|  |
| --- |
| **Test Protocol**  **for Session 1591** |
| Manual System Regression Testing |
|  |
|  |
| **As Of** |
| 9/25/12 7:52 AM |
|  |
|  |
| |  |  | | --- | --- | |  |  | | Current User: | administrator | | User Full Name: | Administrator | | User Description: |  | | User e-Mail: | administrator@vmemail.com | |  |  | | Generation Date: |  | |  |  | | Session State: | In Testing | | Session ID: | 1591 | | Session Type: | Manual | |  | | |  | | |

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| --- | --- |
| Introduction | http://png-5.findicons.com/files/icons/1684/ravenna/256/tools.png |

This Test Protocol should be approved before protocol execution. A copy of the unexecuted protocol should be kept in the validation package. The unexecuted protocol should be approved by the System Owner and Quality Assurance. The executed protocol should be signed by the tester and reviewed by the system owner and Quality.

|  |  |
| --- | --- |
| Summary | http://png-5.findicons.com/files/icons/1684/ravenna/256/tools.png |

## **Session Details**

|  |  |
| --- | --- |
| ID: | 1591 |
| Summary: | Manual System Regression Testing |
| State: | In Testing |
| Priority: | High |
| Project: | /Projects/Monitor-R1 |
| Planned Start Date: | 9/1/11 12:00 AM |
| Planned End Date: | 9/21/11 12:00 AM |
| As Of Date: | 9/25/12 7:52 AM |
| Tester: | senior\_qa\_analyst |

## **Test Metrics**

**Tests**

|  |  |  |  |
| --- | --- | --- | --- |
| Planned: | 28 |  | |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||| (28) |
| Executed: | 0 (0 %) |  | (0) |
| Passed: | 0 |  | (0) |
| Failed: | 0 |  | (0) |
| Other (Skipped): | 0 |  | (0) |

**Defects**

|  |  |  |  |
| --- | --- | --- | --- |
| Total: | 0 |  | (0) |
| Pending: | 0 |  | (0) |
| Open: | 0 |  | (0) |
| Closed: | 0 |  | (0) |

## **Hints**

The following abbreviations are used in this document:

Abbreviations: D = Design, R = Requirement, T = Test, TS = Test Step

|  |  |
| --- | --- |
| Test Configuration | http://png-5.findicons.com/files/icons/1684/ravenna/256/tools.png |

|  |  |  |
| --- | --- | --- |
| Build ID: |  |  |
| Test Environment: |  | |
|  | | |

|  |  |
| --- | --- |
| Test Objective | http://png-5.findicons.com/files/icons/1684/ravenna/256/tools.png |

Verification of Requirements, Risks and Control Measures

Verification of Requirements, Risks and Control Measures

|  |  |
| --- | --- |
| Tests, Steps and Results | http://png-5.findicons.com/files/icons/1684/ravenna/256/tools.png |

