Penetration Tester

Product Design Specification

Version 1.0

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Version History

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| Version  # | Implemented  By | Revision  Date | Approved  By | Approval  Date | Reason |
| 1 | T.A. Marquard | 10/25/17 | Spencer Ollila | 10/25/17 | Getting Started |
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Notes

Table of Contents

**Type chapter title (level 1)1**

Type chapter title (level 2)2

Type chapter title (level 3)3

**Type chapter title (level 1)4**

Type chapter title (level 2)5

Type chapter title (level 3)6

1. **Introduction**
   1. **Purpose of the Product Design Specification Document**

The Product Design Specification document will document and track the design and planning of the Mobile Penetration Tester.

1. **General Overview and Design Guidelines/Approach**
   1. **Assumptions / Constraints / Standards**
2. **Architecture Design**
   1. **Logical View**
   2. **Hardware Architecture**

There are many hardware components to our design. We will interface with and attempt to penetrate a network from multiple angles, and this requires a diversity of hardware.

1. Rubber Ducky

The Rubber Ducky will need to be plugged into a computer connected to the network in question. It will attempt to gather information and send it/ store it in a secure way.

1. LAN Turtle
2. Wi-Fi Pineapple
3. Raspberry Pi
4. Server (?)
   1. **Software Architecture**

We will have scripted actions and some automation in much of what happens, including an automated report. This will involve shell scripting. We also will need a program to gather and sort information. We may potentially want some communication among our hardware that will involve some communication program.

* 1. **Security Architecture**

Since all the information we are dealing with is potentially sensitive, we will need strong encryptions, as well as secure connections.

* 1. **Communication Architecture**

We will be potentially communicating and relaying info with an external server.

* 1. **Performance**

We will have a baseline computer that proves our stuff does work.

1. **System Design**
   1. **Use-Cases**
   2. **Database Design**
   3. **Data Conversions**
   4. **Application Program Interfaces**
   5. **User Interface Design**
   6. **User Interface Design**
   7. **Performance**
2. **Product Design Specification Approval**

**Appendix A: References**

**Appendix B: Key Terms**