Ellison Technologies.
Enhanced Reporting Software Manual

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How to Use This Manual

Install the Enhanced Reporting Software by following the step-by-step directions CAREFULLY in Chapters 2 & 3. Then follow the steps in Chapter 4 - Interfacing with Calypso to link Calypso programs to the Enhanced Reporting program. The manual shows you how to use all of the functions available in the software and answers common questions in easy to follow step-by-step instructions.

Chapter 1 – Usage Notes and Tips Read for important information about the software

Chapter 2 - Program Installation Install Enhanced Reporting Program following these steps

Chapter 3 – ReportLauncher Installation Launch Enhanced Reporting Software automatically after Calypso measurement plans

Chapter 4 - Interfacing with Calypso Link Calypso programs to the Enhanced Reporting Software

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1. Usage Notes and Tips

Usage Agreement, Warranty, and Legal Disclaimer

Installation and use of the J&H Machine Tools Enhanced Reporting Software indicates your acceptance of this agreement. If you choose not to be bound by this agreement, please return the unopened software and manual to J&H Machine Tools for a complete refund.

This software is licensed for use on one CMM. For additional licenses, please contact J&H Machine tools for more information.

We guarantee that the software on the provided CD is functional and will interface with your Zeiss Calypso Measurement Software version 3.8.xx through 4.0.xx. If there is a defect on the CD or a software defect in the Enhanced Reporting Software that prevents usage, please contact J&H Machine Tools for a free replacement. If after exhausting all troubleshooting routines provided in this manual and phone support with J&H Machine Tools, and there is a software defect preventing interface with your Zeiss Calypso Measurement Software, please return the installation CD and Manual to J&H Machine Tools for a complete refund. This warranty expires after 30 days of receipt of this software.

You accept all risks arising from the use of this software. In no event can J&H Machine Tools, Inc. be held legally responsible for any damages, data loss, data misrepresentation, or any other condition arising from the use of this software. We do not warranty or guarantee that the software is free from errors of any sort. This agreement of Limitation of Liability and Indemnification for J&H Machine Tools, Inc. is effective for the life of the software.

Impact of Future Zeiss Calypso Upgrades

There is a possibility that a future revision of the Calypso measuring software from Zeiss may not be compatible with the Enhanced Reporting Software. We have no control over how Zeiss chooses to format their table file output. Therefore, it is strongly recommended that upon every new installation of the Enhanced Reporting Software and whenever you upgrade your Calypso to a new revision, you should verify the results represented with this program. A standard Calypso-generated report should be compared the Enhanced Reporting Software report to assure that all the data was transferred properly.

If there is a compatibility issue with a future release of Calypso, a new update the Enhanced Reporting Software will be made available to fix the problem as soon as possible. An email notifying you of the new update will alert you when an update is available. See the "Enhanced Reporting Software Updates" section below.
“The Big Picture” of what the Enhanced Reporting Software Is

An efficient way of data handling and presentation is extremely important when using a CMM. The volume of information a CMM can provide when used properly can be overwhelming. A simple printed report after an inspection showing the results of the inspection simply is not enough to utilize the power that a CMM can provide your company.

The J&H Machine Tools Enhanced Reporting Program works directly with Calypso table files to generate single-part inspection and basic statistical reports. This program is a tool to complement the already powerful inspection reports created by the Zeiss Calypso software.

The Enhanced Reporting Software was designed based on the requests and needs of J&H Machine Tools’ Zeiss Calypso customers. It is designed to give operators a compact and easy-to-read report after an inspection run on a CMM. The reports can quickly be sorted and printed based on the operator’s needs with a button click. The operators also have an easy way to view and print basic statistical information about their inspections. The Enhanced Reporting Software is NOT designed as a primary statistical package for process control. The statistical analysis and charts included with this software are designed to give operators important information about their measurements in an easy to use and understand format. Output functions in the software allow for easy data export to one of the many statistical packages available on the market today.

Enhanced Reporting Software Updates

All users of the Enhanced Reporting Software are offered free software updates. Your email address will be added to a general distribution list so you will get notification when an update is available. Note that prior to installing an update, the original software must be installed properly by carefully following the installation procedures in this manual if you have never installed the software before. To install an update to the software, please follow the below directions:

2. Click the “Enhanced Reporting Updates-J&H Software” link
3. You will be prompted for a password. The notification email informing you of the update will contain the password.
4. When the password is entered correctly, click “JH Enhanced Reporting Software Program - For Current User Upgrades Only” link again.
5. Choose to save the program to disk. If you are on your CMM computer, load it directly into the c:\ztemp\ directory and overwrite the old version of the program. If you are not on the CMM computer, save it to disk and then move it to the CMM c:\ztemp\ folder to overwrite the old version.
6. The date at the bottom right of the splash screen when the Enhanced Reporting Software is started should reflect the current release date.

Software Runtime Help

Most buttons in the Enhanced Reporting Software have “bubble help” that appears when you pause the mouse pointer over a button. Also, look for “INFORMATION” buttons on some screens to help you with functions on that screen. These runtime help features make the program easy to use.
Data Handling Notes

Since the Enhanced Reporting Software stores a record of every inspection run, it is important to occasionally backup the data on the system to a network drive or CD and remove old data from the active results directory. Although file size is extremely small for each measurement record, having thousands of measurement records in the active “results” directory can cause problems. Proper use of this program is intended to aid viewing and interpretation of current inspection reports and to aid the understanding of the current inspection process. Very old files not associated with your current manufacturing process needed only for archival purposes should be stored to a network drive or CD and removed from the active “results” directory.

Unless used by another software package, the original Calypso table files containing the measurement results are not needed. Use the “UNUSED FILES” function in the “DELETE FILES” screen available from the “ARCHIVES” screen to remove unnecessary table files in your active “results” directory.

Statistical Calculation Notes

The Cp and Cpk values on statistical analysis reports are shown for your reference. Cp is calculated using the below formula:

\[
\text{Cp} = \frac{\text{tolerance range}}{6 \times \text{sigma}}
\]

Cpk for two-sided tolerances is calculated as the minimum of the two below formulas:

\[
\text{Cpk} = \min\left(\frac{(\text{USL} - \text{average})}{3 \times \sigma}, \frac{\text{average} - \text{LSL}}{3 \times \sigma}\right)
\]

Cpk for single-sided tolerances is calculated using the below formula:

\[
\text{Cpk} = \frac{(\text{USL} - \text{average})}{3 \times \sigma}
\]

In the above equations, sigma is the value of standard deviation calculated by Microsoft Excel using the STDEV() function. USL and LSL are the upper and lower specification units, respectively.

Statistics shown on any report or chart are based on the last upper and lower specification for any characteristic. If the specification limits change for the shown data, a warning message will alert you of that condition. For True Position characteristics, statistic calculations (like Cp and Cpk) are not meaningful and are shown for reference only.

