

Test Report

Date:2010-06-04

WAP100 Test

This document is applicable for WAP100

1. Test Item

- WAP100 point to point throughput test in 8.35km range.

2. Preparation

- WAP100(Access Point / 26dBm / 27dBi / 192.168.168.41)
- WAP100 (Client Station / 26dBm / 27dBi / 192.168.168.33)
- WAP100 (Client Station / 26dBm / 27dBi / 192.168.168.37)
- WAP100 (Client Station / 26dBm / 27dBi / 192.168.168.56)
- WAP100×4 (Firmware:2.06)
- PC×2 (WindowsXP SP2, Chariot / Endpoint 4.2)

3. Test Procedures

- Location:Jing Guang Hai Jing---Tang Lang Shan (8.35Km) ;
- Configuration:RF power -18dBm, Frequency - 5660Mhz, RF bandwidth - 40MHz, modulation - Auto, Adjust the antenna to the best position;
- Long distance parameter:8500m;
- Start the Chariot to test the throughput;
- Change the STA device and test as above steps.

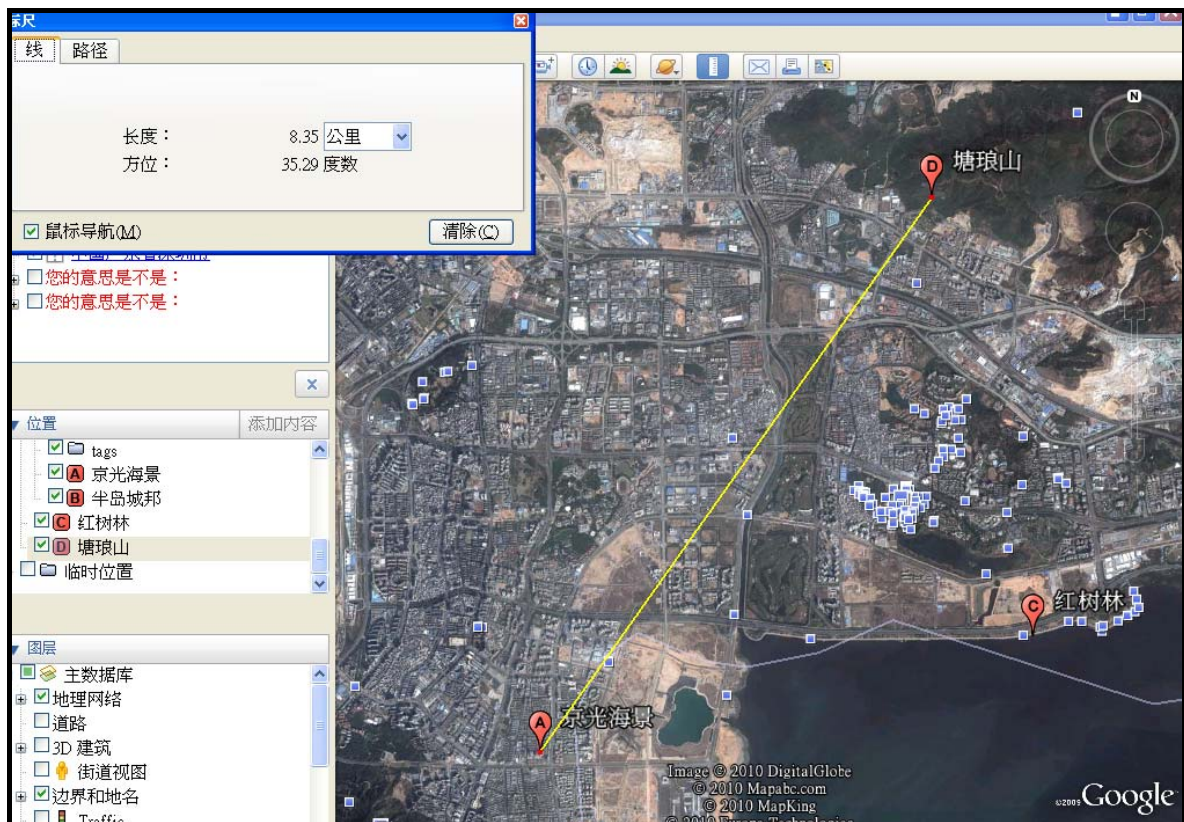


Diagram1 Location in the Google Earth

Device 1:192.168.168.33—192.168.168.41

Throughput

Group/ Pair	Average (Mbps)	Minimum (Mbps)	Maximum (Mbps)	Throughput 95% Confidence Interval	Measured Time (secs)	Relative Precision
All Pairs	105.021	5.298	22.222			
Pair 1	11.518	7.619	20.513	0.121	68.831	1.049
Pair 2	11.588	6.780	22.222	0.119	68.829	1.026
