QuickLoad-Central and QuickEdit
User Guide
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Introduction

Navigating QuickLoad Central
The File Stores tab allows you to add or remove the saved locations where STDF files are stored. You can also select to show files from only one file store, or from all file stores.

From the Filter tab, you can apply filter criteria to narrow the list of files shown on the Dashboard.

The Analytics Dashboard tab, or Dashboard, includes the majority of the available options for working with STDF data.

On the Logs tab, log messages are shown for all operations, including many changes to configuration settings. To clear the log, right-click and choose Clear Log.

Viewing QuickLoad-Central Information
From the File Stores tab, the Filter tab, or the Dashboard, you can click About QuickLoad-Central in the bottom right corner to open the About window. This window shows the software version, your license number, and information about the components of QuickLoad-Central. You can also register a new software license from this window.
Registering a License
1. From the About QuickLoad-Central window, click Register New License.
2. In the Input dialog box, enter your license number.
3. Click OK. Your new license is registered.

Managing File Stores

Adding File Stores
1. Launch QuickLoad-Central. The Getting Started dialog box opens.
2. Click OK. The Choose a folder window opens.
   a. From the File Stores tab, you can also click Add or right-click a file store and select Add File Store.
3. Browse to a location where STDF files are stored.
4. Click Open. The file store is added to the Dashboard.

Removing File Stores
1. From the File Stores tab, click the file store you want to remove.
2. Click Remove. The file store is removed from the Dashboard.
   a. You can also right-click the file store and select Remove File Store.

Managing the File List

Choosing File Stores
To show files from only one file store:
1. From the File Stores tab, right-click a file store and select Show Only Files from This File Store.
2. Files from the selected file store are shown on the Dashboard.

To show files from all file stores:
1. From the File Stores tab, right-click and select Show Files from All File Stores.
2. Files from all file stores are shown on the Dashboard.

Filtering the File List
To apply filter criteria:
1. Click the Filter tab.
2. Enter filter criteria in one or more fields. Fields may be left blank.

Note: Filters will add a wildcard before and after the search strings you enter.
3. Click Apply Filter or press Enter. A filtered list of files is shown on the Dashboard.

To remove filter criteria:
1. Click the Filter tab.
2. Click **Clear Filter**. The filter fields are cleared and all files are shown on the **Dashboard**.
   a. From the **Dashboard**, you can also right-click and select **Remove Current Filter**.

**Selecting Files**
To select a file from the **Dashboard**, select the check box for the file. You can also right-click and choose **Select All Files** or **Unselect All Files**.

**Using the File List Management Menu**
From the **Dashboard**, you can right-click to access the **File List Management** menu. This menu includes the following options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refresh File List</td>
<td>Updates the files shown in the file list</td>
</tr>
<tr>
<td>Reprocess Selected Files</td>
<td>Reprocesses the selected files based on the current configuration settings</td>
</tr>
<tr>
<td>Forget Selected Files</td>
<td>Removes the selected files from the file list</td>
</tr>
<tr>
<td>Add Comments to Selected Files</td>
<td>Opens a dialog box for each selected file; enter a file description</td>
</tr>
</tbody>
</table>

**Editing Lot Attributes**
1. From the **Dashboard**, select the check box for each file you want to edit lot attributes for.
   a. If you select multiple files, the lot attribute values you enter will be applied to all of the selected files.
2. Right-click and choose **Edit Lot Attributes**.
3. From the **Edit Lot Attributes** dialog box, enter values for the following fields as needed:
   a. Lot ID
   b. Sublot ID
   c. Testcode
   d. Wafer ID
4. Optionally, select the **Insert WRR If Missing** check box to insert a Wafer Results Record in any selected file that is missing one.
5. Click **OK**.

**Merging Files**
1. From the **Dashboard**, select the check box for a file.
2. Right-click and choose **QuickEdit Selected Files**.
3. From the **QuickEdit** window, click **File** and choose **Merge STDF**.
4. From the **Open STDF File** dialog, browse to the file you want to merge and click **Open**. The selected file is merged with the file that was already open. Some header information of the selected file may be discarded when the files are merged.
5. Click the save icon to save the merged file.
Changing Configuration Settings

From the Dashboard, right-click and select Configuration, then select the check box for a configuration option to enable it. To disable a configuration option, clear the check box for the option.