Feedback and Improvement Requests

If you have any ideas on how to improve this software or have any general comments, we are glad to hear them and will make an effort if feasible to include your ideas in a future release of the software. Please email these items to ryan.stauffer@jhtools.com.
2. Program Installation

Installation Preparation

Before you start installation, be sure to do the following:

1. Make sure Microsoft Excel 97 (or newer) is installed on the computer
2. Close all applications

Installation Instructions

**NOTE:** You may be asked to restart your computer during installation. If you are prompted to restart more than once, the installation program is not compatible with your version of windows. Please follow the alternate installation instructions in the Troubleshooting chapter (Chapter 9). After the alternate installation, resume this procedure at Step 10.


After following the installation preparation directions, Enhanced Reporting can be installed on the computer. Install the Enhanced Reporting Software on the same computer as you have Zeiss Calypso installed on.
After download of ERSsetup.exe, run that installation program.

Click NEXT to continue and agree to the terms of use.

Choose the installation directory. C:\ztemp\ is recommended. Click NEXT.
5 Choose if you want a desktop icon or quick launch icon. Click NEXT.

6 Press the INSTALL button.
After installation is finished, you may be given the option to "Launch the Enhanced Reporting Software". This is not needed at this time. Click **FINISH**.

*Installation of the Enhanced Reporting Software is now complete.*
3. Installing ReportLauncher

ReportLauncher Installation

1. ReportLauncher should be installed automatically as part of the standard Enhanced Reporting Software installation. If ReportLauncher.exe is not in the same directory as the Enhanced Reporting Software, you will need to download a copy of the program from www.jhtools.com and place it in your Enhanced Reporting Software directory (typically c:\ztemp).

2. Open Windows Explorer and go to the Enhanced Reporting Software directory (usually c:\ztemp). In the directory window, double-click ReportLauncher.exe to open the launcher.

3. If you have not already, you will be asked to move the ReportLauncher program to the directory where the Enhanced Reporting Software is installed (usually c:\ztemp).

4. Click OK.

5. Type in the path name for the directory where the Enhanced Reporting Software is installed. This is usually c:\ztemp.

6. After the correct path is entered, Click OK.

7. Type in the path name for the directory where the reportinfo.txt file is located. This is usually c:\ztemp\reportinfo.txt and is the same directory as the Enhanced Reporting Software.
8. Click OK

9. In the ReportLauncher Initial Setup Information window, click the search icon to browse to the Calypso results directory.

10. After the correct results directory is selected, Click OK

11. Click OK in the ReportLauncher Initial Setup Information window

12. Click OK to the remaining widows. This will close ReportLauncher.


Basic installation is now complete.
Desktop Shortcut Creation:

If you wish, a shortcut can be created to ReportLauncher and Enhanced Reporting Software by the following procedure:

- Start Windows Explorer by right-clicking on the Start menu button and choosing Windows Explorer. Go to the Enhanced Reporting Software directory (usually c:\ztemp).
- Right click on ReportLauncher.exe and choose “Send to > Desktop (Create shortcut)”
- Right click on Report.exe and choose “Send to > Desktop (Create shortcut)”

Shortcut icons to the programs will appear on your Windows Desktop.

Startup Shortcut:

It is recommended that ReportLauncher be started automatically by Windows at System startup. Otherwise, the operator must remember to turn on ReportLauncher each time the computer has been restarted.

To configure ReportLauncher to start at Windows startup,

- Open Windows Explorer (if not already open) by right-clicking the Start menu button and choosing Windows Explorer. Go to the Enhanced Reporting Software directory (usually c:\ztemp).
- Right-click on the new “Shortcut to ReportLauncher” file and choose “cut.”
- In Windows Explorer, navigate to C:\Documents and Settings\All Users\Start Menu\Programs\Startup. In Startup, right-click in the blank space and choose “Paste.” The next time Windows is restarted, the ReportLauncher should start automatically.

NOTE: In the Documents and Settings folder, there may be more than one user folder, so you may have to try each user before finding the one used during startup.

To turn off ReportLauncher at any time, hit CTRL-ALT-DELETE, choose Task Manager, Select ReportLauncher in the Task Manager window and click “End Task”
Calypso inspection results are imported into the Enhanced Reporting Software from Calypso’s standard Table File format. This chapter explains the steps how to read the data automatically and manually after an inspection.

4. Interfacing with Calypso

**Turn on Table Files**

**IMPORTANT:**
It is recommended that your Calypso programs do not have spaces in the name. If your program name has spaces, you can rename the plan. In Calypso, use File > Save As and replace spaces with underscores. If your program name does have spaces, you can only use the Enhanced Reporting Software with ReportLauncher.

Never rename your Calypso inspection plans in Windows Explorer.

Table files must be turned on for each Calypso program that will use Enhanced Reporting.

1. In Calypso, Resources > Results to File...
2 Turn on table files
   A Next to Table File, click On
   B Click OK

Each time the Calypso program runs, three tables files are made:
programname_#_chr.txt
programname_#_fet.txt
programname_#_hdr.txt

Until processing, table files are stored in the directory …/Calypso/home/om/workarea/results/.

Measurement data is read into the Enhanced Reporting Software in one of three ways. You must only follow ONE of the following procedures:

• Automatic Data Transfer with ReportLauncher

• Automatic Data Transfer with PCM option in Calypso

• Process Table Files manually

Step by step instructions for each procedure are presented in the next sections. You only have to follow ONE setup procedure.

NEW USERS should follow the setup for automatic data transfer with ReportLauncher.
Automatic Data Transfer with ReportLauncher

1. Ensure ReportLauncher is running. ReportLauncher must only be started once after computer startup. If ReportLauncher is not automatically started at Windows startup, you can start it by double-clicking the shortcut on the Windows Desktop or the ReportLauncher icon in the Enhanced Reporting Software directory (usually c:\ztemp).

2. Perform the Calypso inspection program. Make sure that the Table Files box is checked in the Results to File section of the Calypso Run Screen.

3. The Enhanced Reporting Software should open automatically at the end of the inspection program, showing the measurement results.

4. In the Enhanced Reporting Software, press “Setup” and ensure all settings are correct for your program.
A. Click on the Search Directory icon to the right of the field and navigate to your Calypso results directory. Usually, this directory is ...\Calypso\home\om\workarea\results\ 

B. By default, Enhanced Reporting takes the three table files generated per run, deletes them, and processes them into one file. To save your original table files, click on the Search Directory icon and navigate to a folder. Otherwise, leave this blank if you do not want to save the original files.

C. Click on the Search Directory icon and navigate to your program name. Usually, programs are in the directory ...\Calypso\home\om\workarea\inspections\ 
If the program name has spaces in it, rename the program in Calypso (using File > Save As) without spaces or using "_".

D. Click the Search Directory icon to include a logo graphic. The file type must be a bitmap (.bmp extension) and ideal image size is 225 x 100 pixels.

E. Type a title that will appear at the top of report screens.

F. Type a part number that will automatically increment each run. This is NOT the same incremental part number in Calypso.

