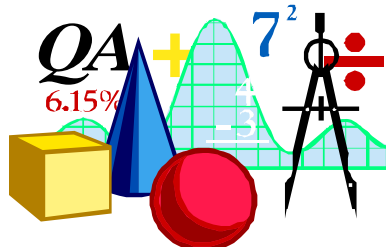


TEST CASE PROCEDURE



Kaye Validator AVS Software

Version 1.2.3 Upgrade

Test Case

PROCEDURE

Control No. EDN 525

Revision: A

AUTHORS

Harjinder Singh

Sasmita Moharana

KAYE

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1.0 Overview

This test case details the testing performed on the Kaye Validator AVS software version 1.2.3 release.

Kaye Validator AVS 1.2.3 is an upgrade of the software for the Kaye Validator AVS 1.2 System, including the 20 major bug fixes:

- Software-Firmware Version Compatibility
- AVS Software Upgrade
- Bug fixes related to Customer reported defects and defects from previous phases

2.0 References

SRD039	Kaye Validator AVS Software Requirement Specification version 1.2.1	Rev. D
URS039	Kaye Validator AVS User Requirement Specification 1.2.1	Rev. D
EDN 524	Kaye Validator AVS 1.2.3 Test Plan	Rev. A
EDN 421	Kaye Validator AVS Console Software Test Case	Rev. A
EDN 423	Kaye Validator AVS Console Report Software Test Case	Rev. A
ALM	Application Lifecycle Management (HPQC)	Ver. 12.53

3.0 Equipment & Setup Requirements

Kaye Validation Console with Windows 8.1 64bit based core load

Kaye Validator AVS

Thermocouple SIM

RTD SIM

Current SIM

Current Source 4 to 20 mA

Kaye Dry Bath LTR-40, HTR-400

Kaye Validator AVS Software 1.2.3

4.0 Success Criteria

Each product function tested has a written explanation of expected result as well as place for the test conductor to either document the actual result, reference the test result document, or indicate a pass / Fail result. The expected and actual results can be found in the test section of this test case. Any indicated Failures can be referenced to the QA defect database. The defect record contains all information pertaining to the Failure. The Failure indication in the test case will only be changed if the criteria are passed during the next test. The QA defect database will save all information on the defect and its fix.

Note: Available test results are saved in HPQC Bug Tracking system as an attachment or on Quality network drive

5.0 Test Procedure

This test procedure details the testing performed on Kaye Validator AVS software version 1.2.3 that includes major enhancements listed above in "Overview" section as well as bug fixes

5.1 Version Compatibility

Version Compatibility check to verify that all changes related to versioning should be reflected in Main app and report app. New version should be visible in all reports

Verify the following scenarios and indicate the result with a Pass or Fail

Pass/Fail

- | | | |
|-------|---|-------------|
| 5.1.1 | Verify if Software having 1.2.X.x version (major- 1.2 and minor X.x) is compatible (connection is established) with firmware having version 1.2.X.x | <i>Pass</i> |
| 5.1.2 | Verify if valid format Firmware Version is displayed in the reports section of the application. | <i>Pass</i> |

Note: Available test results are saved in HPQC Bug Tracking system as an attachment or on Quality network drive

Section 5.1 Tested by *Sasmita Moharana* Date 12-June-2017
Sasmita Moharana

5.2 AVS Software Upgrade

This section defines Kaye Validator AVS upgrade installation on existing version. Verify that the program launches, Setups, and Report files are present and can be accessed. Also create a user, create a setup, run a short Calibration, Calibration Verification and Qualification study, and print reports. This will ensure all the correct files are present. Ensure HMI console is logged in as Kaye Admin with Kaye operator being logged out to perform the AVS SW upgrade installation.

Verify the following defects addressed as Fixed and indicate the result with a Pass or Fail

Pass/Fail

5.2.1	Verify if Kaye Validator AVS program is launched with upgraded version no. Confirm the same in the About window	Pass
5.2.2	Verify if existing users are allowed to login into the upgraded AVS program with respective UID-PW credentials	Pass
5.2.3	Verify if existing Assets and its corresponding files are still intact and accessible	Pass
5.2.4	Verify if existing policies & preferences are still applicable with the upgraded build.	Pass
5.2.5	Verify if existing study files is able to get generated via upgraded build version with report header reflecting the upgraded version of AVS RW	Pass
5.2.6	Verify if the new software version details is updated in all reports generated via AVS RW app	Pass

Note: Available test results are saved in HPQC Bug Tracking system as an attachment or on Quality network drive

Section 5.2 Tested by Sasmita Moharana Date 12-June-2017
Sasmita Moharana

5.3 Bug fixes

Referencing the HP Quality Center database, test the following bug track items to their described issue and verify fix and functionality is in place. Test comments and closed by QA date is entered into HP QC for each track item tested.

