



Confidential

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| <input type="checkbox"/> Test Plan (TP) | <input type="checkbox"/> Release Note (RN) |
| <input type="checkbox"/> Bug Report (BR) | <input type="checkbox"/> Training Material (TM) |
| <input checked="" type="checkbox"/> Other <u>Indoor Test Report MESH 5 Hops Circle</u> (OT) | |

Document ID.

OT-2012-11-01402

Subject

Indoor Test Report
of
APM-10xR

Revision History

Rev.	Date	Author	Reason for Changes
1.0	Nov. 14, 2012	Jacky Cheng	• Initial draft
1.1	Nov. 19, 2012	Jacky Cheng	• Fix testing attenuator values
			•
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Contents

1.0 SCOPE.....	1
1.1 INTRODUCTION.....	1
1.2 DATE/TIME.....	1
1.3 LOCATION	1
1.4 EQUIPMENT	1
1.5 TOPOLOGY	1
2.0 ENVIRONMENT	2
3.0 TEST RESULTS.....	2
3.1 TEST1-100 PAIRS FROM PC_1 TO PC_2.....	2
3.2 TEST2-100 PAIRS FROM PC_2 TO PC_1.....	4
3.3 TEST2-100 PAIRS (50T50R) BETWEEN PC_1 AND PC_1.....	6
APPENDIX I	7

1.0 Scope

1.1 Introduction

This file describes the test report of IO-Power APM-10xR Access Point indoor MESH Circle (5 hops)