G. Use the drop down and select the number of decimal places to appear on the reports.

H. Select inch or metric units for the reports. These units are independent of Calypso’s Workroom Units.

I. Click OK.
Automatic Data Transfer with PCM

By following this procedure, the Enhanced Reporting Software will automatically be launched after each Calypso inspection. The latest inspection results will be displayed in the Enhanced Reporting Software.

NOTE: Do not use this method if you are running ReportLauncher

1. Start the Calypso Enhanced Reporting Software again  
   Start > Calypso Enhanced Reporting Program > Calypso Enhanced Reporting Program

2. Click OK to any messages.

3. The Enhanced Reporting software will open up as shown below  
   Click Setup
4. The Setup screen (yellow) must be filled out for every program.

---

A. Click on the Search Directory icon and navigate to your Calypso results directory. Usually, this directory is ...

B. By default, Enhanced Reporting takes the three table files generated per run, deletes them, and processes them into one file. To save your original table files, click on the Search Directory icon and navigate to a folder. Otherwise, leave this blank if you do not want to save the original files.

C. Click on the Search Directory icon and navigate to your program name. Usually, programs are in the directory ...

D. Click the Search Directory icon to include a logo graphic. The file type must be a bitmap (.bmp extension) and ideal image size is 225 x 100 pixels.

E. Type a title that will appear at the top of report screens.

F. Type a part number that will automatically increment each run. This is NOT the same incremental part number in Calypso.

G. Use the drop down and select the number of decimal places to appear on the reports.

H. Select inch or metric units for the reports. These units are independent of Calypso’s Workroom Units.

I. Click OK.
5. Click OK. The Setup screen (yellow) will close

6. In the Calypso program, click on the Characteristics list

7. Make sure no characteristics are highlighted and right click in the gray area and select Parameter. If you get a message from Calypso stating "OPTION PCM NOT AVAILABLE" please call Zeiss support at (800) 814-1322 and inquire about enabling the PCM option for your Calypso.
8. In the Postsettings (bottom half of the window), type the following three lines (This example is for a Calypso Inspection program named **program4345**):

```bash
systemCall("c:\ztemp\program4345copy.bat")
setRecordHead("partnbinc",1)
systemCall("c:\ztemp\report.exe")
```

Pay close attention to upper and lower case letters, quotes, and commas. Do not add extra spaces. The three lines must be entered exactly as shown. Only the program name in the top “systemCall” line changes. The “setRecordHead” and bottom “systemCall” lines must be absolutely correct.

If these lines are incorrect, the Enhanced Reporting Software will not automatically run.

Click OK
9. Run your program as normal in Calypso. Make sure that the table file is turned on. If not, see instructions on how to Turn on Table Files at the beginning of Chapter 4.

10. After your program finishes, Enhanced Reporting will automatically process the table files and the Main Report screen (blue) will open with data after each run.
Process Table Files Manually

Table files can be manually processed any time after Calypso Inspection runs are completed and Table Files are created.

1. Start the Calypso Enhanced Reporting Program if it is not already open.
   Start > Calypso Enhanced Reporting Program > Calypso Enhanced Reporting Program

2. Click OK to any messages.

3. The Enhanced Reporting software will open up as shown below
   Click Setup
4. The Setup screen (yellow) must be filled out for every program.

A. Click on the Search Directory Icon and navigate to your Calypso results directory. Usually, this directory is `\Calypso\home\om\workarea\results\`.

B. By default, Enhanced Reporting takes the three table files generated per run, deletes them, and processes them into one file. To save your original table files, click on the Search Directory icon and navigate to a folder. Otherwise, leave this blank if you do not want to save the original files.

C. Click on the Search Directory icon and navigate to your program name. Usually, programs are in the directory `\Calypso\home\om\workarea\inspections\`. If the program name has spaces in it, rename the program in Calypso (using File > Save As) without spaces or using ".".

D. Click the Search Directory icon to include a logo graphic. The file type must be a bitmap (.bmp extension) and ideal image size is 225 x 100 pixels.

E. Type a title that will appear at the top of report screens.

F. Type a part number that will automatically increment each run. This is NOT the same incremental part number in Calypso.

G. Use the drop down and select the number of decimal places to appear on the reports.

H. Select inch or metric units for the reports. These units are independent of Calypso's Workroom Units.

I. Click OK.
5. Click OK. The Setup screen (yellow) will close

![Calypso Report Program](image)

Reporting Setup Information for program4345 has been updated.

6. In the Main Report screen (blue), click Import

![Machine Tools](image)
7. Follow the instructions in the Process Data Files screen (orange)

4) Press the "OK" button.

A. Click on your program name (in this example, the program is called program4345).
B. Click on the Table Files icon
C. Use the shift or control key to highlight the table files that you want to process for this program.
D. Click OK

8. The message indicates that only the last file will show on the report screen although multiple files were selected for processing. Click OK
The Main Report screen (blue) will open with data. If multiple Table Files were selected for processing, only the last results will be shown on the main screen. Additional results can be seen using the "Archive" function. (See Chapter 7)
In the main report screen (blue), the data in the report can be sorted using the buttons in the Report View section. Characteristics can be sorted like in the Calypso program, out of tolerance, alphabetically, and by percentage of deviation.

5. Report View

In the main report screen (blue), the data in the report can be sorted using the buttons in the “Report View” button group.

**Default Order**

Characteristics are listed in the same order as they appear in the characteristics list of the Calypso program.
Out-of-Tolerance Report

Only out of tolerance characteristics are listed.

Report Sorted Alphabetically

Characteristics are listed alphabetically.

Report Sorted by Deviation Percentage

Characteristics are listed by deviation percentage of (most deviation at top)
The Enhanced Reporting Program has many output and analysis options including export to Excel, generation of basic statistical data and charts, and creation of printed reports.

6. Output and Analysis

Output and Analysis options are available in the “Options and Analysis” button group.

Output to Excel (on Report View screens)

The data from the main report screen (blue) can be exported to Excel. The order of the data depends on how the data was sorted from the Report View section. This data is before any statistical analysis.

1. To export the data as seen on the main report screen (blue), click on the icon To Excel
2 Format in Excel?

Do you want color formatting and header information in the Excel report?

[Yes] [No]

Answer Yes to have header information with color formatting at the top of the Excel report.

The Excel report reflects how the data was sorted in the Report View section:

- Full Report
- Out-of-Tolerance Report
- Report Sorted Alphabetically
- Report Sorted by Deviation Percentage

Answer No for just data

You may save your file in Excel if desired.

In Excel, select from the dropdowns:
File > Save
Print (on Report View screens)

Depending on how the data was sorted from the Report View section, the data from the main report screen (blue) can be printed. The report looks exactly the same as the Excel output with header information with color formatting. The Enhanced Reporting Software always prints to the computer’s default printer.

