



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

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



	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