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| <input type="checkbox"/> Bug Report (BR) | <input type="checkbox"/> Training Material (TM) |
| <input checked="" type="checkbox"/> Other <u>Indoor Test Report MESH 4 Nodes Open Area 72 Hours (OT)</u> | |

Document ID.

OT-2012-11-1901

Subject

Indoor Test Report
of
APM-10xR

Revision History

Rev.	Date	Author	Reason for Changes
1.0	Nov. 19, 2012	Jacky Cheng	• Initial draft
			•
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1.0 Scope

1.1 Introduction

This file describes IO-Power APM-10xR Access Point (4 indoor MESH Nodes) 72 hour operation in open space.

1.2 Date/Time

- Date of Start : 2012/11/15 ~ 2012/11/18
- Date of End : AM 00:00 ~ PM 24:00

1.3 Location

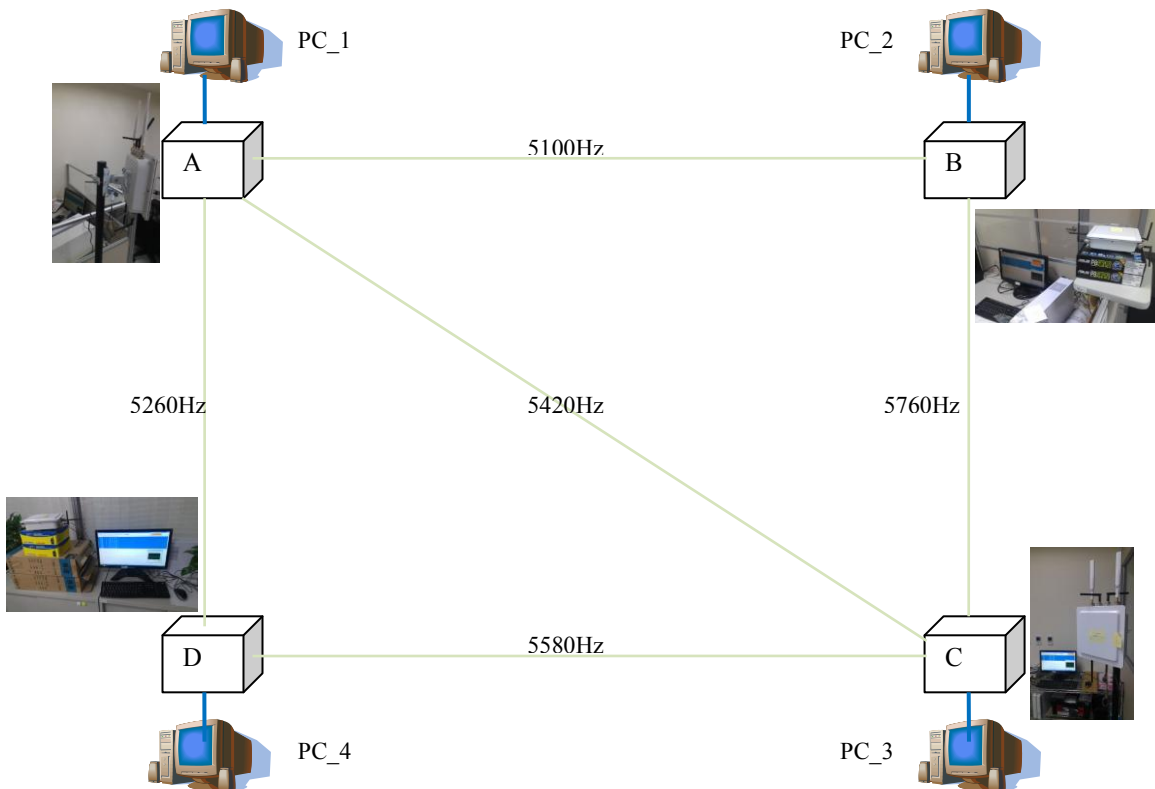
- IO-Power Office

1.4 Equipment

- Wireless Device : APM-103R x 4
- Antenna : Omni 2dBi x 20
- Computer : PC x 4
- Software : Windows XP SP3 - IxChariot 5.40
- APM-103R Firmware Version : 2.04

1.5 Topology

- AP-A ~ AP-D, MESH version, PC_1 ~ PC_4





2.0 Environment

In last page, each AP connects to another by 2 Omni 2dBi antennas(2x2 MIMO) , AP is set HT40 mode.