Basic Statistical Analysis

The Enhanced Reporting Software is NOT designed as a primary means to calculate your process statistics. The statistical analysis and charts are designed to give operators important information about measurements in an easy to use and understand format.

Data can be easily exported out of the Enhanced Reporting Program using the “To Excel” option. This exported Excel data can be used in most advanced statistic packages.

Basic Statistics Screen

A. From the drop down, choose the type of statistical chart to display (Run, Sigma-Range, or Distribution Chart).
B. Click on characteristics from the list to display in the chart.
C. Use the Option Buttons to select specific runs to display, export data to Excel, view summaries, print the displayed chart, or close the screen. See Chapter 6 – “Option Buttons” for more details.
D. Re-click the Characteristics List after each change to refresh and update the chart display.

Note: Statistics are based on the last upper and lower specification for any characteristic. If the specification limits change for the shown data, a warning message will alert you of that condition.
Option Buttons

The option buttons are always available in the lower left corner of the Basic Statistical Analysis screen for ALL charts.

Option Buttons – Selection

Select specific runs to display based on incremental part number and header information. Header information must have been previously specified in the More Setup screen for the current Calypso plan.

A. Enter the beginning incremental part number to display.
B. Enter the end incremental part number to display.
C. Type or choose from the header field drop down(s) to only show runs with this specific header information. In the above example, only runs from Fixture Station A will display.
D. Click Information for more on screen descriptions and help.
E. Click Reset Lists to clear out the header field drop downs.
Option Buttons – To Excel (on Statistical Analysis screens)

Export data to Excel based on the selection parameters previously chosen (described before). Select all or specific characteristics and what statistical data to export.

A. Choose which characteristics to export to Excel. Use Shift or Control to select certain characteristics or click the Select All Characteristics button below the list to choose all characteristics.

B. Check boxes next to the statistical data to export.

C. If specific runs were not selected before, click Selection and follow directions (as described for the Selection button before).

D. Click Information for more on screen descriptions and help.

E. Click Cancel to exit out of this screen without exporting data to Excel.

F. Click OK to export the data to Excel.

To save the created Excel file, select File > Save within the Excel program, if desired.
Option Buttons – Summary
Summary provides Range, Range % of tolerance, Cp and Cpk data for each characteristic for all or specified runs. The data can be sorted alphabetically, by range, percentage of range over tolerance, Cp, and Cpk. The summary data can be exported to Excel or printed.

Answer Yes to the question regarding the amount of time needed to complete calculations if asked.

Option Buttons – Print (on Statistical Analysis screens)
Prints the current chart as viewed in the Basic Statistical Analysis screen. Print always uses the computer’s default printer.

Option Buttons – OK
OK closes the Basic Statistical Analysis screen.
Run Chart

The Run Chart displays the measurements of ONE characteristic over time.

1. From the chart selector drop down, choose Run Chart
2. Click on one of the characteristics from the list.
3. The chart fills in with upper and lower tolerances shown as red lines on the chart. Individual data points are plotted with older data starting on the left and newer data on the right. The legend below the chart explains the point colors.
4. Until a point is clicked, this window displays a list of the measurement actuals. After a point is selected (Left Clicked, as shown above), the information window in the bottom right corner displays information for data point clicked in the chart including the measured value (result), run number, data record time, and header information (if any). A leader line is drawn from the information window to the selected point. Clicking on the white information window expands and contracts the size of the window.
5. Use the option buttons as with the other charts. See the previous Option Buttons section for more details.

Run Chart – Interactive Chart

Left click a data point to select an individual data point.
Right click on the selected data point and the question appears “Do you want to change how run ## will be used in SPC calculations?”

YES: The data point will be masked and NOT used for SPC calculations. Masked points turn yellow.
NO: The question appears, “Do you want to PERMANENTLY DELETE run ##?” Note: This option is not available in certain OPERATOR MODES (see Chapter 8).

YES: The data point (includes all characteristics for this run not just the one in this chart) is deleted after answering OK to the confirmation question.
NO: The question appears, “Do you want to set ALL DATA to be used in statistics?”
YES: All masked data is unmasked so ALL data will used for SPC calculations.  
NO: No changes will occur.

Double click a data point and the question appears, “Do you want to plot data to the right of this point?”
YES: Only data points to the RIGHT of the selected data point are used for SPC calculations. The Run Chart is refreshed showing only data points to the RIGHT of the selected data point.  
NO: The question appears, “Do you want to plot data to the left of this point?”
YES: Only data points to the LEFT of the selected data point are used for SPC calculations. The Run Chart is refreshed showing only data points to the LEFT of the selected data point.  
NO: The question appears, “Do you want to display all data points?”
YES: All available data points are displayed on the Run Chart and are used in statistical calculations.  
NO: No changes will occur.

Run Chart – Interactive Information Window

Click on a data point to select it.

[>] Steps one record to the right.  
[<] Steps one record to the left.  
[←] Replaces the Information Window with the list of measured data for all of the runs. To reactivate the Information Window, click on a data point.  
[±] Allows data comparison. Click on a second data point (a second leader line will appear) and the difference between the two values is calculated. To turn off data comparison, click [±] again.

Click the Information window itself to expand it to view information out of view of the window. Click the window again to return to normal size.
Sigma-Range Chart

The Sigma-Range chart displays up to seven different characteristics on one chart. The chart shows the range of all selected measurements, specification limits, averages, nominal, and sigma values for the chosen characteristics. The sigma values show the expected range of measurements in a large sample, assuming a normal distribution of measurements. The expected percentage of measurements between plotted sigma values is shown in the legend of the Sigma-Range Chart. Under each plotted section is a grid of numeric statistical information for the selected characteristic.

1. From the chart selector drop down, choose Sigma – Range Chart
2. Click on characteristics from the list
3. As you click on different characteristics, the grids at the bottom of the screen fill in. After 7 characteristics are chosen, the grid is cleared and begins refilling from the left side.
4. Use the option buttons as with the other charts. See Chapter 6 – Output and Analysis – “Option Buttons” for more details.
Distribution Chart

The Distribution Chart is a simple histogram representation of the measurement data of one characteristic. The frequency of measurement occurrences between a specified number of ranges are plotted along with a “bell curve” showing the normal distribution for the characteristic’s measurements.

1. From the chart selector drop down, choose Distribution Chart
2. Click on one characteristic from the list to fill in the chart.
3. Click on a histogram bar in the chart to show details about that selected bar.
4. The information window will display the range and the number of measurement occurrences represented by the bar. A leader line from the information widow to the selected bar will also be displayed.
5. From the drop down, change the number of histogram intervals. The Histogram Interval Step Width is the range of measurements represented with each frequency bar of the histogram.
6. Use the option buttons as with the other charts. See Chapter 6 – Output and Analysis – “Option Buttons” for more details.
Target Chart

The Target Chart is ONLY available for True Position characteristics from the Run Chart.

