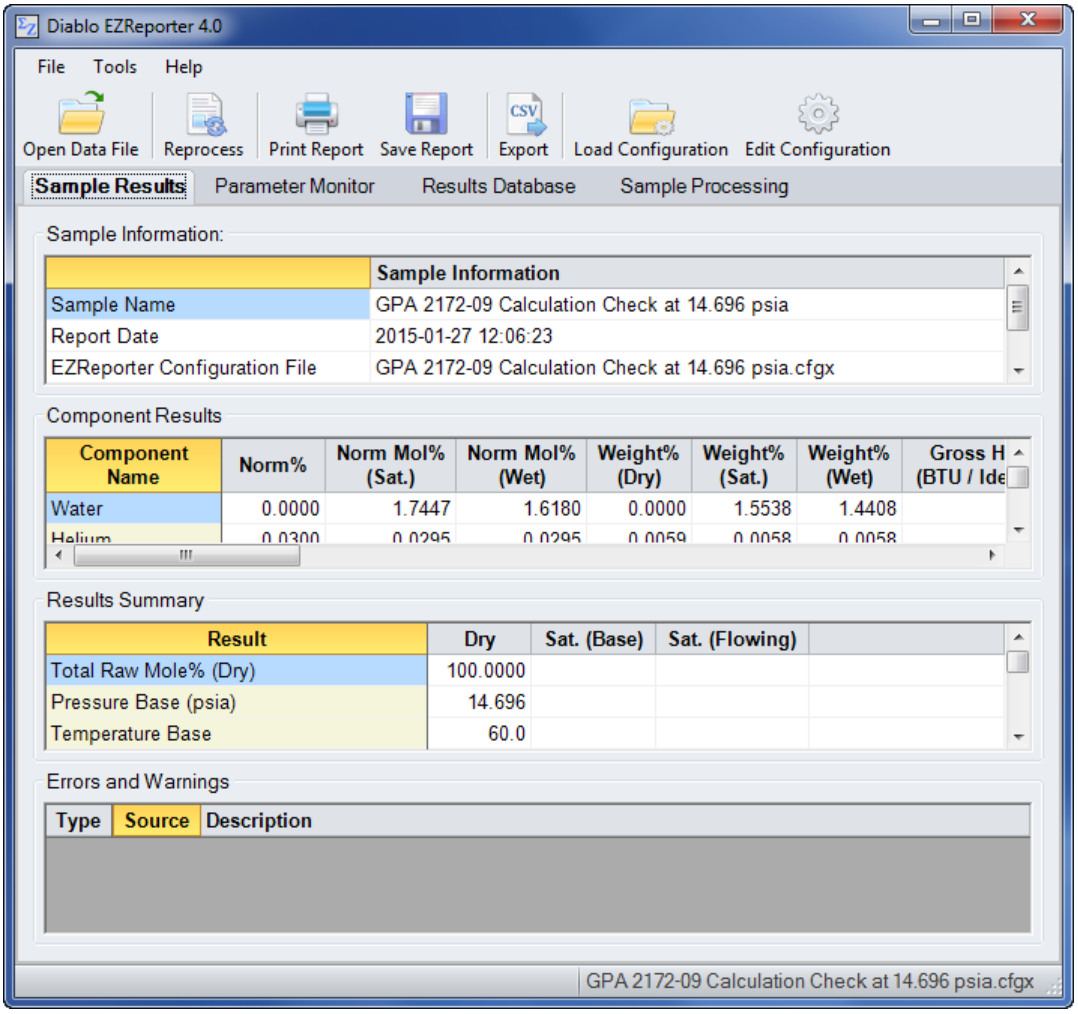
Diablo EZReporter 4.0

ChemStation Connector Plugin



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Diablo Analytical EZReporter Software

EZReporter 4.0 Agilent ChemStation Connector Plugin

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ChemStation Connector Plugin

Getting Started

This document describes how to configure the Agilent GC ChemStation chromatography data system (both “legacy” and “OpenLab” versions) and the EZReporter 4.0 ChemStation Connector Plugin so that results can be processed automatically at the end of each run.

Installation

Install the EZReporter software that includes the GC ChemStation Connector plugin *after* installing the GC ChemStation software. The EZReporter post-run processing macro, “ezrptx.mac”, will be installed automatically to the correct ChemStation directory (C:\Chem32\Core). Otherwise, the macro will be saved to the EZReporter installation folder in a ZIP file named, “ezrptx.gcchem.zip” and you will have to extract it and copy it manually to the correct folder.

Configure the Agilent Technologies GC/LC ChemStation

The Diablo EZReporter software supports automated processing of calibrated peak results generated by the Agilent Technologies GC or LC ChemStation data system. This support is accomplished using a post-run macro as described below.