| **ID** | **Description** | **Result** | |
| --- | --- | --- | --- |
| **Expected Result** | **Trace IDs** | |
| System integration test document | | |  | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | T-1213 | Test watch at simulated water depth of 110m to ensure safety statement is valid. Also expose watch to high impact water penetrations in order to make sure watch the face does not crack or break. | Not Tested | |
|  |  | Watch face does not crack or break. No visibile moisture inside crystal. |  | |
|  | T-1215 | Connect watch using USB connection. Connect it to a Windows run PC and a Unix based PC to test time synchronization | Not Tested | |
|  |  | Verify test time data can be passed from watch to computer. |  | |
|  | T-1217 | Connect to PC through USB interface to check for auto detection on both Windows and Unix computers | Not Tested | |
|  |  | Verify watch is recognized as USB device. |  | |
|  | T-1219 | During testing, the watch must be synchronized to a global time standard | Not Tested | |
|  |  | Verify that watch time is synched to GMT. |  | |
|  | T-1221 | Synchronize watch to a reliable clock service, such as a satellite clock, and run it continuously for 3 months. Check back against the satellite clock to see if error is within 3 seconds. | Not Tested | |
|  |  | Verify long term accuracy test completed successfully. |  | |
|  | T-1223 | *Port is mounted on the inner-facing side of the wristwatch.* | Not Tested | |
|  |  | Verify port mount position. |  | |
|  | T-1225 | Connect the beeper to a **{{p\_beeper\_voltage}}** power supply (to be the same as what the watch itself will run on) and callibrate it to produce sound at **{{p\_beeper\_frequency}}**. Run the beeper for both half-second intervals and short 1/5 of a second intervals. Perform this test 500 times on the beeper. | Not Tested | |
|  |  | Verify beeper calibration completed successfully. |  | |
|  | T-1227 | After the push button mechanism has been fabricated, push the external button 10 times per degree in a 70-degree arc around the exterior button. This mechanism should have no more than a 5% failure rate to become a production piece. The following diagram will help explain the test procedure for this component: | Not Tested | |
|  |  | Verify robotic push button test automation completed successfully. |  | |
|  | T-1229 | Connect the LED to a **12.1v** power supply and measure the intensity of the light given off. In order to properly light the watch frame in darker conditions, the LED much give off a minimum of **{{p\_led\_brightness}}**. | Not Tested | |
|  |  | Verify LED calibration completed successfully. |  | |
|  | T-1231 | Assemble the watch on a bread board and connect the entire circuit to a 315 Silver Oxide Button Cell Battery to test that the battery can indeed power the entire circuit even in the worst case scenario. | Not Tested | |
|  |  | Verify minimum battery power test completed successfully. |  | |
|  | T-1233 | Write to the embeded EEPROM a total of **{{p\_eeprom\_scalability}}** times to ensure no loss of data occurs. This is working under the assumption that the user will not modify the data in the watch (including the chronometer time and the timer time) more than **{{p\_eeprom\_scalability}}** times total. | Not Tested | |
|  |  | Verify EEPROM flash burn in test completed successfully. |  | |
|  | T-1235 | To test the functionality and reliability of the entire navigation system, tap the navigation button 50 times to achieve 10 complete cycles of all the screens in the watch. | Not Tested | |
|  |  | Verify navigation stress test completed successfully. |  | |
|  | T-1237 | On **all screens** that have an edit mode, hold the navigation button for three seconds to enter the edit mode of that screen. While in the mode, cycle through every editable field of that screen three times to ensure that the system loops around properly. Then, hold the navigation button for three seconds to exit out of edit mode. | Not Tested | |
|  |  | Navigation system menus appear and loop properly. |  | |
|  | T-1239 | Test the backlight by  a) Tapping it.  b) Holding it for 5 seconds.  In (a), the backlight should remain on for **{{p\_backlight\_duration}}** after the user depresses the backlight button. In (b), the backlight should remain alit while the user is holding down the backlight button as well as **{{p\_backlight\_duration}}** after they depress the button. Therefore, the backlight should remain on for **{{p\_backlight\_duration}}** in (a) and eight seconds in (b). | Not Tested | |
|  |  | Verify backlight remains on for {{p\_backlight\_duration}} after tap. |  | |
|  | T-1241 | On **every screen** that has an edit mode, enter edit mode and increase/decrease every editable field to a different value of the previous iteration of this test. Repeat this test a total of ten times on every screen. | Not Tested | |
|  |  | Verify that randomized edit mode test completed successfully. |  | |
|  | T-1245 | Run the chronometer in five second intervals for ten intervals total, stopping and starting at the end of every interval. On every third interval, reset the chronometer and on the last interval, let the chronometer run until it loops back to 00:00:00.00. |  | |
|  |  | Verify that lap counter test completes successfully. |  | |
|  | T-1247 | Enter the edit mode of the timer and set it for 23:24 to allow for multiple button presses. Run the timer for five minutes and the reset it to 13:20 by first going passed the desired values for both hours and minutes and forcing the system to loop back to 00:00. From there, set the time properly to 13:20 and run the timer for the full duration. | Not Tested | |
|  |  | Verify timer counter test completes successfully. |  | |
| Feature test document | | | |  | |

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| --- | --- | --- | --- | --- |
|  | T-1250 | Watch must conform to version 2.5 (newest version) of the timing synchronization API | Not Tested | |
|  |  |  |  | |
|  | T-1252 | No character on the digital display should be any smaller than 0.2 inches. This is to allow the user to read any character that appears on the screen. The screen should have a sufficient resolution to display a character of that size with no pixelation or distortion. | Not Tested | |
|  |  |  |  | |
|  | T-1254 | Pulse the Beeper at a frequency of 600Hz using a buffer of 100Hz for 5 consecutive minutes to make sure that the Beeper's crystal will not break. | Not Tested | |
|  |  |  |  | |
|  | T-1256 | Run the timer program followed by the chronometer program to illustrate that the counters do, in fact, count in opposite directions. | Not Tested | |
|  |  |  |  | |
|  | T-1258 | Run the watch through the cycle of screens 100 times to make sure it continues to loop around without any form of slow down/hesitation, giving the impression of a coding error. | Not Tested | |
|  |  |  |  | |
|  | T-1260 | Change the date through a software test process to see if the new time overwrites the old and gets properly stored in memory. Also check the other time zone times to see if the automatic offset took place. | Not Tested | |
|  |  |  |  | |
| Visual Implementation test document | | | |  | |

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| --- | --- | --- | --- |
|  | T-1263 | Navigate to the Main Screen. The visual layout of the screen must conform to is specifications found in the Layout Specification Document. | Not Tested |
|  |  |  |  |
|  | T-1265 | Navigate to the Timer Screen. The visual layout of the screen must conform to is specifications found in the Layout Specification Document. | Not Tested |
|  |  |  |  |
|  | T-1267 | Navigate to the Chronometer Screen. The visual layout of the screen must conform to is specifications found in the Layout Specification Document. | Not Tested |
|  |  |  |  |
|  | T-1269 | Navigate to the Alarm Screen. The visual layout of the screen must conform to is specifications found in the Layout Specification Document. | Not Tested |
|  |  |  |  |
|  | T-1271 | Navigate to both Time Zone Screens. The visual layout of both screens should be identical. They must also conform to their specifications found in the Layout Specification Document. | Not Tested |
|  |  |  |  |

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| --- | --- |
| Signatures | http://png-5.findicons.com/files/icons/1684/ravenna/256/tools.png |

**Tester:**

|  |  |  |
| --- | --- | --- |
| Date | Name | Signature |

**Quality Manager:**

|  |  |  |
| --- | --- | --- |
| Date | Name | Signature |