If you open a file in QuickEdit and change configuration settings from the Options menu, they will automatically be updated in the Configuration menu of the Dashboard. Likewise, any settings you change from the Dashboard are also updated in QuickEdit.

The Configuration menu includes global settings, PAT Limits, and the following submenus:

- Charts
- File Loading
- File Saving
- File Summary
- Parametric Results
- Tests
- Wafer Bin Map

Global settings, PAT Limits, and the options for each submenu are described in separate sections.

### Global Settings

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Force Superseding of Duplicate X/Y Parts</td>
<td>Data may contain duplicate X/Y combinations, often the result of retesting the same part. When this option is selected, the latest duplicate X/Y parts are shown. When it is cleared, all duplicate X/Y parts are shown.</td>
</tr>
<tr>
<td>Include Original Results of Retested Parts in Counts</td>
<td>When selected, counts will include all results for retested parts. When cleared, counts only include the latest results for retested parts.</td>
</tr>
<tr>
<td>Pregenerate File Statistics</td>
<td>Automatically generates file statistics in the background when you open QuickLoad-Central.</td>
</tr>
<tr>
<td>Read Test Conditions from DTR with COND:name=value,[name=value]...</td>
<td>Shows the test conditions from the Datalog Text Record (DTR) in the data table</td>
</tr>
<tr>
<td>Use File-based Dashboard</td>
<td>See Use File-based Dashboard Options</td>
</tr>
<tr>
<td>Use GMT Instead of Local Time</td>
<td>Uses Greenwich Mean Time (GMT) instead of local time for various date fields</td>
</tr>
</tbody>
</table>

### Use File-based Dashboard Options

The Dashboard shows different columns when Use File-based Dashboard is selected or cleared. Columns in *italics* are shown with either Use File-based Dashboard selection, although the columns may change position.
## Configuring PAT Limit Preferences

1. Right-click and select **Configuration**, then click **PAT Limits**. The Define PAT Limit Preferences dialog opens.
2. Click the list and choose one of the following options for the center point and standard deviation version:
   a. **Center:Mean and Sigma:Standard Deviation**
   b. **Center:Median and Robust Sigma:IQR/1.349**
3. Enter a number in the **Sigma Count** field, or click the up and down arrows to change the number.
4. Click **OK**.

### Chart Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generate Separate Pareto Per File</td>
<td>Shows a separate pareto chart for each selected file</td>
</tr>
<tr>
<td>Include Bin Name in Description</td>
<td>Adds the bin name to the bin number in charts</td>
</tr>
<tr>
<td>Maximize Plot Window Size</td>
<td>Opens charts in maximized windows</td>
</tr>
<tr>
<td>Show One Plot Per Page</td>
<td>Shows one plot per page when saving charts to PDF</td>
</tr>
<tr>
<td>Use Small Point Size in Charts</td>
<td>Shows smaller sized data points in charts</td>
</tr>
</tbody>
</table>

### File Loading Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Always Recreate STDF Summary Records</td>
<td>When selected, STDF summary records are automatically recreated.</td>
</tr>
<tr>
<td>Merge Simultaneously Open Files</td>
<td>When selected, if you open an additional file, it will be merged with the first file you opened. Some header information will be discarded from the second file.</td>
</tr>
</tbody>
</table>

### File Saving Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Save All Test Info in Every Record</td>
<td>When selected, all test information is saved in every record, even if some of the test information is identical for all records.</td>
</tr>
</tbody>
</table>

### File Summary Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Include Lots</td>
<td>Shows lot IDs for each test</td>
</tr>
<tr>
<td>Include Site Results</td>
<td>Shows separate soft bin counts and percentages for each site</td>
</tr>
<tr>
<td>Include Sublots</td>
<td>Shows subplot IDs for each test</td>
</tr>
<tr>
<td>Show Empty Bins</td>
<td>Shows the bin records for empty bins</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Use Current Limits When Recreating Summaries</td>
<td>Recreates summaries using the current edited limits, not the original limits in the file</td>
</tr>
<tr>
<td>Use Hard Bin in Summary and Wafer Map</td>
<td>Shows hard bin data in the file summary and in the wafer bin map (also a Wafer Bin Map option)</td>
</tr>
</tbody>
</table>