The chart shows the “scatter” of feature center points within the circular tolerance band of the True Position characteristic. The actual position result, tolerance, center coordinates, and shift to nominal for the selected result are shown on the target chart as well as the nominal center point and average shift for back to nominal for all shown results. This information is very useful when determining offsets for machining setup of a hole position.

You must report Additional Positional Result in Calypso by choosing Resources > Characteristic Settings Editor > Additional Position Result and Set to ON.

Results in the Run Chart from normal statistic calculations (like Cp and Cpk) are not meaningful for True Position.

1. From the chart selector drop down, choose Run Chart.
2. Check the box next to “Show True Pos. Target Charts” if it is unchecked.
3. Click on one true position axis characteristic (true position characteristics that end in ".x" or ".y" or ".z") from the list. To show the true position axis characteristics, you must turn on Additional Position Result in the Calypso program.
4. The true position Target Chart appears in a new window.

Note: To stop the display target charts from automatically appearing while scrolling through run charts, uncheck the “Show True Pos. Target Charts” checkbox.
If MMC or LMC has been specified in the Calypso position definition, the bonus tolerance is visible on the chart. A new tolerance zone circle is drawn for each point. As the tolerance changes based on the amount of bonus, the diameter of the drawn tolerance for each point also changes. The color of the each tolerance zone is matched with the color of the corresponding center point.

The color scheme of the tolerance band and center points is random. If the colors are hard to see, simply OK out of the Target Chart and create another one.

**Special (on Main Reporting Screen)**

The Special button only appears when an additional program to execute was entered. Clicking Special executes the additional program named in the Additional Program to Execute in More Setup. For more details, see Chapter 7 -- Advanced Options -- “Setup” -- “More Setup”.

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**OUTPUT AND ANALYSIS**

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Advanced Options

In the main report screen (blue), the Advanced Options are used for importing, retrieving, and setting up data. These options are available in the “Advanced Options” button group.

Import

For Calypso programs that have already been set up in the Enhanced Reporting Software, table files and Excel spreadsheets can be imported.

Importing Table Files

Table files must be turned on for each Calypso program that will use the Enhanced Reporting Software (see Chapter 4 -- Interfacing with Calypso: “Turn on Table Files”).

Until processing, table files are usually stored in the directory .../Calypso/home/om/workarea/results/. When importing table files, the number at the end of the table file will automatically increment so multiple runs do NOT overwrite previously created table files.
In the main report screen (blue), click on Import.

Follow the steps in the Process Data Files screen (orange).

A. Select a plan info file by clicking it in the left list on the Process Data Files screen.
B. Click the Table Files button in the middle of the window.
C. Select Calypso table file or files (using the shift or control key and clicking multiple files) in the right list on the Process Data files screen.
D. Press the OK button.

The main Report screen will open with data. If multiple table files were selected for processing, only the last results will be shown on the main screen. Additional results can be seen using the “Archive” selection (See Chapter 7)

Note: Pressing the Cancel button will close the Process Data Files screen without importing any data.
Importing Excel Files

Excel spreadsheets with data can be read into the Enhanced Reporting software. The format of the spreadsheet must be in the same format as the "Export Run and Stat Data to Excel" spreadsheets created from the Basic Statistic Analysis window by pressing the "To Excel" button.

To manually create an Excel spreadsheet in the correct format, see the next section – “Creating Excel Files for Importing”.

In the main report screen (blue), click on Import.

Follow the steps in the Process Data Files screen (orange).

A. Select a plan info file by clicking it in the left list on the Process Data Files screen (orange).
B. Click the Excel Sheet button in the middle of the window.
C. Open the folder that contains the Excel spreadsheet.
D. Click on the Excel spreadsheet in the bottom window.
E. Press the OK button.

A new report record will be created for every row of data in the Excel spreadsheet. Processed data can be viewed in the Archives or Basic Stats window.

Note: Clicking the Cancel button will close the Process Data Files screen without importing any data.
Creating Excel Files for Importing

In the main report screen (blue), click on Import.

Follow the steps in the Process Data Files screen (orange).

A. Select a plan info file by clicking it in the left list on the Process Data Files screen (orange).
B. Click the Excel Sheet button in the middle of the window.
C. Click the Template button and an Excel spreadsheet opens.
Fill in the Excel spreadsheet as instructed in the template.

- Characteristic names and Data are arranged with unique Characteristics sorted in columns and the individual measurement Results in rows. Every Row that contains data must have a run number in Column A of the spreadsheet. Every Column with data must have a Characteristic Name (Row 9) in the spreadsheet.
- The Nominal (Row 10), and Upper and Lower Tolerance (Rows 11 and 12) must be entered for every characteristic.
- Fill in additional rows and columns as needed.
- Save and close this Excel spreadsheet.
- Follow directions on Importing Excel Files in the previous section.

Note: Pressing the Cancel button will close the Process Data Files screen without importing any data.
Archives

All processed data files can be viewed at any time in the Archived Inspection Results screen (purple). Individual inspection results are available for viewing, sorting, and printing here as long as the data file exists in the results directory.

A. Press the CHOOSE A DIFFERENT CALYPSO PLAN button to show a list of Calypso plans that have data available for viewing.
B. Choose a Calypso plan from the list.
C. When prompted, choose an individual measuring record file to view.

Once a measuring record file is selected, the results will be shown on the Archived Inspection Results window. The buttons work exactly like the ones on the main report screen (blue). See Chapter 5 - Report View and Chapter 6 - Output and Analysis sections for details about the buttons.

Note: If there are no measuring records to view for the selected plan, you will be given an option to remove the Calypso plan from the reporting program. Clicking the REMOVE PLAN FROM REPORT PROGRAM removes the plan from the list and new data cannot be added for that plan unless it is set up again in the reporting software.
Automatic Data File Handling

The icons in Automatic File Handling (on the left side of the screen) move or delete the specified groups of files (all records or just the records for the current inspection plan).

**Move In**: If there are processed data files in a backup folder on your system, you can transfer those files back into the active results directory so reports and statistics can be created in the Enhanced Reporting Software from old data. When the button is pressed, you will be prompted to select the system folder containing the old results. Upon moving the files back into the active results directory, if there are any duplicate file names, the incremental file number used to identify the files will be changed. The most current files will have the higher incremental numbers, while the oldest files will have the lowest numbers. Note that the header information and creation dates of the data files DO NOT CHANGE.

**Move Out**: This function will move the desired files out of the active results directory. When the button is pressed, you will be prompted to choose a destination directory to move the old files into. You may create a new folder if desired using the “New Folder” icon in the directory selection window. After selection of the destination folder, you will be asked if you want the incremental file number changed back to “1” (this is recommended). Upon moving the files to the destination directory, if there are any duplicate file names, the incremental file number used to identify the files will be changed. The most current files will have the higher incremental numbers, while the oldest files will have the lowest numbers. Note that the header information and creation dates of the data files DO NOT CHANGE.
**Delete All**: This button will delete all data files for all inspection plans or all data files for the current inspection plan in the active results directory. After the files are deleted, an option is given to reset the incremental file number back to “1”. Resetting the counter to “1” is recommended.

