgrade finish must be seen | cd /etc/ble ls -al silabs-bootloader-0.4-1.12.15.gbl devmem 0x1010004 w 0x0 devmem 0x1015004 w 0x0 sleep 1 devmem 0x1010004 w 0x3 silabs\_ble -u 0322b\_BLE\_PA\_curve\_0.5dBm.gbl | Bootloader version: 17563663 (0x10c000f) 15940 cd /etc/ble devmem 0x1010004 w 0x3 15940 |
| Test Items Command- FQC station | Charge\_Test | sed -i "s/InstallationOverCurrentLevel.\*/InstallationOverCurrentLevel=80/" /data/etc/coul/evse.conf sed -i "s/PilotOverCurrentLevel.\*/PilotOverCurrentLevel=50/" /data/etc/coul/evse.conf cat /data/etc/coul/evse.conf reboot | %n@%m:%~%# sed -i "s/InstallationOverCurrentLevel.\*/InstallationOverCurrentLeve l=80/" /data/etc/coul/evse.conf %n@%m:%~%# sed -i "s/PilotOverCurrentLevel.\*/PilotOverCurrentLevel=50/" /data/et c/coul/evse.conf %n@%m:%~%# cat /data/etc/coul/evse.conf version=1 # The values are in Amperes # This field indicates the overcurrent limit when Panda unit is hardwired. # The value of '0' indicates it is not set i.e. in that case we go with the # input and output cable sense from host pilot. The default value is 0. # This value will be updated when the installer/owner sets this value from # Mobile App during installation. Valid values are 0, 20, 40. InstallationOverCurrentLevel=80 # This field is based on input and output cable sensed by AC Board and # reported by host pilot. The default value is 20. When host pilot reads # the overcurrent value, it reports it to other apps, and this value is # updated at that time. Valid values are 20, 40. PilotOverCurrentLevel=50 %n@%m:%~%# %n@%m:%~%#reboot %n@%m:%~%# | sed -i "s/InstallationOverCurrentLevel.\*/InstallationOverCurrentLevel=80/" /data/etc/coul/evse.conf sed -i "s/PilotOverCurrentLevel.\*/PilotOverCurrentLevel=50/" /data/etc/coul/evse.conf | InstallationOverCurrentLevel=80 PilotOverCurrentLevel=50 |
| Test Items Command- FQC station | EnterDiagUboot | xyzzy | U-Boot 2018.01-DEVEL-g46a0983978 (Jun 16 2022 - 13:11:09 -0700) DRAM: 2 GiB Setting bus to 0 Valid chip addresses: 56 NS boot select: 0 … Out: serial@78B3000 Err: serial@78B3000 Device Tree: QCA, IPQ807x-CM66 machid: 8010001 Net: No ethernet found. Autoboot in 5 seconds Press “xyzzy” to enter to u-boot IPQ807X# | xyzzy | Autoboot in 5 seconds U-Boot 2018.01-DEVEL-g46a0983978 |