**Parametric Results Options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe Pin With Channel Name</td>
<td>Uses the channel name for the pin</td>
</tr>
<tr>
<td>Describe Pin With Logical Name</td>
<td>Uses the logical name for the pin</td>
</tr>
<tr>
<td>Describe Pin With Physical Name</td>
<td>Uses the physical name for the pin</td>
</tr>
<tr>
<td>Display Scaled Test Results</td>
<td>When selected, the scale used to label data in the file will be used in the data table.</td>
</tr>
<tr>
<td>Display Scaled Test Results Using Format String</td>
<td></td>
</tr>
<tr>
<td>Ignore Test Flags</td>
<td>Excludes test flags</td>
</tr>
<tr>
<td>Show Limits as First Rows</td>
<td></td>
</tr>
<tr>
<td>Show MPR Values</td>
<td>Shows Multiple Parametric Record (MPR) values</td>
</tr>
<tr>
<td>Show PF Per Test</td>
<td>Shows a Pass/Fail result for each test</td>
</tr>
<tr>
<td>Sort Tests By Test Order</td>
<td></td>
</tr>
</tbody>
</table>

**Tests Options**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allow Multiple Tests Per Number</td>
<td>Identifies tests by the combination of number and name</td>
</tr>
<tr>
<td>Allow Multiple Tests Per Number But Share Limits</td>
<td>Identifies tests by the combination of number and name, but tests share limits</td>
</tr>
<tr>
<td>Include Test Name in Displayed Test Name</td>
<td>Allows you to sort tests by test name</td>
</tr>
<tr>
<td>Include Test Number in Displayed Test Name</td>
<td>Allows you to sort tests by test number</td>
</tr>
<tr>
<td>Include Units in Displayed Test Name</td>
<td>Allows you to sort tests by unit</td>
</tr>
</tbody>
</table>

**Wafer Bin Map Options**

When all Wafer Bin Map options are cleared, only soft bin numbers are shown in the chart. The options allow you to include the bin count and bin name, or use hard bin data instead of soft bin data.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Include Bin Count in Wafer Map</td>
<td>Shows the bin count in parentheses in the wafer map</td>
</tr>
<tr>
<td>Include Bin Name in Description</td>
<td>Shows the bin number and name in the wafer map</td>
</tr>
<tr>
<td>Use Hard Bin in Summary and Wafer Map</td>
<td>Shows hard bin data in the file summary and in the wafer bin map (also a File Summary option)</td>
</tr>
</tbody>
</table>
**Making Charts**

You can make charts for a single file, or for multiple files at the same time. For some chart types, a separate chart will open for each file; for others, the charts will show combined data for all selected files, grouped by file.

1. From the **Dashboard**, select the check box for each file you want to make a chart for.
2. Right-click and choose an option from the **Make Charts** menu.
   a. For some options, a separate chart is shown for each selected file.
   b. For other options, a combined chart is shown with data grouped by file.
3. From any chart, you can right-click to access options to copy, save, or print the chart. You can also zoom in or out, select auto range, or view chart properties. Some charts have additional options, such as zoom to data or zoom to limits.

For **Combine Plot Types**, select the check box for each type of plot you want to combine in the chart.


For **Box Plot**, **Drift Analysis**, **Gauge R&R**, **Histogram**, **Normal Probability Plot**, **Scatter Plot**, **Statistics**, **Trend Chart**, and **Wafer Parametric Map**, you will enter parameters to determine the chart display.

**Making Charts with Parameters**

1. From the **Select Tests to Include** dialog, select the check box for each test you want to include in the chart.
   a. You can also click **Include All** to include all tests.
2. To group tests, click **Grouping Level 1** and select a column to group by.
   a. Repeat this with **Grouping Level 2** and **Grouping Level 3**, if needed.
3. Enter values for **Graph Label**, **X Axis Label**, and **Y Axis Label**, if needed. You can also leave one or more of these fields blank to use the default values.
4. Select or clear the check box for each of the following options (some options do not apply to all charts):
   a. **Draw spec limits**: shows spec limits on the chart
   b. **Draw PAT limits**: shows PAT limits on the chart
      i. You can define PAT limit preferences by selecting **PAT Limits** from the Configuration menu.
   c. **Filter outliers with sanity limits**: does not show values that occur outside of the high and low sanity limits
      i. Click **View/Edit Sanity Limits** to adjust the high and low sanity limits as needed.
   d. **Filter Part List**: opens a dialog where you can select parts to exclude
   e. **Draw separate plot for each group**: shows a separate plot for each group, rather than showing all groups on one chart
   f. **Show one plot at a time**: shows each chart separately and provides Next Chart and Prev Chart navigation buttons, rather than showing all charts at once
   g. **Label group values**: shows a label with the values for each group
5. For **Histogram**, you must select one of the following options:
a. Fast Bin Calculation:
b. Optimal Bin Calculation:
c. Specify Bin Count: enter a value for the bin count
d. Specify Bin Width: enter a value for the bin width