1.2 Date/Time

- Date of test : 2012/11/14
- Operating time : AM 10:00 ~ PM 16:00

1.3 Location

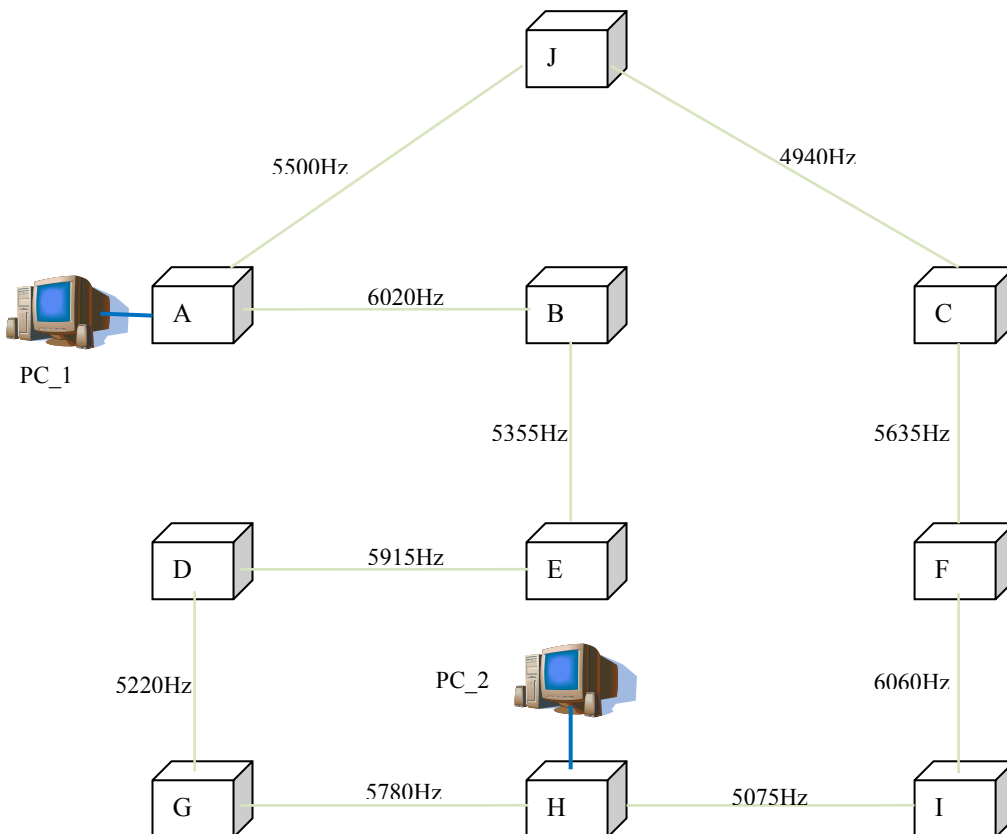
- IO-Power Office

1.4 Equipment

- Wireless device : APM-103R x 10
- Antenna : None, Indoor RF cable and each Antenna port adds 60dB attenuator(30dB x 2 connected)
- Computer : ASUS computer x 2
- Software : Windows XP SP3 \ IxChariot 5.40
- APM-103R Firmware Version : 2.04

1.5 Topology

- AP-A ~ AP-J, MESH version, PC_1 to PC_2 @ 5 Hops, 2 Paths





2.0 Environment

In the last page, each AP is connected to another by 2 units of RF cable(2x2 MIMO), and add 60dB attenuator(30dB x 2), AP is set HT40 mode.

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

Test 2 PCs by IxChariot, operating TCP throughput by 100pairs High Performance Script.

3.0 Test Results

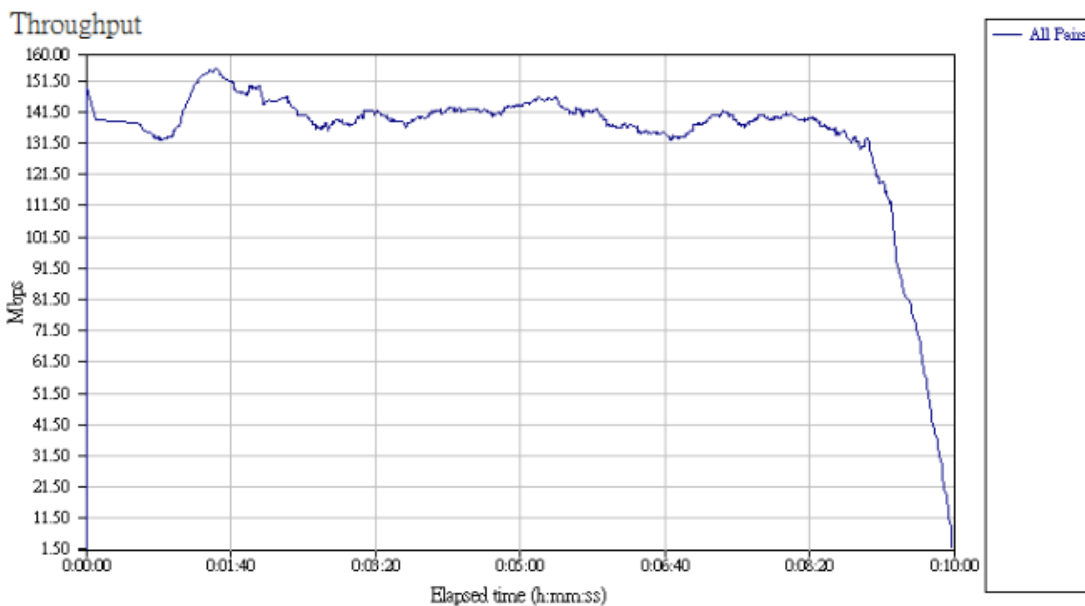
100Tx from PC_1 to PC_2	Total Throughput(Mbps)	Response Time	Transaction Rate
	134.216	57.031	1.760
100Rx from PC_1 to PC_2	Total Throughput(Mbps)	Response Time	Transaction Rate
	143.090	53.468	1.875
50T50R from PC_1 to PC_2	Total Throughput(Mbps)	Response Time	Transaction Rate
	158.002	49.531	2.045

3.1 Test1-100 pairs from PC_1 to PC_2

Report	Total Throughput(Mbps)	Response Time	Transaction Rate
	134.216	57.031	1.760

