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Performance Test Report

Dragon InfoSec

Temtum Crypto Currency Network

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Version: 1.0

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Team

Mark Woan



Document Control Information

1.1 Document Details

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1.2 Revision History

Version	Date	Author	Summary of Changes
0.1	03/06/2019	Mark Woan	Initial Draft
0.2	10/06/2019	Daniel Elliott	Internal QA
1.0	10/06/2019	Daniel Elliott	Definitive Issue

1.3 Approvals

Name	Organisation	Role
Ines Rubio	BSI Cybersecurity and Information Resilience	Head of Information Management and Incident Response

1.4 Distribution

Name	Organisation	Role
Richard Dennis	Dragon InfoSec	CTO

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2 Executive Summary

BSI performed multiple performance tests against the Temtum crypto currency network. The tests were performed for the following durations:

- 30 seconds
- 1 minute
- 10 minutes
- 30 minutes

Each duration was tested three times to provide an average value. The aim of the testing was to determine a Transaction Per Second (TPS) value.

The testing was performed on a server provided by Dragon InfoSec, using a test harness provided by the client.

Over the twelve performance testing runs performed, an average value of 1332 TPS was achieved.

3 Introduction

3.1 Overview

BSI were commissioned by Dragon InfoSec to perform performance testing of the Temtum crypto currency network. The testing was carried out between the 31st May and the 1st June 2019.

3.2 Objectives

The object of the testing was to determine a Transactions Per Second (TPS) value for the Temtum crypto currency network.

4 Performance Testing

4.1 Background

BSI performed multiple performance tests against the Temtum crypto currency network. The tests were performed for the following duration:

- 30 seconds
- 1 minute
- 10 minutes
- 30 minutes

Each time period was tested three times to provide an average value. The aim of the testing was to determine a Transaction Per Second (TPS) value.

The testing was performed on a server provided by Dragon InfoSec, using a test harness provided by the client.

4.2 Testing Server

The details of the server provided for testing are shown in the table below:

Item	Data
IP Address	145.239.7.43
Host Name	ns3083193
OS	Ubuntu 18.04.2 LTS
CPU	Intel(R) Xeon(R) CPU E5-1650 v4 @ 3.60GHz (6 Cores)
RAM	64 GB

4.3 Results

The table below details the results of the twelve test runs performed:

Duration (Seconds)	Transaction Total
30	43485
30	44982
30	45916
60	56234
60	57493
60	75846
600	831212
600	768714
600	657146
1800	2370096
1800	3722566
1800	2175167

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The table below details the minimum, maximum, and average transaction (TXN) and TPS values for each of the durations tested:

Duration (Seconds)	Min TXN	Max TXN	Avg TXN	Min TPS	Max TPS	AVg TPS
30	43485	45916	44794	1449	1530	1493
60	56234	75846	63191	937	1264	1053
600	657146	831212	752357	1095	1385	1253
1800	2175167	3722566	2755943	1208	2068	1531

Over the twelve performance test runs performed, an average value of 1332 TPS was achieved.

Appendix A –Team

This test was undertaken using the following consultant:

- Mark Woan (Head of Incident Response)

Any queries regarding this test and report should be directed to:

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