**Delete One File**: Only available for the current inspection plan, this function prompts for a single incremental part number of a measuring record to be deleted.

**Unused Files**: Deletes files not used by the Enhanced Reporting software including Calypso’s original table files ( _chr, _fet, and _hdr files).

**NOTE**: To change the current plan, simply return to the light blue Archives screen and select another Calypso plan to view from the list box. Return to the File Manager and the current plan will be the plan you selected.

**Manual Selection of Data Files for Removal**

Deleting using Manual Selection of Data Files for Removal (on the right side of the screen) is similar to using Windows Explorer. Select desired measuring records by clicking them in the file list and click the Delete button on the right side of the screen.
**Replace Run**

Replace Run replaces the current report with the next processed report. The same incremental part number will be used.

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**Setup**

Every Calypso program that uses the Enhanced Reporting Program must be set up separately. These instructions are a continuation of those in Chapter 4 - Interfacing with Calypso.

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**REPORT SETUP INFORMATION**

- **Calypso Results Directory** (usually `\Calypso\home\om\workarea\results\`)
- **Table File Save Directory** (leave blank if you do not need original table files)
- **Calypso Inspection Plan Name** (Case Sensitive - No Spaces)
- **Logo Bitmap** (directory path to a .bmp image to appear on report screens)
- **Report Header Text** (this text will appear above results on report screens)
- **Next Incremental Part Number** (a sequential number to identify each run)
- **Number of Decimal Places for Report** (3 through 6 places are valid)
- **Report Units** (regardless of Calypso workroom units, the units to report)

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A. Click on the Search Directory icon and navigate to your Calypso results directory. Usually, this directory is `\Calypso\home\om\workarea\results\`

B. By default, Enhanced Reporting takes the three table files generated per run, deletes them, and processes them into one file. To save your original table files, click on the Search Directory icon and navigate to a folder. Otherwise, leave this blank if you do not need to save the original files.

C. Click on the Search Directory icon and navigate to your program name. Usually, programs are in the directory `\Calypso\home\om\workarea\inspections\`. If the program name has spaces in it, rename the program in Calypso (using File > Save As) without spaces or using "_".

D. Click the Search Directory icon to include a logo graphic. The file type must be a bitmap (.bmp extension) and ideal image size is 225 x 100 pixels.

E. Type a title that will appear at the top of report screens.

F. Type a part number that will automatically increment each run. This is NOT the same incremental part number in Calypso.

G. Use the drop down and select the number of decimal places to appear on the reports.

H. Select inch or metric units for the reports.

I. Click OK
Setup – Open Setup

Open Setup opens up the setup screen for another Calypso program (not necessarily the active Calypso program). Another screen opens prompting to “Choose an existing information file to change.” Select the desired Calypso program and click OK. Follow directions in the Advanced Options -Setup section in Chapter 7.
More Setup allows for advanced Setup options including Header Fields, executing additional programs, and automatic printing.

**Header Fields** - If your Calypso programs have previously defined header fields, the fields can be displayed in the Enhanced Reporting printout. From the dropdown, choose the Calypso header name (for example, tooldf, lotid, etc.) and type the description in the box next to the drop down. The Enhanced Reporting printout will show the description and the header value from the Calypso program.

In the example below, the first header field description was “Fixture Number” and the value from the Calypso table file was Fixture2 the second header field description was “Cavity Number” and the value from the Calypso table file was Cavity3.
**Advanced Options**

**Additional Program to Execute** - Type in the path to a .bat or .exe file here. The next time Enhanced Reporting runs, a Special button appears on the Main Report screen (blue). Click on the star to execute the additional program.

**Printing Options** - Checking the printing options boxes makes the particular report(s) automatically print each time Enhanced Reporting runs.
Enhanced Reporting has five different operator modes to limit the ability of operators to change setup information and view data. This chapter explains how to change operator modes and defines the different modes.

8. Operator Mode

Changing Operator Modes

1. Using Windows Explorer, open the directory c:ztemp\%

2. Open the file opmode.txt
   If Windows asks what program to use to open the program, choose Notepad

3. In Notepad, edit the operator mode to 0, 1, 2, 3, or 4
4  Save and close the file
   File > Save
   File > Exit

*If you do not have an opmode.txt file in your c:\ztemp\ directory, create one using steps 5 – 8.*

5  Open the Notepad program
   Start Menu > Programs > Accessories > Notepad.

6  Type 0 in the white window.

7  Save this file as opmode.txt in the directory c:\ztemp: 
   A  File > Save As
   B  Select the directory c:\ztemp\ 
   C  Name the file opmode.txt
   D  Click Save

8  Close the Notepad program
   File > Exit
Description of Operator Modes

The Enhanced Reporting main report screen (blue) has four different operator modes. The mode is determined by the number (0, 1, 2, 3, or 4) contained in the opmode.txt file.

**Operator Mode 0**

Operator mode 0 is the default mode when Enhanced Reporting is initially installed. In this mode, operators have access to ALL features.

**Operator Mode 1**

After each Calypso run, the splash screen (below) will open but the main report screen (blue) does NOT open automatically. However, the table files are still being processed. Use when running multiple parts so the main report screen (blue) will not open for each run. To view data after each run, open the Enhanced Reporting program with the opmode.txt file set to “0”.

**Operator Mode 2**

Operators can only view, sort, and print reports.

**Operator Mode 3**

Operators can view, sort, and print reports. Operators can view basic statistical data but are not able to delete or alter any data.

**Operator Mode 4**

Operators can view, sort, and print reports. Operators can view basic statistical data but are not able to delete or alter any data. Operators can view archived results.
9. Troubleshooting

Alternate Loading Procedure

♦ Use this loading procedure if the Installation Program from the provided CD asks you to re-boot several times and in other instances where installation does not finish.

1 In Windows Explorer, create a ztemp directory off of your main C:\ drive by right-clicking and choosing NEW>FOLDER in the explorer c:\ directory. Type the name “ztemp” when allowed.

2 Copy the below files from the “Support” directory of the installation CD into your new c:\ztemp directory:
   - report.exe
   - jhlogo.bmp
   - zeisslogo.bmp
   - time.txt
   - opmode.txt

3 Create a shortcut to the Enhanced Reporting Software by right-clicking on the report.exe file in your c:\ztemp directory and choosing SEND TO>DESKTOP (create shortcut)

4 From the CD’s “Support” directory, copy the file “MSFLXGRD.OCX”. Paste it your c:\WINDOWS\SYSTEM32 directory.

5 Click on the Windows’ START button on the lower left side of your screen. Choose START>PROGRAMS>ACCESSORIES>COMMAND PROMPT. A black “dos-style” window will open up.