Throughput

Pair 100	1.470	1.232	2.618	0
Totals:	134.216	0.833	12.147	

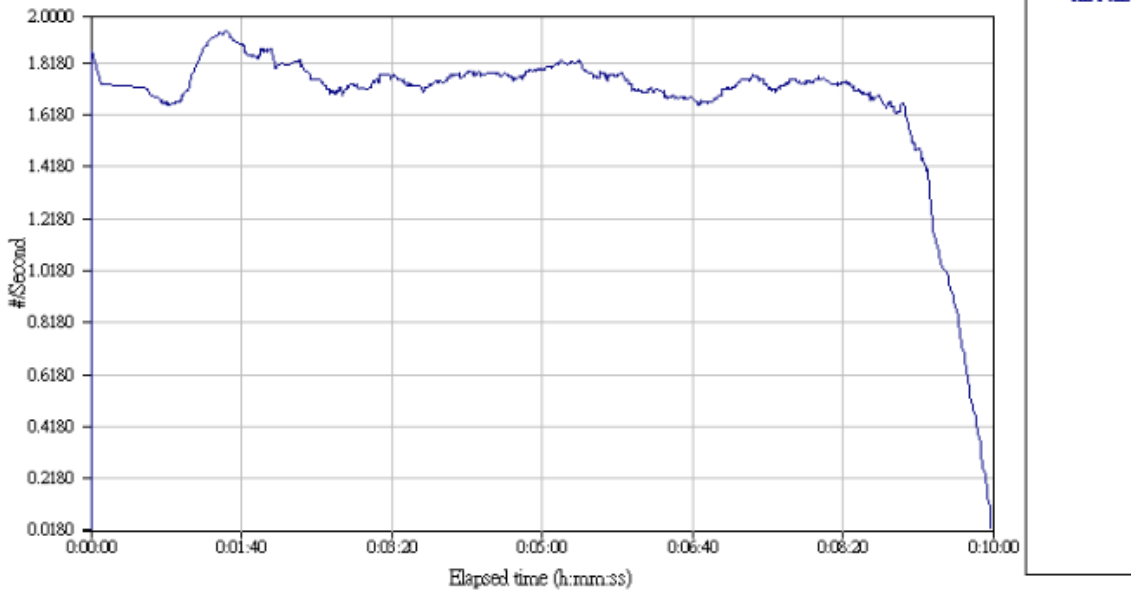




Transaction Rate

Pair 100	0.018	0.015	0.033
Totals:	1.760	0.010	0.152

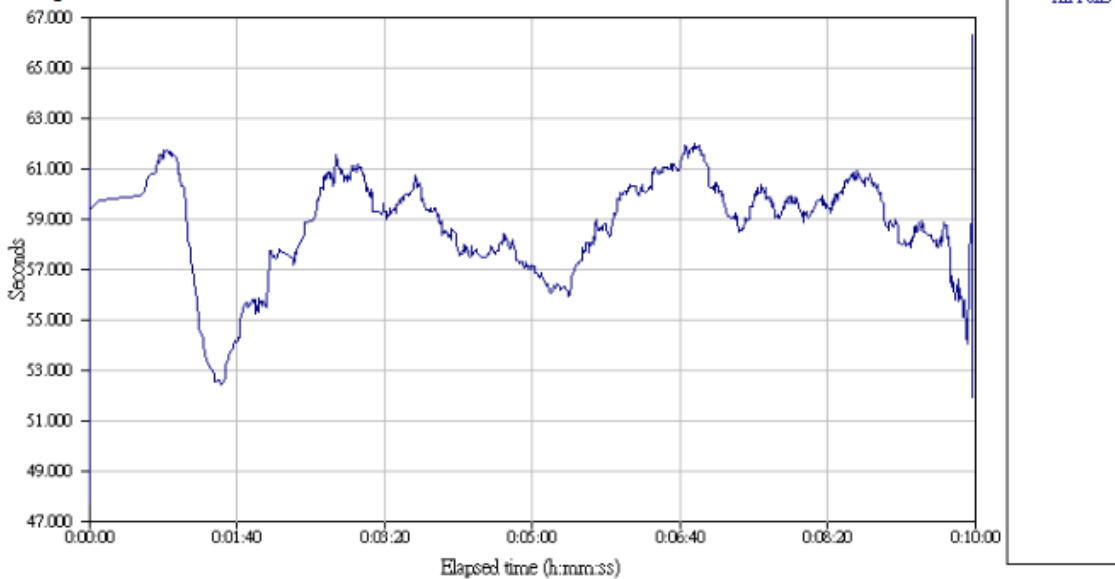
Transaction rate



