**Mobile Platform Security Assessment Report**

**Conducted by Brendan Murphy**

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# Executive Summary

The purpose of this document is to conduct a Mobile Platform Security Assessment of an Android Device.

Overall the assessment revealed an average risk rating of very low. Of particular interest is the section that outlines the latest firmwareversion on the phone. Based on my analysis, the phone is running Android version 2.6.29-gc497e41 and it is unclear if this is the latest, patched version of the software available. There is no easy way to determine the availability of software updates within the user interface. This is a high level security threat, as any number malicious software could corrupt an unpatched Android OS possible leading to data loss or system failure.

# Test Parameters

The Objective of this evaluation is to conduct Mobile Platform Security Assessment on an Android Device. The Scope of this evaluation is an **5554:lab. 5554:lab** is an Android Emulator of an Android Device. This Platform Security Assessment conducted an analysis of the device for against the [CIS Google Android 4 Benchmark](https://benchmarks.cisecurity.org/tools2/android/CIS_Google_Android_4_Benchmark_v1.0.0.pdf). This Analysis includes a manual techniques.

# Targets

The Scope of the evaluation is as follows:

**Logical Acquisition**

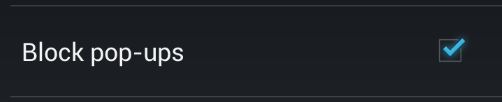
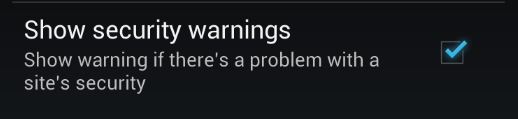
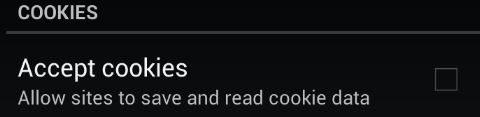
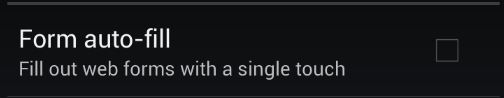
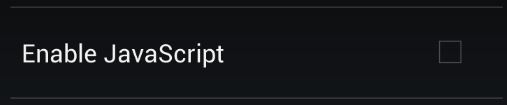
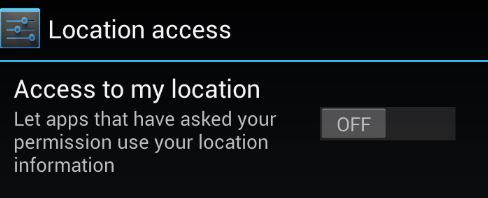
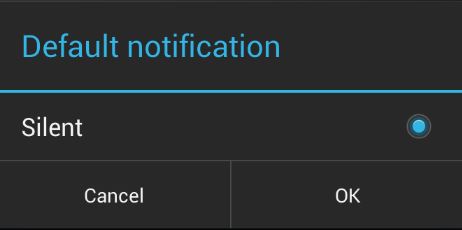
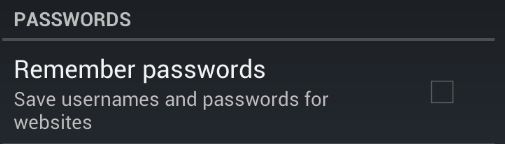
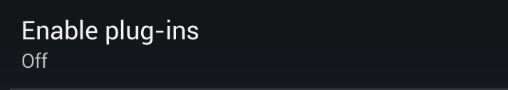
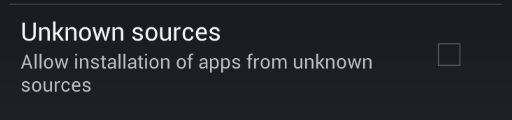
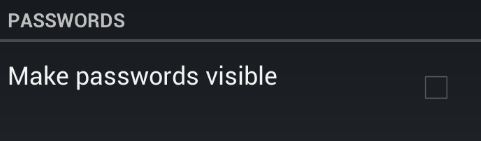
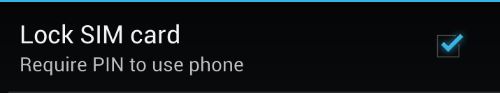
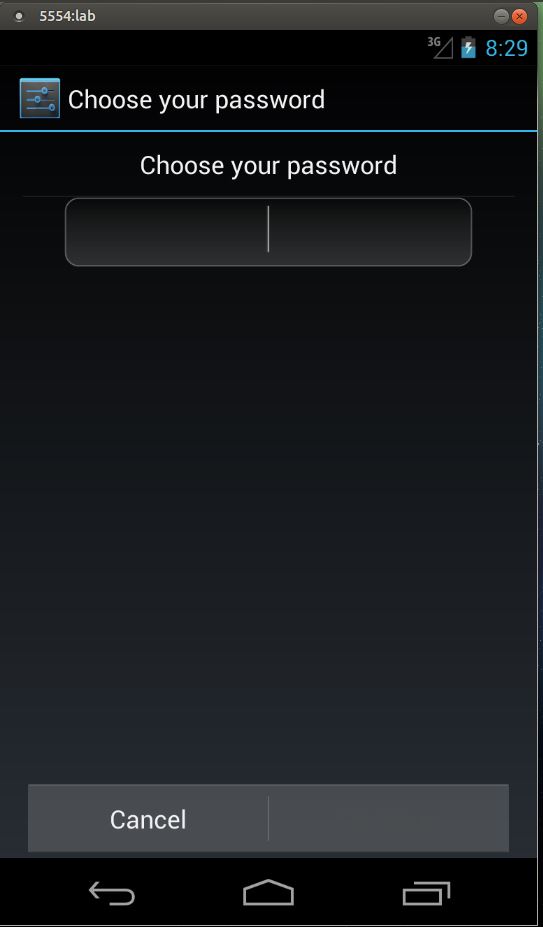
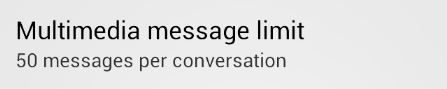
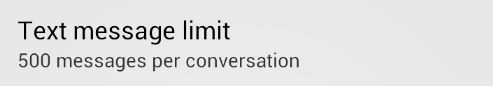
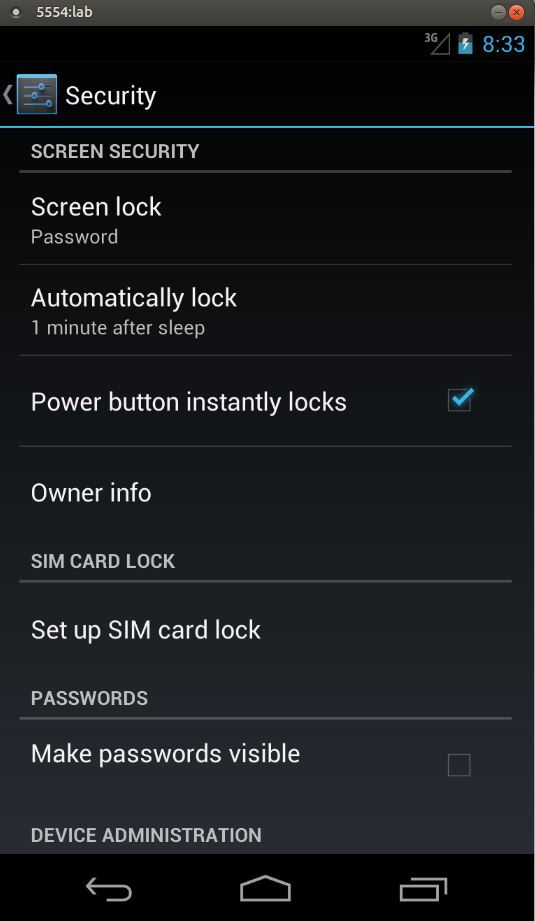
* 1. Android Emulator - 5554:lab

