|  |
| --- |
| Jacobs Technology Inc. |
| Excel Tools Module Test |

**Revision Log**

|  |  |  |  |
| --- | --- | --- | --- |
| **Author** | **Revision** | **Description** | **Date** |
| Jason Peek | 0 | Original |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Test SLATE Version \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# System Requirements

1. Installed and functioning Test SLATE.
2. Install Excel Log to the Test SLATE application directory on the computer running the Data Storage module (MOC).
3. Place a copy of the Excel Log Template into a known data folder that can be accessed by the Excel Log software (MOC).

# Test Case: Plug In Initialization Pass / Fail \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Start with a clean Test SLATE Master Database or remove all references in your current database to the Excel Log
   1. Mnemonics Table
   2. CmdDelProcesses Table
   3. CmdDelSystemSources Table
   4. Extension Doc Table
2. Start Test SLATE and open/close the Excel Log Editor multiple times. Verify the Excel Log item is added to each of the Tables.
3. Mnemonics Table – One Entry
4. CmdDelprocesses Table – One Entry per Configuration opened.
5. CmdDelSystemSources Table – One Entry per Configuration opened.
6. Extension Doc Table – One Entry per Configuration opened.

**Notes/Findings:**

# Test Case: Excel Tools Editor Pass / Fail \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using System Explorer, verify that “Excel Tools Editor” is available under each Configuration defined in the tree.
2. Create a new configuration and select the Excel Tools Editor.
3. Excel Log
   1. “Share Location”
      1. Use the “Browse” button to select an existing data folder.
      2. Use the “Browse” button to create and select a new data folder.
      3. Verify that you cannot select anything other than a folder using the “Browse” button.
      4. When using the “Browse” dialog, verify that selecting “Cancel” causes the “Share Location” to remain unchanged.
      5. The “Share Location” field is only read-only. Selections must be made using the Browse button.
      6. Help tag is available, informative, and grammatically correct.
   2. Copy to Data Folder
      1. Select and unselect the Check box.
      2. Help tag is available, informative, and grammatically correct.
   3. Select multiple configuration scenarios and save, close, and open the Editor for each.
      1. Verify that all scenarios are stored and retrieved properly.
      2. Each time a change is made the Editor tab signals unsaved changes are present.
      3. Clicking “Copy to Data Folder” and immediately closing the Editor (using the “X”) still saves the last change to “Copy to Data Folder”.
      4. When clicking the “X” when changes have been made without saving, a warning dialog is presented allowing the operator to save.
      5. When clicking the “X” when changes have been made and saved, a warning dialog is not presented.
4. Undock the Excel Tools Editor from the Test SLATE Workspace. Verify the Editor still functions properly.
5. Exit Test SLATE and restart. Verify the Excel Log configurations are still correct.

**Notes/Findings:**

# Test Case: Excel Log Initialization Pass / Fail \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Create a Configuration/Run Definition that contains AI, AO, DI, DO, FI, CH, and CA tags.
   1. Apply a sensor to at least one AI tag.
   2. Modify the 0/1 text for each DI and DO tag
   3. Select to store each Tag to the Group 1 data file.
   4. Create a CH tag named “Excel Log Template” with a default value of the Path and Name of a valid Excel Log Template.
   5. Set the “Character Input Init Option” in the Run Definition to “Default”.
2. Select to use and define a Test Initialization page for the test.
   1. Include one or more “\*” keywords.
3. Run the Test.
4. Verify Excel is opened at the MOC.
   1. Excel Log is included in the Source Status window.
   2. Excel Log produces no errors upon startup.

**Notes/Findings:**

# Test Case: Excel Log General Pass / Fail \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Enter the path and file name to an Excel Log Template.
2. Store Group 1 data.
   1. A new Workbook is opened using the defined Template.
   2. The new Workbook is named using the Data Folder (as shown in “Data Location” on the Test Execution Window) with a “\_D1”.
   3. The new Workbook is stored in the “Share Location” defined in the Excel Log Editor.
   4. The Header Worksheet is filled with Test Information followed by the Header data in the first two rows (Labels = Row 1, Values = Row 2)
   5. The Data Worksheet has Tag labels and units in the first two rows (Names = Row 1, Values = Row 2) in the order of Time, Run Number, Point Number, Selected Tags.
   6. Each Record is added to the Data Worksheet as data is recorded.
   7. Time is recorded correctly.
   8. Run and Point Numbers are recorded correctly.
   9. Tag Data is recorded correctly (in Display EUD)
   10. Numeric Data Types (Time, AI, AO, FI, and CA) are recorded in Excel Number format.
   11. Text Data Types (DI, DO, and CH) are recorded in Excel Text format.
3. Store additional Group 1 data.
   1. New records append to the last recorded data.
4. Start a new Data File (either by Restarting Data Storage or changing the Run Number with the “Create New Data Directory” option selected.
   1. The current Workbook is saved and closed.
   2. A new Workbook is created (see Item 2 above).

**Notes/Findings:**