Pair 3	11.615	7.843	21.622	0.115	68.879	0.991
Pair 4	11.507	7.477	20.513	0.117	68.827	1.015
Pair 5	11.564	7.921	19.048	0.114	68.835	0.986
Pair 6	9.630	5.298	14.286	0.074	68.704	0.765
Pair 7	9.675	6.202	13.559	0.071	68.712	0.737
Pair 8	9.647	5.674	14.035	0.073	68.666	0.760
Pair 9	9.647	6.250	14.815	0.072	68.661	0.742
Pair 10	9.653	5.298	15.686	0.077	68.705	0.795
Totals:	105.021	5.298	22.222			

Throughput

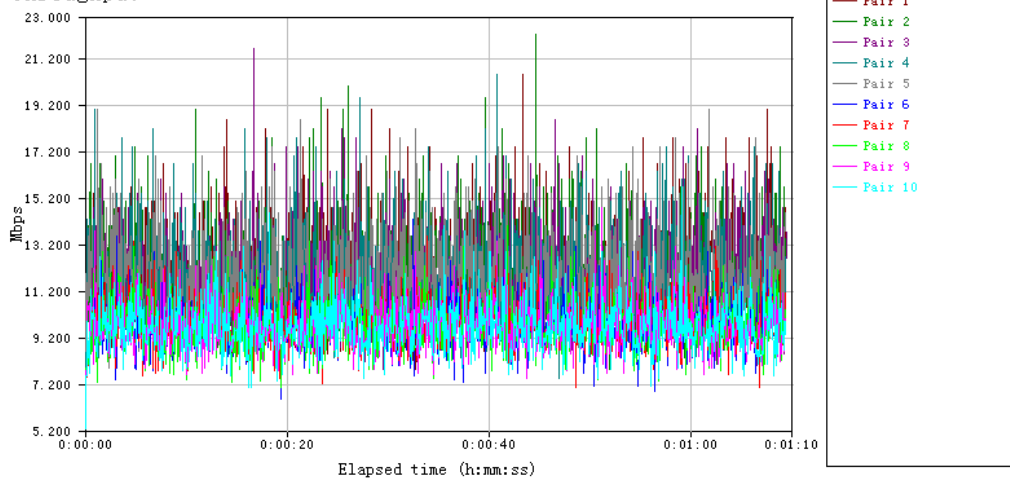


Diagram 2 Test Result in Chariot (192.168.168.33)

Device 2:192.168.168.37—192.168.168.41

Throughput

Group/ Pair	Average (Mbps)	Minimum (Mbps)	Maximum (Mbps)	Throughput 95% Confidence Interval	Measured Time (secs)	Relative Precision
All Pairs	96.419	3.687	23.530			
Pair 1	10.634	4.278	23.530	0.115	75.082	1.085
Pair 2	10.525	5.229	20.000	0.114	75.101	1.082
Pair 3	10.652	5.195	22.222	0.117	75.102	1.094
Pair 4	10.612	5.128	21.622	0.118	75.087	1.114
Pair 5	10.569	5.195	19.512	0.110	75.088	1.038
Pair 6	8.872	3.738	13.559	0.075	74.845	0.840
Pair 7	8.827	3.687	15.094	0.071	74.955	0.806
Pair 8	8.838	3.704	15.385	0.073	74.947	0.828
Pair 9	8.853	3.721	13.333	0.074	74.911	0.837
Pair 10	8.864	3.704	14.286	0.075	74.911	0.847
Totals:	96.419	3.687	23.530			