B is MG(MESH Gateway), others are MAP(MESH Access Point).

PCs are tested by IxChariot, operating TCP throughput test by High Performance Script. At the same time, there are total 120pairs sessions starting testing, allotment is as below:

PC_1 and PC_2 : 12T12R

PC_1 and PC_3 : 12T12R

PC_1 and PC_4 : 12T12R

PC_2 and PC_3 : 12T12R

PC_3 and PC_4 : 12T12R

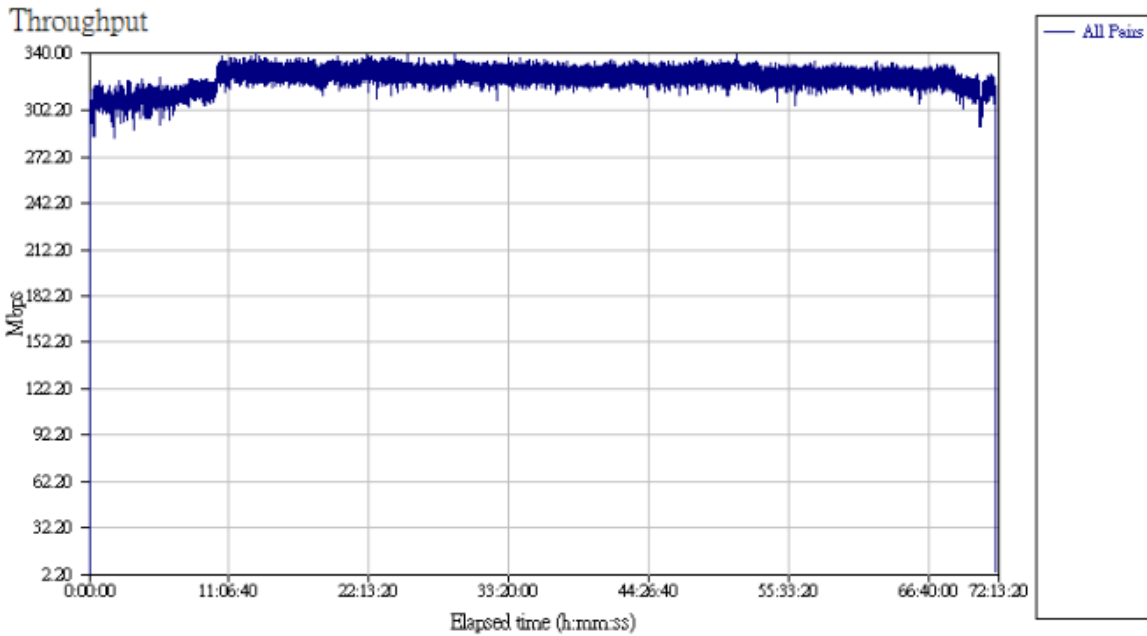
Testing time: 72 hours

3.0 Test Results

72hours test result	Total Throughput(Mbps)	Response Time	Transaction Rate
	322.763	32.751	4.035