Response Time

Pair 100	54.437	30.559	64.955
Totals:	57.031	6.586	96.045

Response time





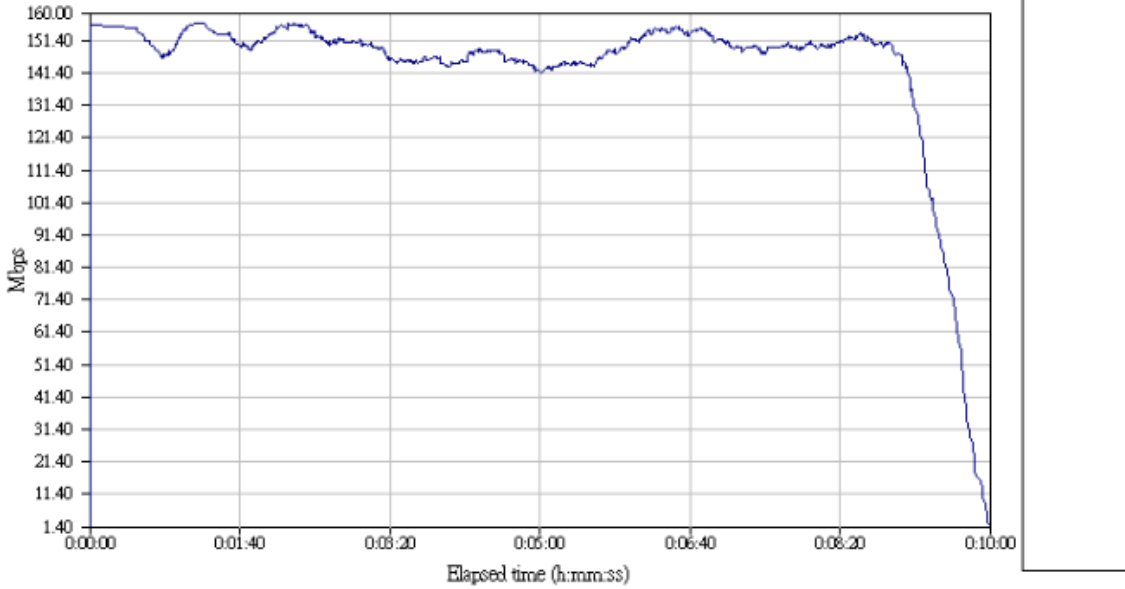
3.2 Test2-100 pairs from PC_2 to PC_1

Report	Total Throughput(Mbps)	Response Time	Transaction Rate
	143.090	53.468	1.875