6 In the black command prompt screen, type the below commands:
   - cd c:\
   - cd windows
   - cd system32
   - regsvr32 msflxgrd.ocx

7 When you see the message “DLLRegisterServer in msflxgrd.ocx succeeded.” Appear, installation is complete and you can close all windows. The Enhanced Reporting Software can be started from your desktop shortcut.
Errors Entering Registration Code

Use this procedure if you get an error after entering the registration code stating “File Already Open”. This error happens when the Enhanced Reporting Software was not properly installed in the correct directory, or there are multiple loads of the software on the computer.

1. Make sure that the reporting program was installed only once on your system. Locate all directories containing the report.exe program, including c:\temp, c:\ztemp, d:\temp, and d:\ztemp. Delete all directories that may contain the Enhanced Reporting Software.
2. Re-install the report program carefully following the installation instructions in Chapter 1 of this manual.

Use this procedure if you get an error when starting the Enhanced Reporting Software stating “This Program is Not Registered Properly for This CMM.” This error happens when an improper registration code is entered, or your calypso.key file changes.

1. Start Windows explorer. (Right-Click on START and choose EXPLORE)
2. In Windows Explorer, go to your c:\ztemp\ directory and delete the file “reg.txt”
3. Run the report.exe program in the c:\ztemp\ directory and enter the code again carefully when prompted, paying special attention to uppercase and lowercase letters. Also, watch for similar-looking characters like capital O and the number 0, capital I lowercase l and the number 1. If you appear to have one of these characters, enter the similar character and try to run the program again. You can also copy the code if sent to you in email and paste the code in when prompted. This will eliminate any entry errors.
4. If you continue to have problems, repeat the above steps.
5. If you continue to have problems, re-send your calypso.key file (found in your …calypso\home\om directory to ryan.stauffer@jhtools.com) for another registration code.

Use this procedure if you get an error when starting the Enhanced Reporting Software stating “This Program Cannot Locate your Calypso.key File.” This error happens when Calypso is not loaded on the computer, or Calypso is loaded in an unusual directory.

1. Start Windows explorer. (Right-Click on START and choose EXPLORE)
2. In Windows explorer, select your root C:\ directory on the left side of the screen.
3. On the right side of the screen, right click and choose NEW>FOLDER and then name the new folder “home”.
4. Double-click the new “home” directory and on the right side of the screen, right click and choose NEW>FOLDER and then name the new folder “om”.
5. Copy the calypso.key file you requested the registration code for into your new c:\home\om directory.
6. The Enhanced Reporting Program will now be able to find the calypso.key file.
Other Problems and Errors when Starting and Using the Enhanced Reporting Software

♦ Use this procedure if you get an error referencing an “Active X” failure when you attempt to print a report or attempt to calculate statistics. This happens when Microsoft Excel is not loaded on your computer.

1 Close the Enhanced Reporting Software.
2 Install Microsoft Excel properly.

♦ Use this procedure if you get an error when starting the Enhanced Reporting Software stating “YOUR DIRECTORY PATH TO THE CALYPSO RESULTS DIRECTORY IS WRONG!!!!!!! Please change in the SETUP screen.” This error happens when the setup information provided to the software is not correct.

1 Press OK to get to the main Blue Screen of the Enhanced Reporting Software.
2 Press the SETUP button
3 Confirm all information shown is correct, particularly the “Calypso Results Directory” field. Re-select the directory using the little gray explorer icon to the right of the text box.
4 OK out of the SETUP screen. At this time, the problem has been fixed and you can exit the software and run a Calypso inspection plan that calls the Enhanced Reporting Software automatically. Note that you will continue to get the error until a file is successfully imported into the software.
5 If you are unable to import a file and continue to get errors, or you want to manually import a table file using the IMPORT option, go to windows explorer and delete the file “reportinfo.txt” in your c:\ztemp\ directory. After you delete the “reportinfo.txt” file, you will need to re-start the Enhanced Reporting Software and re-do the SETUP information from scratch. Please use the little gray explorer icons next to the text boxes whenever possible to avoid mistyping any information.

♦ Use this procedure if you get a “Run Time Error – File Not Found” error when attempting to import a table file into Enhanced Reporting Software manually using the IMPORT function. These errors are caused by missing or corrupt table files in your results directory.

1 Start Windows explorer. (Right-Click on START and choose EXPLORE)
2 In Windows explorer, find the results directory where Calypso sends your table files.
3 Delete the _chr file that has the name of the table file you were attempting to read.
4 If you continue to have problems, back up your results directory to another directory or to a CD and then delete all table files from the result directory containing _fet, _hdr, and _chr. This procedure will remove all table files created by Calypso and you will now start over with a “clean slate” with no missing or corrupt table files. You do not need to delete any files that simply have the name of a Calypso plan with an underscore and number after the name. These files have successfully been imported and will not cause any problems.
Use this procedure if you get a “Run Time Error – Input past end of file” error when attempting to import a table file into Enhanced Reporting Software. A table file containing no information causes this error. Calypso will create a table file with no information if you run an inspection plan with the table files on and you select no characteristics to report, or if you are running a program with GEAR Pro or HOLOS macro call only.

1. Start Windows explorer. (Right-Click on START and choose EXPLORE)
2. In Windows explorer, find the results directory where Calypso sends your table files.
3. Delete the _chr file that has the name of the table file you were attempting to read.
4. If you continue to have problems, back up your results directory to another directory or to a CD and then delete all table files from the result directory containing _fet, _hdr, and _chr. This procedure will remove all table files created by Calypso and you will now start over with a “clean slate” with no missing or corrupt table files. You do not need to delete any files that simply have the name of a Calypso plan with an underscore and number after the name. These files have successfully been imported and will not cause any problems.

Use this procedure if you get a message stating “Please verify that all data is correct in the SETUP screen. Make sure a company logo exists at the specified location”. This error is caused by bad setup information entered in the SETUP screen of the Enhanced Reporting Software.

1. OK the close the message and enter the main blue reporting screen.
2. Press the SETUP button.
3. Confirm all information shown is correct, particularly the “Logo Bitmap” field. Re-select the bitmap name using the little gray explorer icon to the right of the text box.
4. Close and re-start the Enhanced Reporting Software. You should have no problems.
5. If you continue to get errors, go to windows explorer and delete the file “reportinfo.txt” in your c:\ztemp\ directory. After you delete the “reportinfo.txt” file, you will need to re-start the Enhanced Reporting Software and re-do the SETUP information from scratch. Please use the little gray explorer icons next to the text boxes whenever possible to avoid mistyping any information.

Use this procedure if the logo bitmap on the reporting screens or on printed reports cover up data or is otherwise too large.