6. Histogram also includes the Draw Normal Curve option. Check the box for this option if you want to show the normal curve on the chart.

7. Normal Probability Plot and Trend Chart include the Draw Groups Sequentially option. Check the box for this option to show groups in a sequential order.

8. Scatter Plot includes several Fit Line Using Method options. Choose from the following options to connect points or fit a line to the data.
   a. No Line: does not show a line
   b. Connect Points: shows lines connecting points along the x-axis.
   c. Ordinary Least Squares Regression:
   d. Polynomial Regression:
   e. Power Regression:
   f. Gaussian Distribution:

9. For Gauge R&R you must have multiple files loaded together but not merged. Parts are implicitly compared and you should choose one or more other groups, for example tester and test site.

10. For Drift Analysis, load two or files with data for the same partids. Group by input file, or equivalent. The analysis will draw the trend chart with additional fields characterizing the drift between group values at the bottom of the chart.

11. Click OK.

Managing Auto-generation of Extracts

From the Manage Auto-generation of Extracts menu, you can set the root location for extracts and select which extracts will be auto-generated when you launch QuickLoad-Central.

Setting the Root Location for Extracts

1. From the Dashboard, right-click and select Set Root Location for Extracts from the Manage Auto-generation of Extracts menu.
2. From the dialog box, browse to the folder location where you want auto-generated extracts to be stored.
3. Click Open.

Enabling Auto-generated Extracts

When you enable an auto-generated extract option, the extract is immediately auto-generated for each file and saved to the root location. Extracts are also processed for each new file you add, as long as the extract option is still enabled.

1. From the Dashboard, right-click and select the check box for an option in the Manage Auto-generation of Extracts menu.
2. To enable another auto-generated extract option, right-click and choose to the Manage Auto-generation of Extracts menu. Select the check box for the auto-generated extract you want to enable.

Viewing Extract and Report Files
1. From the Dashboard, select the check box for each file you want to view extract and report files for.
2. Right-click and choose Show Generated Extracts and Reports. The Extract and Report Files window opens, showing a list of files.
3. Right-click a file and select Open File or Open Folder Containing File.

Exporting Data
You can select files and send data to Excel or JMP. You can also export data from selected files to a CSV file or export the current dashboard data in CSV format.

Sending Data to Excel
1. From the Dashboard, select the check box for each file you want to send to Excel.
2. Right-click and choose Send Data to Excel, then choose a report option. Table... lists the available reports.
3. The data is saved to a CSV file in a subfolder of your root location for extracts, and QuickLoad-Central attempts to open the file in Excel.

Sending Data to JMP
1. From the Dashboard, select the check box for each file you want to send to JMP.
2. Right-click and choose Send Data to JMP, then choose a report option. Table... lists the available reports.
3. The data is saved to a JSL file in a subfolder of your root location for extracts, and QuickLoad-Central attempts to open the file in JMP.

Exporting Data to a File
1. From the Dashboard, right-click and select Export Data to File, then choose Parametric Results.
2. From the Save window, browse to the folder location where you want to save the file.
3. Enter a file name.
4. Click Save.

Exporting the Dashboard
1. From the Dashboard, right-click and select Export Dashboard.
2. From the Export Dashboard window, browse to the folder location where you want to save the current dashboard data.
3. Edit the filename as needed and add a file extension, such as .csv or .txt.
4. Click Save. An Export Complete message is shown.
Editing Files
To open files for editing from the Dashboard, select the files, right-click and choose QuickEdit Selected Files.

The first time you open a file with QuickEdit, the File Summary table is shown. The Parametric Results, All Results, Hardware Bin Records (HBR), and Software Bin Records (SBR) tables also open by default. The tables that are shown when you close a file will be shown the next time you open a file.