Throughput

Pair 100	1.510	1.032	1.990	C
Totals:	143.090	0.991	3.466	

Throughput

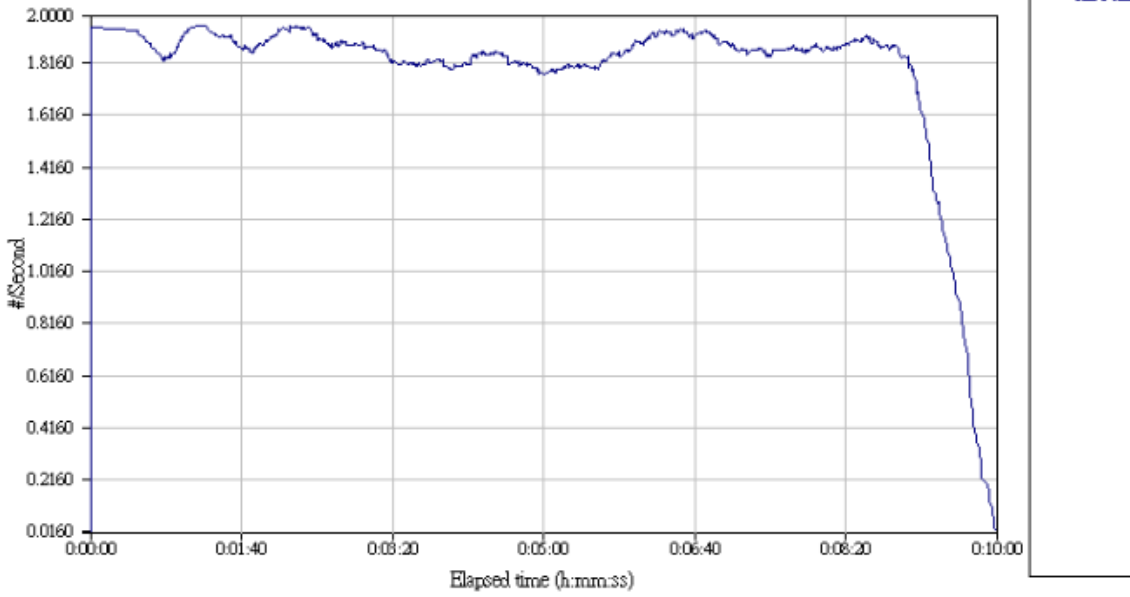




Transaction Rate

Pair 100	0.019	0.013	0.025
Totals:	1.875	0.012	0.043

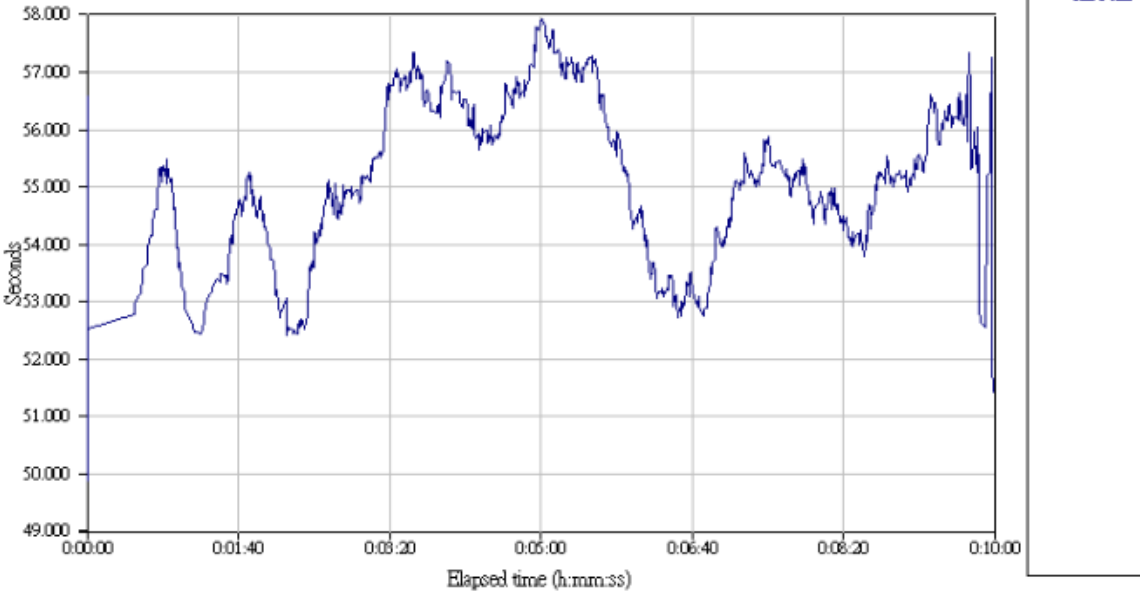
Transaction rate



