

## Test Plan and Results

### Overall Test Plan

This test plan is designed to check the integration of the Raspbian Fork OS and also in the built python gui script to make sure all of their packages work together and there are no functional or graphical issues.

### Test Case Descriptions

#### CS1.1 **Bootup Overlay**

CS1.2 This test is to show that the correct boot image is loaded

CS1.4 Inputs: Power the Device

CS1.5 Outputs: The Autoconnect logo should be displayed with an accompanying progress bar.

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test

#### CS1.1 **Bootup Time**

CS1.2 This test is to show the speed at which the OS boots

CS1.4 Inputs: Power the Device

CS1.5 Outputs: The OS should be booted and displaying the App Home Screen within 30 seconds of power on.

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test

#### CS1.1 **Settings App**

CS1.2 This test is to show correct operation of the settings App

CS1.4 Inputs: Select the settings app from the Main Menu

CS1.5 Outputs: The OS should switch to a settings menu with options for the user to change

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test

### CS1.1 **Light Mode**

CS1.2 This test is to show that the OS can switch between light and dark mode

CS1.4 Inputs: Select the Settings Menu -> Toggle Light Mode switch

CS1.5 Outputs: The gui colors should switch between a light and a dark mode

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test

### CS1.1 **TunerStudioMS App**

CS1.2 This test is to show correct operation of the TunerStudioMS App

CS1.4 Inputs: Select the EFI Analytics app from the Main Menu

CS1.5 Outputs: The OS should use java to launch the TunerStudioMS App and it should come on fullscreen.

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test

### CS1.1 **MegaLogViewer App**

CS1.2 This test is to show correct operation of the MegaLogViewer App

CS1.4 Inputs: Select the MegaLogViewer app from the Main Menu

CS1.5 Outputs: The OS should use java to launch the MegaLogViewer App and it should come on fullscreen.

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test

### CS1.1 **Audio Connection App**

CS1.2 This test is to show correct operation of the Audio Connection App

CS1.4 Inputs: Select the Audio Connection app from the Main Menu

CS1.5 Outputs: The OS should launch the AudioConnection App and it should come on fullscreen.

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

## CS1.9 Unit Test

### CS1.1 **Android Auto App**

CS1.2 This test is to show correct operation of the Android Auto App

CS1.4 Inputs: Select the Android Auto app from the Main Menu

CS1.5 Outputs: The OS should launch the Android Auto App and it should come on fullscreen.

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test

### CS1.1 **Android Auto Device Connection**

CS1.2 This test is to show that android auto detects when a device is connected.

CS1.4 Inputs: Open the Android Auto App and Connect an Android Phone

CS1.5 Outputs: The phone should be connected and the app should respond

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test

### CS1.1 **Android Auto Device Connection**

CS1.2 This test is to show that the Audio App detects when a device is connected.

CS1.4 Inputs: Open the Audio App and Connect a Phone

CS1.5 Outputs: The phone should be connected and the app should respond

CS1.6 Normal

CS1.7 Blackbox

CS1.8 Functional

CS1.9 Unit Test