



Embedded QA BAT Test Report

Project Name: SD-8686-FEDORA26FC6-SYSKT

Release version & date: 9.70.3.p24-26409.P45-GPL / Feb. 28, 08

Test date: Mar. 3, 08

Reviewed by:

Test bed information:

Unit Under Testing (UUT): SD-8686

MAC: 00:50:43:29:24:27

Chipset: 8686 RF: 8686

Test bed: BULVERDE kernel 2.6.

AP: Cisco 1231G, Cisco 1230B

Station: Buffalo WLI-CB-G54S

Supplicant: 0.4.7-MSI-1

Throughput utility: Iperf

Test environment: Shield Room.

Issues summary:

| Bug# | Description |
|------|-------------|
| | |

Fixed issues:

| Bug # | Description | Test result |
|-------|-------------|-------------|
| | | |
| | | |
| | | |

New features:

| Name | Description | Test result |
|------|-------------|-------------|
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| | | |

Basic function test

| | | |
|-----------------|----------------|------|
| Release version | Match release | Pass |
| Install | eth1 displayed | Pass |
| Scan | 20+ | Pass |

Infra mode:

| A band WPA-PSK test (If a band is unavailable, test it in g band) | | |
|---|----------------|---------------|
| Item | Pass criteria | Test result |
| Association (ap: beacon interval=250ms) | Ping pass | Pass |
| Re-association | Ping pass | Pass |
| TCP throughput | 10Mbps | 18.5/17.1 |
| UDP throughput | 10Mbps | 24.4/21.9 |
| PS TCP throughput | 10Mbps | 18.5/17.2 |
| Defrag TCP rx | 5Mbps | Pass(8.25) |
| G band security off test (If g band is unavailable, test it in b band) | | |
| Association (ap: Hidden SSID) | Ping pass | Pass |
| Re-association | Ping pass | Pass |
| TCP throughput | 8Mbps | 18.0/15.3 |
| UDP throughput | 8Mbps | 23.8/22.5 |
| Frag TCP tx | 5Mbps | Pass(14.4) |
| RTS | | Pass |
| Rate | | Pass |
| Wakeup DTIM count in PS on | | Pass |
| PS TCP throughput | 8Mbps | 17.5/15.8 |
| B band WEP test | | |
| Association | Open 64key | Pass |
| TCP throughput | 4Mbps | 6.40/6.15 |
| Association | Shared 128key | Pass |
| Ping 16000 Bytes | < 5% ping loss | Pass(0% loss) |

Ad-hoc mode:

| G band WEP test (If g band is unavailable, test it in b band) | | |
|--|-------|-----------|
| Creator | | Pass |
| TCP throughput | 8Mbps | 20.1/18.0 |
| UDP throughput | | 25.9/12.5 |
| B band security off test | | |
| Creator | | Pass |
| TCP throughput | 4Mbps | 5.93/5.73 |
| Joiner | | Pass |

Feature tests:

| | | | |
|--|--|--|------------------|
| Standard Feature Tests | Host Sleep (inc PS + Host Sleep) | | Pass |
| | WPA2, Infra Tx/Rx, PS Tx/Rx | | 19.8/17.8 |
| | Enhanced Subscribe Event (RSSI/SNR high/low, Transmit loss) | | Pass |
| | Number of probes | | Pass |
| | Local Listen Interval | | Pass |
| | Deep Sleep mode testing | | Pass |
| FP1 features | 11d Testing: Passive scan before asso, passive scan before join IBSS Validate country element in beacon | | Pass |
| | WMM Infra Tx/Rx, PS Tx/Rx | | 18.4/17.3 |
| | UAPSD | | Pass |
| | BackGround Scan (Deep Sleep) | | Pass |
| FP4 (v7) Features SD8388 & SD/GSPI 8686 b/g | AHPS | | Pass |
| | AES (API) | | Pass |
| | Inactivity time out | | Pass |
| | Enhanced BG scan | | Pass |
| | Proprietary PS mode testing | | Pass |
| FP4 Extended API test: (wlan config command test) | setuserscan getscantable | UUT should be able to scan the specified aps and get the result | Pass |
| | Setgenie | Verify assoc req by sniffer IE 221: Len=9; value=0x112233445566778899 | Pass |
| | setmrvtlv | Verify assoc req by sniffer IE 221: Len=10: value=00010203040506070809 | Pass |
| | getassocrsp | Verify the association response displayed by wlanconfig matches a sniffer capture | Pass |
| | reassociate | Verify reassociation to a second Cisco AP. Check sniffer output to ensure a reassociation req was generated. | N/A |
| FP4 (V8) | Power regrouping configure API | | Pass |
| | Iwpriv: get SNR | | Pass |



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|--|---|---|-------------|
| | Iwpriv: get rate RxPD | | Pass |
| | Iwpriv: get First TxRate | | Pass |
| | Enhanced subscribe event | | Pass |
| | Call Admission Control (CAC) | Downgrading and WMM information interpretation | Pass |
| | | Admission control and proper downgrading with admission control | Pass |
| | | Admission control on VO and VI | Pass |
| | Host Sleep in AHPS mode | | Pass |
| | ARP / IP filtering in Host Sleep mode - (1) | | Pass |
| | IBSS Coalescing | | Pass |