Response Time

Pair 100	52.993	40.209	77.514
Totals:	53.468	23.080	80.740

Response time





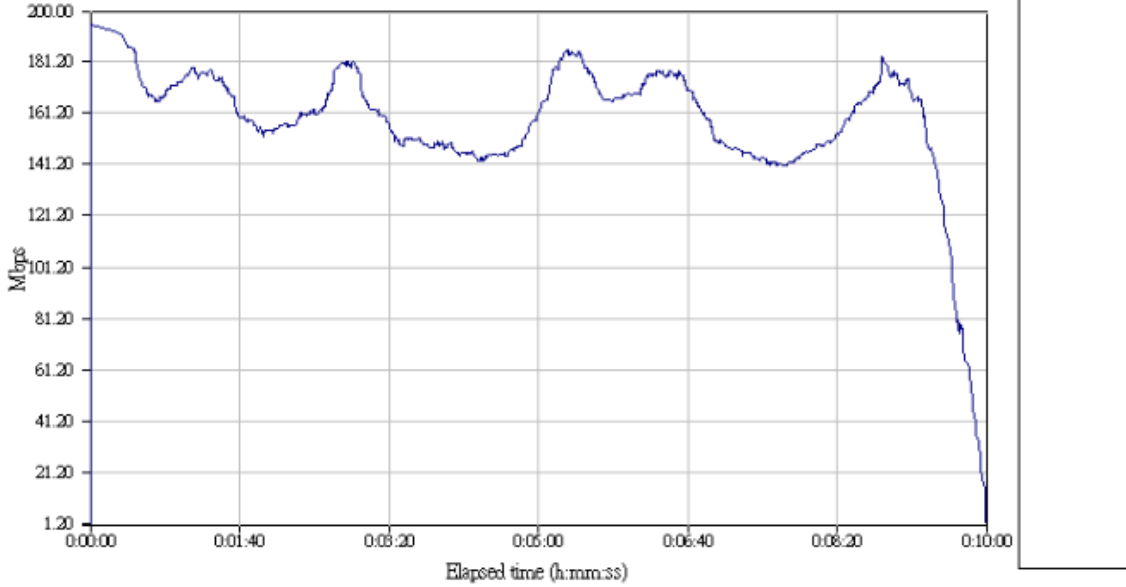
3.3 Test2-100 pairs (50T50R) between PC_1 and PC_1

Report	Total Throughput(Mbps)	Response Time	Transaction Rate
	158.002	49.531	2.045