To open additional tables, right-click and select an option from the View Report Table menu or the View STDF Record Type Table menu.

To close a table, right-click it and select Close Current Table.

When you right-click a table, you also have options to find a column; sort table rows; cut, copy, and paste data; and export data to a CSV file.

From the File Summary table, you can right-click a parametric test and choose Statistics, Box Plot, Histogram, Normal Probability Plot, or Trend Chart to view the selected chart for the test.

From other tables, such as Parametric Results, you can right-click a record and choose options to edit or delete it. The Edit option opens a dialog box containing the fields you can edit within the record.

Managing Files in QuickEdit

Opening New Files
1. Choose Open from the File menu or the open icon from the toolbar.
2. Browse to the file location and click Open.

Opening Recent Files
1. Choose Open Recent Files from the File menu or from the toolbar.
2. Select the check box for each file you want to open and click Open Selected Files.

Viewing and Editing STDF Files

Sorting Data
To sort data in the File Summary table, click any column header. For all other tables, you can also sort by multiple columns.

1. Right-click and choose Sort Table Rows.
2. You can click Restore Original Order to go back to the original sort order of the file, or click Reverse Original Order to reverse the original sort order of the file.
3. To sort by multiple levels, choose an option from the Column For Next Sort Level list and click Add Sort Level.
   a. You can select the Sort Z-A check box to add Z-A sorting for the selected column.
4. To remove one or more rows from the sorting list, select the check boxes for each one in the Delete column and click Delete Selected Rows.
5. Click OK.

Editing Data
1. Choose a tab.
2. Right-click in any cell and choose Edit [record type]. For example, choose Edit MIR.
3. A window opens, showing editable fields sorted in the order they appear in the file. Edit values as needed and click Save.

Adding Data
1. Choose Create Record from the Edit menu.
2. Choose the type of STDF record you want to create.
3. Enter values for the new record.
4. Click Create.
5. Choose a location within the file for the new record.
   a. If needed, you can edit the values in a record after you create it.

Recalculating Statistics after Editing Data
1. From the View | Reports menu, choose Test Descriptions.
2. To edit the test name, number, limits or unit, click the corresponding cell, edit the value, and then click in another cell.
3. To remove tests, highlight all or part of the rows for the tests you want to delete. Right click and choose Delete Selected Tests.
4. From the Options | File Summary menu, select Use Current Limits When Recreating Summaries.
5. From the File menu, choose Recreate Summary Records. All pass/fail information for the test is recalculated using the new limits.
6. From the File menu, choose Save As to save your changes into a new file.

Saving New Files
You can save a new file in STDF, CSV, XLSX, JSL, or HTML format.
1. From the File menu, choose Save As. You can also click the save button on the toolbar.
2. In the new window, enter a file name and choose the location where you want to save the file.
3. Click Save.

Creating STDF from Other Formats
Creating from CSV
QuickEdit can create STDF files from CSV, but only if the CSV follows an expected structure. The structure matches that created by exporting Parametric Results to CSV from QuickEdit, with a few
additional fields available as noted below. If you need an example file to create this format, please contact us.

1. Click QuickEdit Advanced menu and choose Make STDF From CSV
2. Choose the csv file name
3. After the file loads choose File menu, Save As to save the new data as an STDF. Or you can proceed with analysis.

The following additional column names can be used in the CSV that are not currently in the Parametric Results export format:

- start_t (file test start time)
- finish_t (file test finish time)
- tstr_typ (tester type)
- cabl_id
- card_id
- cont_id
- dib_id
- extr_id
- hand_id
- lasr_id
- load_id

Tips for successful use of the CSV to STDF tool

- Header values (ie values not specific to a part such as part id or x location or to a test result) are only read from the first row in the file that represents a part
- If you export Parametric Results to csv you will see the format for including test limits and units in the csv. CSV to STDF will read this same format
- You can add additional test columns at the end of the file before loading it back into QuickEdit. This is an excellent way to add calculated values to an STDF and chart them in QuickEdit.

Creating from Other Formats
The API underlying QuickEdit is designed to allow easy incorporation of other data formats, for example from non-STDF testers and foundry Etest files. If you are interested in adding one of these contact us at sales@sprysoftware.net.