Important: In order to process results from the Agilent Technologies ChemStation data system, you must first make sure that the names in the EZReporter component settings table match the compound names in the ChemStation calibration tables. For example, if a compound is named "Hexane" in the ChemStation calibration table, it must also be entered as "Hexane" in the component settings table (not "n-Hexane", or "nC6").

Configure the ChemStation Method

To configure a ChemStation method for automatic post-run processing with the EZReporter software, open the “Run-Time Checklist” dialog box via the “**Method > Run Time Checklist…**” menu option and configure this dialog bog as follows.

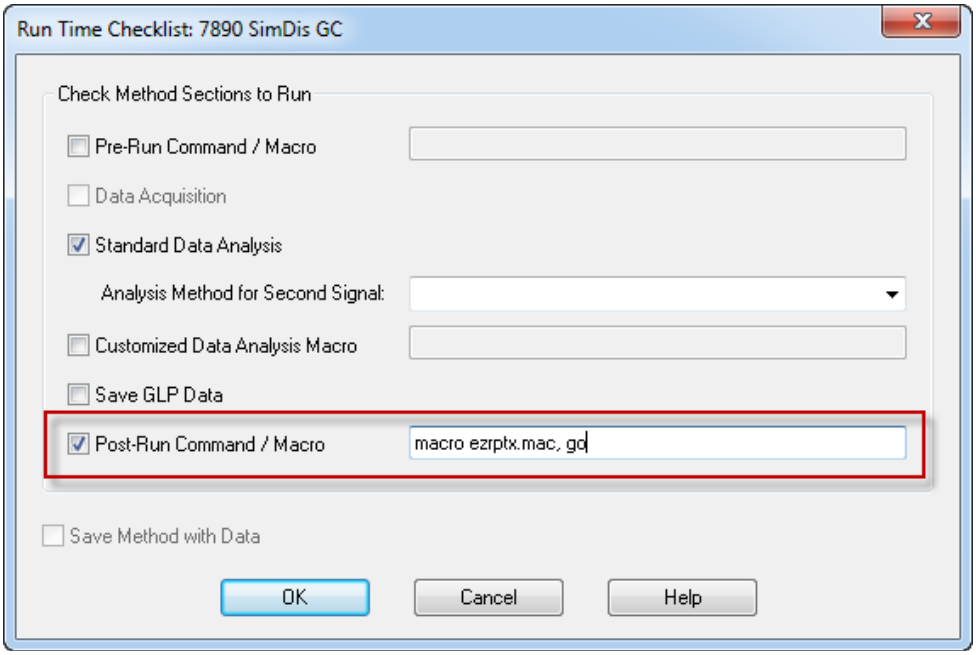
1. Check the “Post-Run Command/Macro checkbox.
2. Enter the following command*:

   macro ezrptx.mac, go

   *If you already have a ChemStation method set up for automatic processing with EZReporter 3.0, you will need to change the macro name from “ezrpt.mac” to “ezrptx.mac” as shown above. EZReporter 4.0 uses a different reporting macro.

3. Click “OK”.

Important: Make sure to save the ChemStation method once you have made these modifications.



The Agilent ChemStation “Run Time Checklist” dialog box configured to send results automatically to the EZReporter 4.0 software at the end of each run.

Note: If the EZReporter installation program detects the presence of the ChemStation software on the computer, it will automatically copy the post-run macro, “ezrptx.mac” to the proper folder in the ChemStation directory structure (the “Core” folder). If the ChemStation software is not detected, then the macro will be installed in a to the EZReporter installation folder in a zip file (ezrptx.gcchem.zip) and it will need to be extracted and copied manually to the ChemStation “Core” folder.

Processing ChemStation Results

Reprocessing Results in ChemStation Data Analysis

You can also reprocess results manually from the ChemStation Data Analysis view as follows:

1. Start the ChemStation software and switch to the Data Analysis View
2. At the ChemStation command line, type the following command followed by the “Enter” key*:

   ```
   macro "ezrptx.mac"
   ```

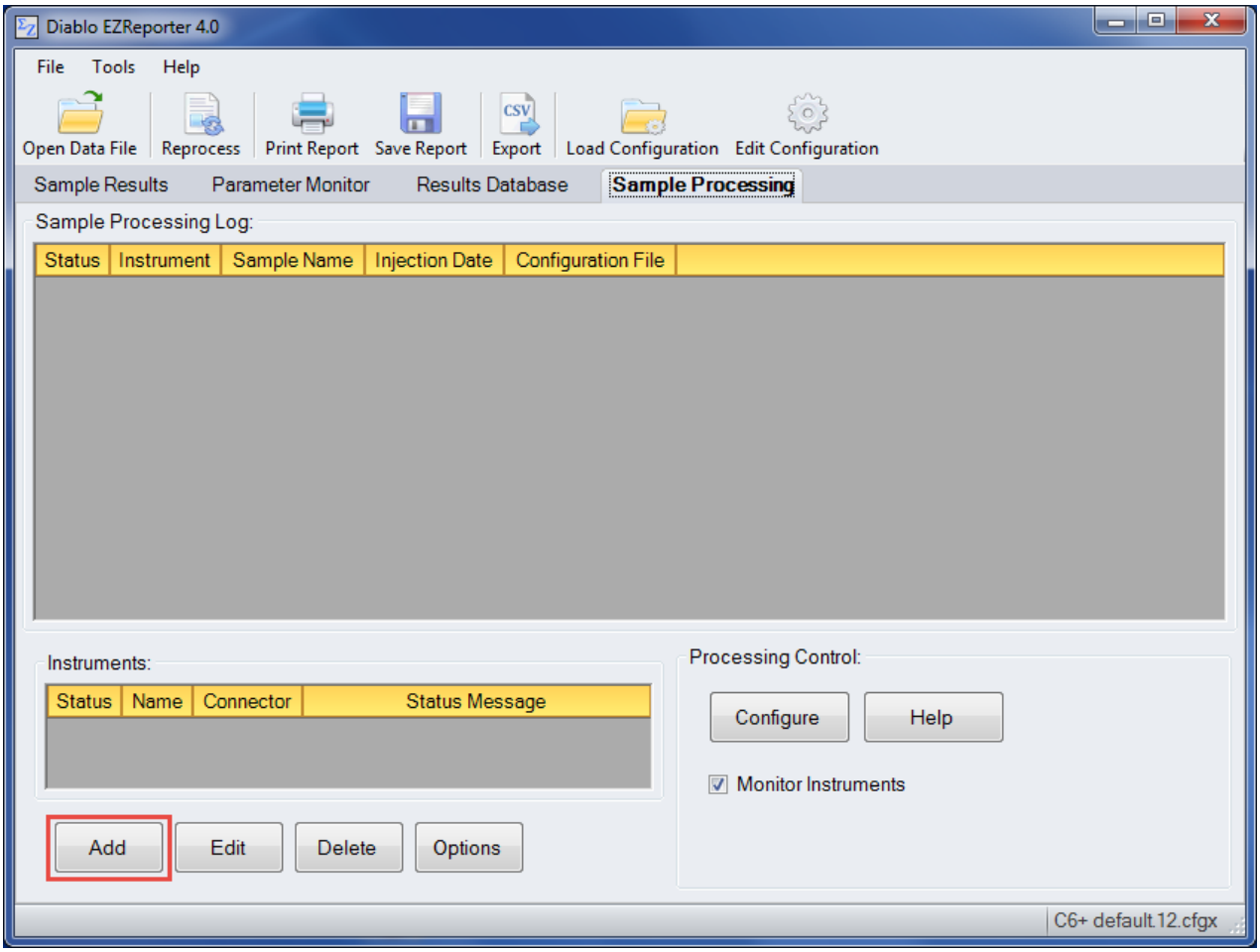
   Note: You will need to reload the macro from the Data Analysis view any time you restart the ChemStation software. *EZReporter 4.0 uses a different macro than EZReporter 3.0, so make sure you load the correct version of macro at the command line (ezrptx.mac).
3. When the macro is loaded a new option will be added to the Data Analysis “Report” menu: Report > Generate EZReport”.
4. **Important**: before sending results to EZReporter you must first generate a ChemStation report to ensure that all of the external standard results are calculated: “**Report > Print Report**”

5. **Important**: Make sure that you have already started the EZReporter software before sending results.
6. Click the "**Report > Generate EZReport**" menu option to send the current results to EZReporter for processing.