1. Start the Windows Paint program by selecting START>PROGRAMS>ACCESSORIES>PAINT
2. In the Paint program, go to FILE>OPEN and open your logo bitmap that is selected in the Enhanced Reporting Software.
3. Choose EDIT>SELECT ALL in the Paint Program. A dashed box will appear around your logo bitmap.
4. Click and hold on the lower right corner of the bitmap. Drag the corner to the top-left direction to make the logo smaller.
5. When the icon is at the desired size, go to IMAGE>ATTRIBUTES and enter a width of 225 pixels and a height of 100 pixels. OK out of the attributes window. If the bitmap is larger then 225 by 100, got to EDIT>UNDO and repeat steps 3-5 until the size is correct.
6. You can center your logo by choosing EDIT>SELECT ALL and clicking and dragging the image to the center of the area.
7. Save and close your logo bitmap.
Problems and Errors when using PCM for Automation

♦ Use this procedure if you get an error stating “File already open” or “Error when reading File” or “Error accessing file” or other similar file access message. A slow computer and/or a very long Calypso inspection plan typically causes this. The Enhanced Reporting Software is trying to open and read the file before Calypso has completed writing the file.

1 Start Windows explorer. (Right-Click on START and choose EXPLORE)
2 Open your c:\ztemp\directory
3 Double-click your “time.txt” file. Notepad should open the file that should contain a number. If you do not have the “time.txt” file, go to START>PROGRAMS>NOTEPAD to open a blank text file.
4 The “time.txt” file controls the length of pause before the Enhanced Reporting Software attempts to open the table files. Edit the contents of the “time.txt” file to 10 or higher.
5 In Notepad choose FILE>SAVE AS and save the file as “time.txt” in your c:\ztemp\directory
6 Close notepad and run the Calypso program again. You should notice a longer pause and the data should be automatically displayed in the Enhanced Reporting Software. If that works, you can try to shorten the pause time by using the same procedure until the error happens again.

♦ Use this procedure if after running the Calypso program, the Enhanced Reporting Software does not appear at all. This is caused by improper entry of the program postsettings used to call the Enhanced Reporting Software.

1 Repeat the steps in the “Process Table Files Automatically” section in the “Interfacing with Calypso” chapter of this manual. Make sure that when typing the postsettings, you type the code correct, especially the last line:
   systemCall("c:\ztemp\report.exe")

   Note that the C in systemCall is capitalized and there is no space between system and Call. Also make sure you typed the correct path to the report.exe program. ANY small typographical error will cause the Enhanced Reporting Software not to open.

♦ Use this procedure if after running the Calypso program, the Enhanced Reporting Software opens to the main blue screen, but no data is displayed. Three things could cause this: no table files, improper SETUP information in the Enhanced Reporting Software or improper Calypso postsettings parameters.

1 In Calypso, make sure the table files are on in your program. Go to RESOURCES>RESULTS TO FILE> check TABLE FILE ON. If you are using Autorun, right-click the icon and choose DEFINE RUN PARAMETERS and ensure that the Table Files are checked ON.
2 Repeat step 4 in the “Interfacing with Calypso” section of this manual to ensure that all SETUP information provided to the Enhanced Reporting Software is correct.
3 Repeat the steps in the “Process Table Files Automatically” section in the “Interfacing with Calypso” chapter of this manual. Make sure that when typing the postsettings, you type the code correct, especially first two lines:
   systemCall("c:\ztemp\exampleCopy.bat")
   setRecordHead("partnbinc",1)

   Note that the C in systemCall and the R and H in setRecordHead are capitalized and there are no spaces between the words. Also make sure you typed the correct name in the systemCall command. Many people neglect to add “copy” after your Calypso plan name. ANY small typographical error will cause the Enhanced Reporting Software not to read the information automatically.
Use this procedure if after running the Calypso program, the **Enhanced Reporting Software opens to the main blue screen, and only one characteristic is displayed**. This is caused by improper setup information provided to the Enhanced Reporting Software.

1. In the main blue reporting screen, press the SETUP button.
2. Confirm all information shown is correct, particularly the “Calypso Inspection Plan Name” field. Re-select the Calypso Plan name using the little gray explorer icon to the right of the text box. A typographical error in the Calypso Inspection Plan Name – usually an error in the case of a letter.
3. Refer back to step 4 of the “Interfacing with Calypso” chapter of this manual to ensure all data entered is correct.
4. Close the SETUP screen and close the Enhanced Reporting Software and try running the Calypso Plan again.

Use this procedure if you have tried the above procedure and **Enhanced Reporting Software still opens with only one characteristic is displayed**. Re-naming an inspection plan improperly typically causes this. Never change an inspection plan name by renaming the inspection folder in Windows Explorer.

1. Open your Calypso program that is causing problems.
2. Go to FILE>SAVE AS and type in a new name without spaces or other strange characters.
3. Modify the postsettings as described in the “Process Table Files Automatically” section in the “Interfacing with Calypso” chapter of this manual, specifically ensuring that the program name is typed correctly with “copy” after it in the first systemCall command.
4. In the Enhanced Reporting Software, Refer back to step 4 of the “Interfacing with Calypso” chapter of this manual to ensure all data entered is correct for the new Calypso program name.
5. Close the SETUP screen and close the Enhanced Reporting Software and try running the Calypso Plan again.

Use this procedure if the Enhanced Reporting Software reports all characteristics, but **does not increment the file counter, so the data is overwritten each inspection**. This is evident when you go to the Basic Statistical Analysis screen and there is not enough data to calculate stats, or there is only one record in the Archived reports screen and you have inspected multiple parts. This is typically caused by an error in the postsettings of the Calypso plan.

1. Repeat the steps in the “Process Table Files Automatically” section in the “Interfacing with Calypso” chapter of this manual. Make sure that when typing the postsettings, you type the code correct, especially first line:
   ```
   systemCall("c:\ztemp\exampleCopy.bat")
   ```

   Note that the C in systemCall is capitalized and there are no spaces between the words. Also make sure you typed the correct name in the systemCall command. Many people neglect to add “copy” after your Calypso plan name. ANY small typographical error will cause the Enhanced Reporting Software not to function properly.
Problems and Errors when using ReportLauncher for Automation

♦ Use this procedure if you get an error stating “File already open” or “Error when reading File” or “Error accessing file” or other similar file access message. A slow computer and/or a very long Calypso inspection plan typically causes this. The Enhanced Reporting Software is trying to open and read the file before Calypso has completed writing the file.

1. Start Windows explorer. (Right-Click on START and choose EXPLORE)
2. Open your c:\ztemp\ directory
3. Double-click your “time2.txt” file. Notepad should open the file that should contain a number. If you do not have the “time2.txt” file, go to START>PROGRAMS>NOTEPAD to open a blank text file.
4. The “time2.txt” file controls the length of pause before the ReportLauncher attempts to open the table files. Edit the contents of the “time2.txt” file to 10 or higher.
5. In Notepad choose FILE>SAVE AS and save the file as “time2.txt” in your c:\ztemp\ directory
6. Close notepad and run the Calypso program again. You should notice a longer pause and the data should be automatically displayed in the Enhanced Reporting Software. If that works, you can try to shorten the pause time by using the same procedure until the error happens again.

♦ If Reports do not appear, try the below steps.

2. Ensure that the Table files are turned on in Calypso. Go to Resources>Results To File>Table File ON.