Verify the following defects addressed as Fixed and indicate the result with a Pass or Fail

Pass/Fail

5.3.1	Defect 2165-File operations (Sync IN_Out_Archive_Upload Doc, File Convert) are not working with mapped drives or network path	Pass
5.3.2	Defect 2288-Password expiration not working on users imported by Synchronization	Pass
5.3.3	Defect 2297-Upgrade installation of new build gets rid of old versions User list_Asset_Setups_Qual_Cal details in the new build launch	Pass
5.3.4	Defect 2299-Unable to upgrade AVS SW build 1.0 (1.2.0.25/28) version to build 1.2 (1.2.0.21) throwing an error message in between. But it is working fine while upgrading from 1.1 (1.1.0.9) to 1.2 (1.2.0.21).	Pass
5.3.5	Defect 2290-Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined based on temp conditions	Pass
5.3.6	Defect 2325- Garbage data and undefined relay events are displayed in Reports for Qual study when Exposure Stop condition is set to Exp Time and Qual start, Exp Start and Qual	Pass
5.3.7	Defect 2352 - Garbage data is displayed in Reports for Qual study when sensor type is configured as TC (0.1).	Pass
5.3.8	Defect 2327- Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to exposure cycle and Exp Start/End when configured as Cycle	Pass
5.3.9	Defect 2328 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to Entire cycle and Exp Start/End when configured as Cycle Time	Pass

- | | | |
|--------|--|------|
| 5.3.10 | Defect 2329 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to During Entire cycle and Exp Start/End | Pass |
| 5.3.11 | Defect 2331 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to Entire Cycle in the below defined setup. | Pass |
| 5.3.12 | Defect 2332 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to Exposure Cycle in the below defined setup. | Pass |
| 5.3.13 | Defect 2333 - Discrepancy in total ALeth value in Summary and Detailed report when Lethality is defined to Exposure Cycle in the below defined setup. | Pass |
| 5.3.14 | Defect 2334 - Discrepancy in total ALeth value in Summary and Detailed report when Lethality is defined to Entire Cycle in the below defined setup. | Pass |
| 5.3.15 | Defect 2335 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to During Exposure Cycle and Exp Start/End when configured as Manual and Qual Start/Stop configured to manual. | Pass |
| 5.3.16 | Defect 2336 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to During Entire Cycle and Exp Start/End when configured as Min Temp Condition and Qual Start/Stop configured to Temp Condition. | Pass |
| 5.3.17 | Defect 2337 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to During Exposure Cycle and Exp Start/End when configured as Min Temp Condition and Qual Start/Stop configured to Temp Condition. | Pass |
| 5.3.18 | Defect 2338 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to Exposure Cycle in the below defined setup. | Pass |
| 5.3.19 | Defect 2339 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to During Exposure Cycle and Exp Start as Manual and Expo End configured as Exp Time and Qual Start as Manual and Qual Stop configured to Cycle time. | Pass |
| 5.3.20 | Defect 2340 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to During Entire Cycle and Exp Start as Manual and Expo End configured as Exp Time and Qual Start as Manual and Qual Stop configured to Cycle time. | Pass |
| 5.3.21 | Defect 2341 - Discrepancy in total ALeth value in Summary and Detailed report when Lethality is defined to Entire Cycle in the below defined setup. | Pass |
| 5.3.22 | Defect 2342 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to During Entire Cycle and Exp Start as Cycle Time and Expo End configured as Exp Time and Qual Start as Manual and Qual Stop configured to Cycle time. | Pass |
| 5.3.23 | Defect 2343 - Discrepancy in total ALeth value in Summary and Detailed report when Lethality is defined to Entire Cycle in the below defined setup. | Pass |
| 5.3.24 | Defect 2344 - Discrepancy in total ALeth value in Summary and Detailed report when Lethality is defined to Exposure Cycle in the below defined setup. | Pass |
| 5.3.25 | Defect 2345 - Discrepancy in total ALethality value in Summary and Detailed report when Lethality is defined to During Exposure Cycle and Exp Start as Cycle Time and Expo End configured as Exp Time and Qual Start as Manual and Qual Stop configured to Cycle time. | Pass |

Note: Available test results are saved in HPQC Bug Tracking system as an attachment or on Quality network drive

Section 5.3 Tested by



Harjinder Singh

Date 20-June-2017

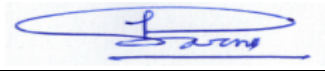
5.4 Regression Testing

Regression testing is performed on the following Test Cases with details defined in **EDN 524-A Appendix to Kaye Validator AVS 1.2.3 Test Plan Rev A.xls**

5.4.1	Verify all the parameters under Assets tile	Pass
5.4.2	Verify all the parameters under Equipment tile	Pass
5.4.3	Verify all the parameters under Preferences, Policies & User Management section in Admin tile	Pass
5.4.4	Verify all the reports generated via AVS Main app for various Qual, Cal & Verification studies conducted	Pass
5.4.5	Verify all the reports generated via AVS RW app for various Qual, Cal & Verification studies conducted	Pass
5.4.6	Verify the audit data under Audit trail	Pass
5.4.7	Verify the tests conducted for Qualification feature	Pass
5.4.8	Verify the tests conducted for Calibration & Verification feature with multiple scenarios	Pass

Note: Available test results are saved in HPQC Bug Tracking system as an attachment or on Quality network drive

Section 5.4 Tested by



Harjinder Singh

Date 21-June-2017

Test Case and Test Data Reviewed by:



Ralf Wottrich

Date: 22-June-2017

6.0 Revision Level

Rev	Comment	Date
0	Initial Draft Release Version	05-June-2017
A	Updated with defect fixes	08-June-2017

Official changes to this procedure will result in reissue of the document with appropriate notation in the Revision Level space above.

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Test Case Pre-Approved by:

Date: 11 June 2017

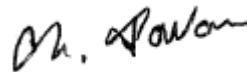
QA:



Ralf Wottrich

Date: 11 June 2017

Engineering:



Pavan Chundi

Final Test Results Approved by:

Date: 22 June 2017

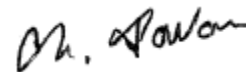
QA:



Ralf Wottrich

Date: 22 June 2017

Engineering:



Pavan Chundi

Date: 22 June 2017

Marketing:



Dennis Plante