Throughput

Pair 100	1.876	1.183	5.156	0
Totals:	158.002	0.903	6.646	

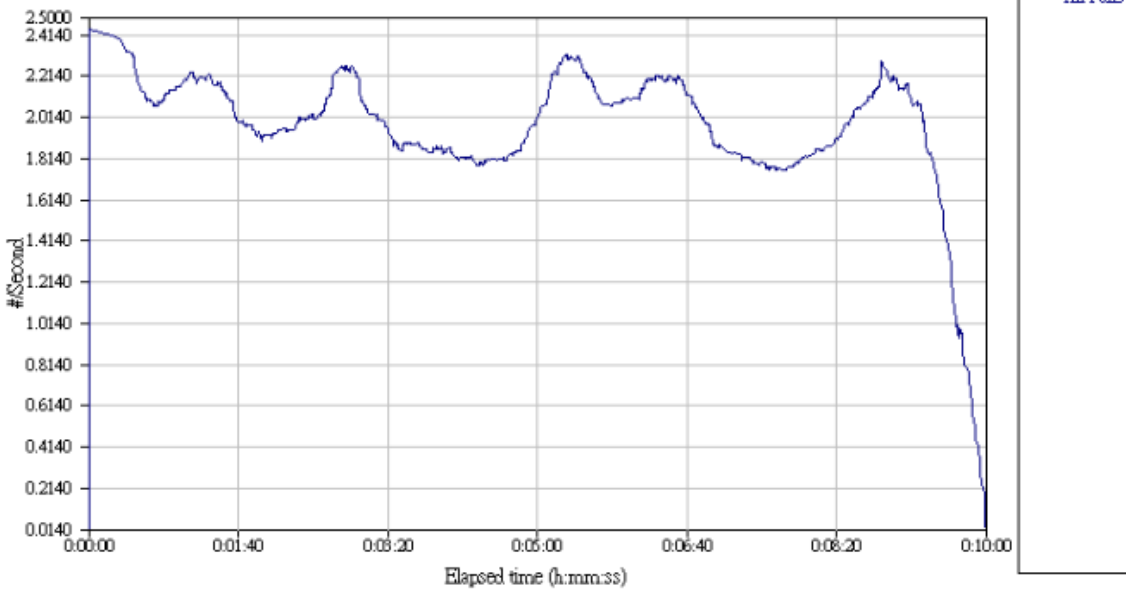
Throughput



Transaction Rate

Pair 100	0.023	0.015	0.064
Totals:	2.045	0.011	0.083

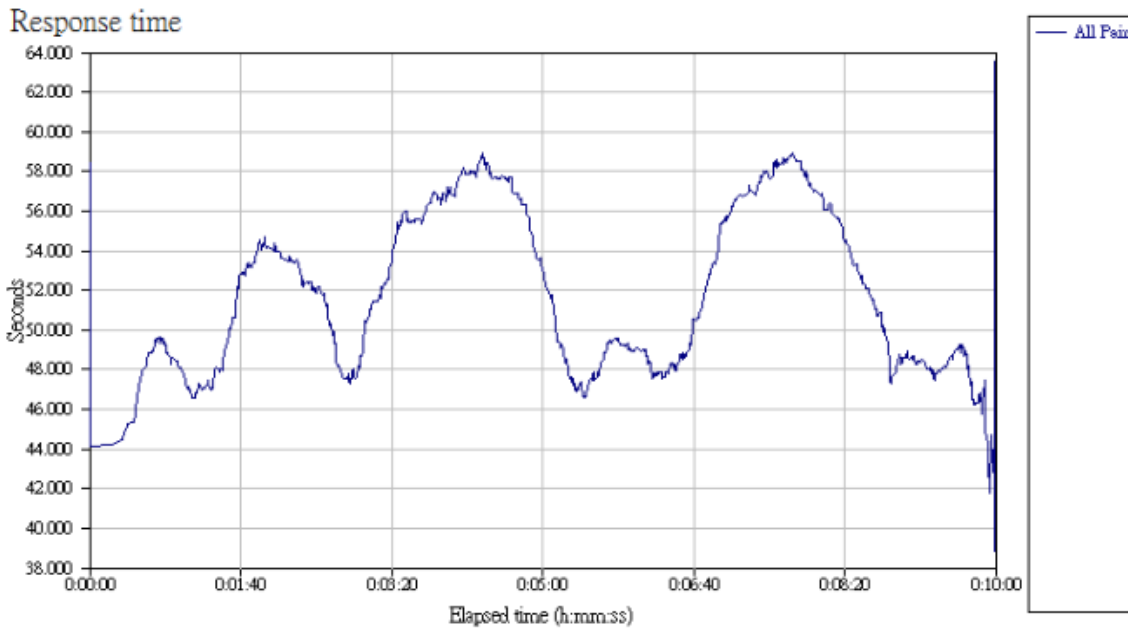
Transaction rate



Response Time



Pair 100	42.651	15.515	67.629
Totals:	49.531	12.038	88.549



Appendix I

None.