# Analysis

Table : CIS Google Android 4 Benchmark – Android (5554:lab) Platform Security Assessment

| **SECTION** | **#** | **SECURITY REQUIREMENT** | **IN PLACE** | **NOT IN PLACE** | **RISK RATING** | **DOCUMENTATION** | **RECOMMENDATION** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1.1 SYSTEM SETTINGS** | **1.1.1** | **Update 'firmware' to latest version** | **Unable to determine** |  | **low** | **Appendix A – Section 1** | **Update firmware immediately** |
| **1.1.2** | **Enable Password** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.3** | **Enable 'Require alphanumeric value'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.4** | **Set 'timeout in minutes' for 'Sleep'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.5** | **Remove Entries in 'Wi-Fi'** | **N/A** |  | **0** |  | **Not available in Android 7.0** |
| **1.1.6** | **Disable 'Network Notification'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **1.1.7** | **Disable 'Wi-Fi'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **1.1.8** | **Disable 'Bluetooth'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.9** | **Disable 'Location Services'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.10** | **Enable 'Airplane Mode'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.11** | **Erase all data before return, recycle, reassignment, or other disposition** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **1.1.12** | **Disable 'Notifications'** | **YES** |  | **0** | **Appendix A – Section 1** | **Set to silent** |
| **1.1.13** | **Enable 'Lock SIM card'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.14** | **Disable 'make passwords visible'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.15** | **Enable 'Encrypt phone'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **1.1.16** | **Disable 'developer options'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.17** | **Disable 'Unknown sources'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.18** | **Limit the 'number of messages' for 'Text message limit'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.1.19** | **Limit the 'number of messages' for 'Multimedia message limit'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.2 BROWSER SETTINGS** | **1.2.1** | **Disable 'JavaScript'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.2.2** | **Enable 'Show security warnings'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.2.3** | **Disable 'Form auto-fill'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.2.4** | **Disable 'Accept Cookies'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.2.5** | **Enable 'Block pop-ups'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.2.6** | **Disable ‘Remember passwords’** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **1.2.7** | **Disable 'plug-ins'** | **YES** |  | **0** | **Appendix A – Section 1** |  |
| **2.1 PASSWORD SETTINGS** | **2.1.1** | **Enable 'Require password'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **2.1.2** | **Enable 'Require alphanumeric value'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **2.1.3** | **Set the 'minimum password length'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **2.1.4** | **Set the 'minimum number of character sets'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **2.1.5** | **Set the 'timeout' for 'Time without user input before password must be re-entered (in minutes)'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **2.1.6** | **Limit the 'Number of failed attempts allowed'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **2.1.7** | **Set the 'number of days' for 'maximum password age'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **2.1.8** | **Set the 'number of passwords' for 'password history'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |
| **2.1.9** | **Enable 'Require encryption on the device'** | **N/A** | **N/A** | **N/A** | **N/A** | **N/A** |

# Appendix – Documentation

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