Throughput

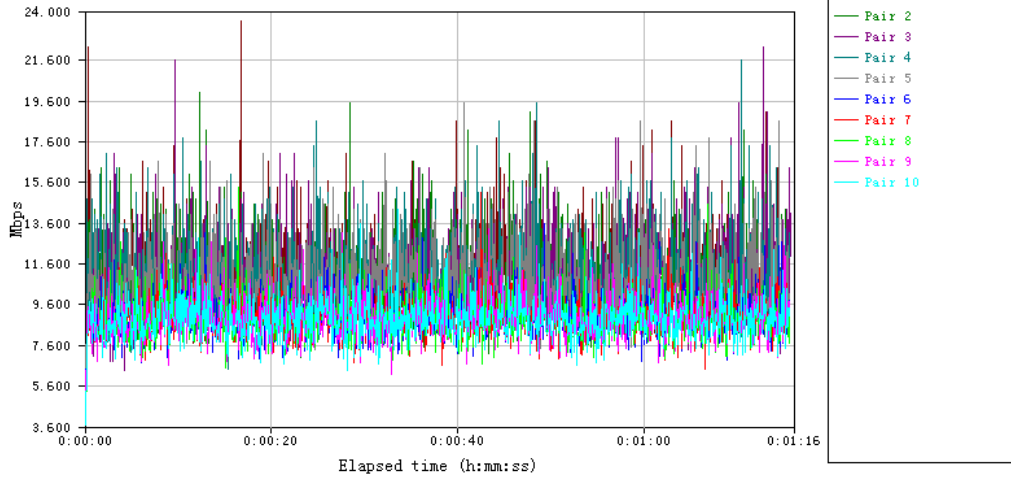


Diagram 3 Test Result in Chariot (192.168.168.37)

Device 3:192.168.168.56—192.168.168.41

Throughput

Group/ Pair	Average (Mbps)	Minimum (Mbps)	Maximum (Mbps)	Throughput 95% Confidence Interval	Measured Time (secs)	Relative Precision
All Pairs	94.558	0.799	27.586			
Pair 1	10.540	2.346	27.586	0.150	75.070	1.420
Pair 2	10.443	1.119	19.048	0.218	75.078	2.085
Pair 3	10.497	2.462	25.807	0.147	75.072	1.402
Pair 4	10.651	2.759	25.000	0.136	75.108	1.277
Pair 5	10.601	2.759	25.000	0.139	75.088	1.314
Pair 6	8.540	0.813	13.793	0.274	74.939	3.213
Pair 7	8.458	0.799	12.903	0.281	74.916	3.327
Pair 8	8.539	0.996	13.333	0.236	74.952	2.758
Pair 9	8.573	0.996	14.035	0.237	74.930	2.761
Pair 10	8.526	0.924	12.903	0.246	74.974	2.883
Totals:	94.558	0.799	27.586			

Throughput

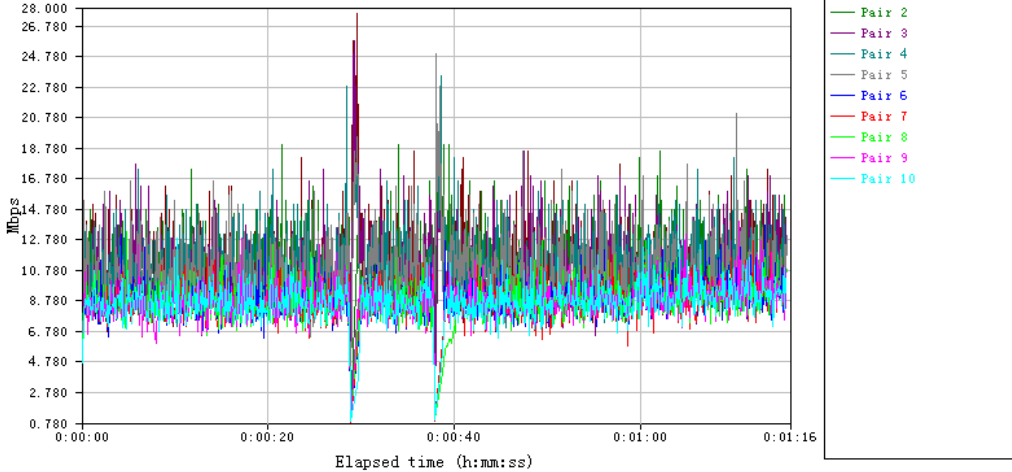


Diagram 4 Test Result in Chariot (192.168.168.56)

4. Test Record

WAP100 (26dBm) 8.35Km throughput test.

STA IP Address	AP Signal Strength	STA Signal Strength	Throughput(Mbps)
192.168.168.33	27	32	105.021
192.168.168.37	27	33	96.419
192.168.168.56	25	31	94.558

Table 1 Test Record

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