Throughput

Pair 120	4.511	2.569	12.440	0.0
Totals:	322.763	1.101	14.215	

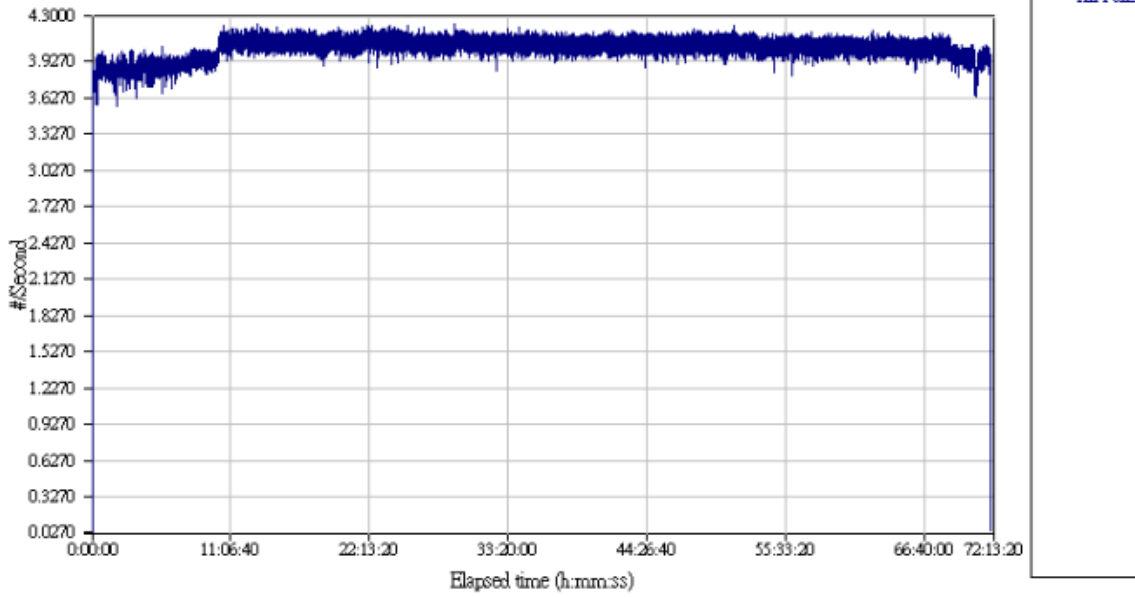




Transaction Rate

Pair 120	0.056	0.032	0.155
Totals:	4.035	0.014	0.178

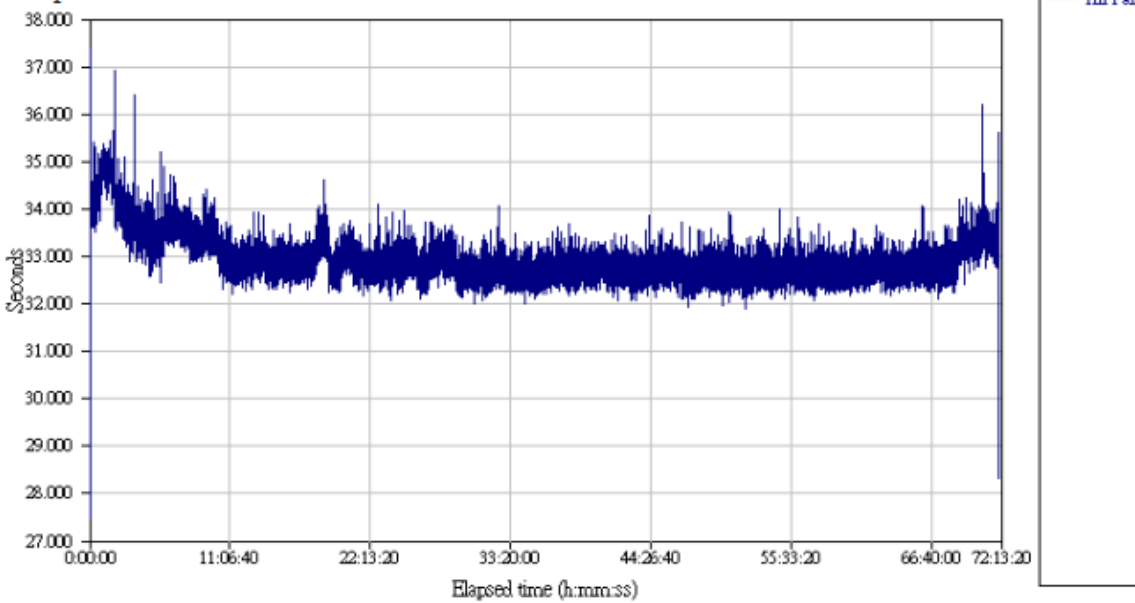
Transaction rate



Response Time

Pair 120	17.736	6.431	31.139
Totals:	32.751	5.628	72.640

Response time



Appendix I

None.