Configure the Instrument

Add an Instrument

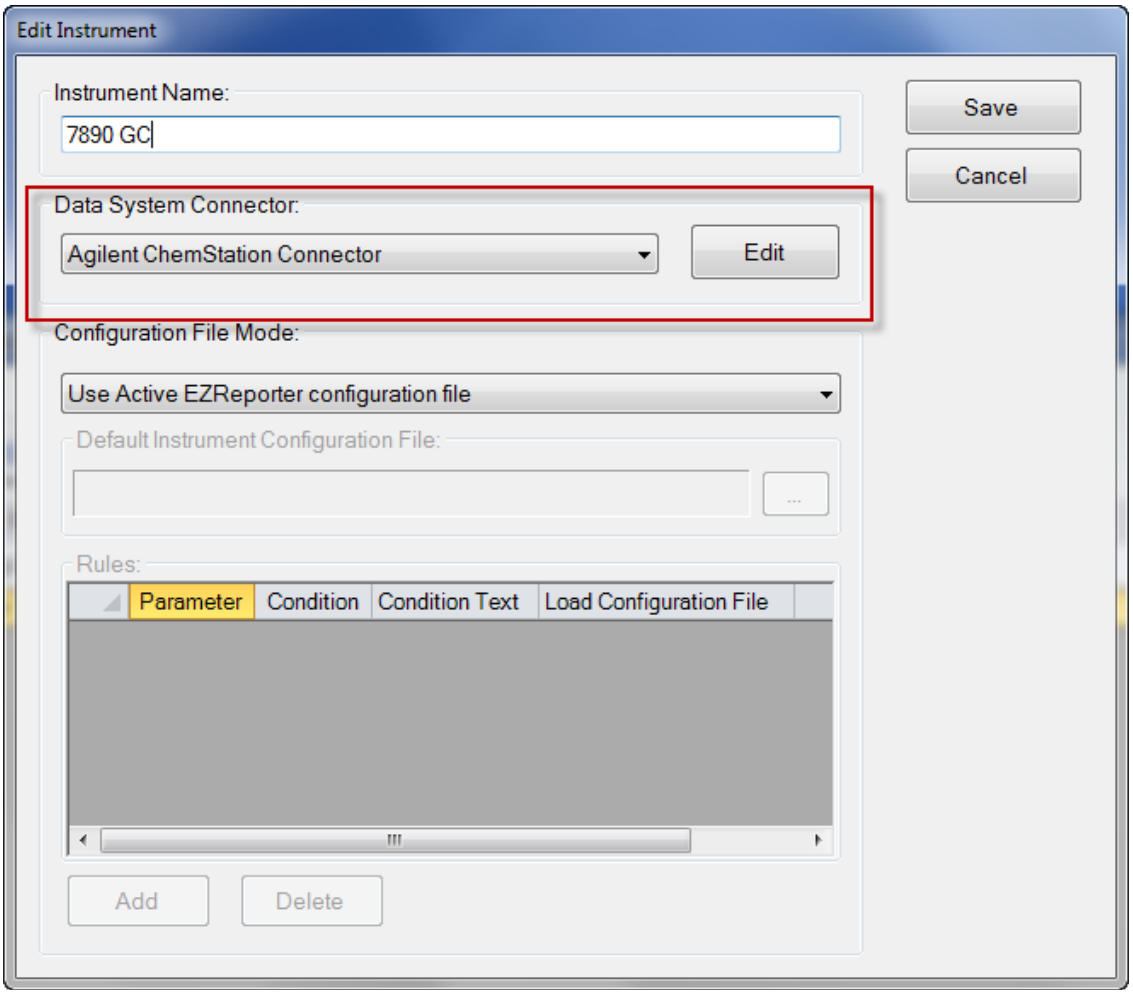
First, you must add and configure an instrument. Switch to the "Sample Processing" tab of the main window, and click the "Add" button below the instruments table.



Select the Data System Connector

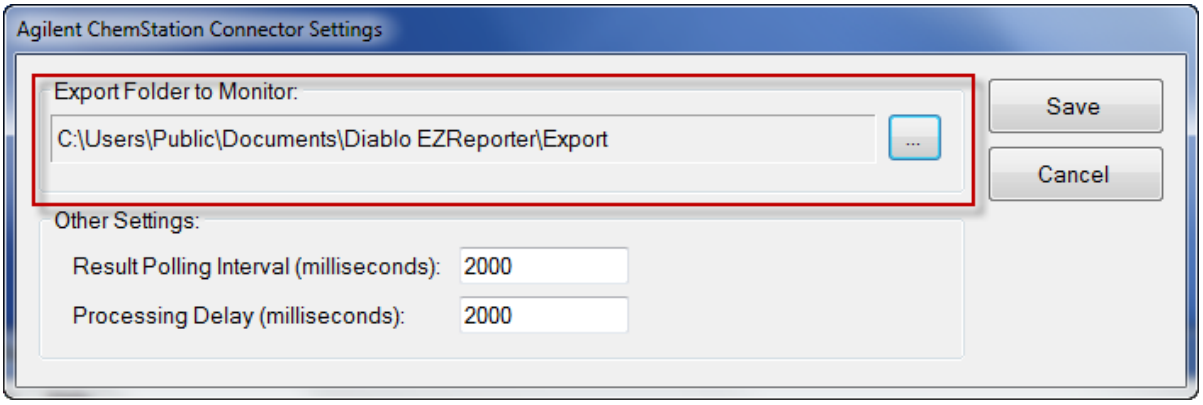
In order to process results from your chromatography data system, you must select the Data System Connector for the data system you are using, and then "Edit" the connector to select and apply any connector-specific settings. Please refer to the reference manual or help file for the particular Data System Connector you are using.

Important: The data system connectors available for you to select will be dependent on which version of the installation program you used to install the EZReporter 4.0 software. Make sure that you download the installer version for the manufacturer of the chromatography data system you are using to control your gas chromatograph.



Configure the Connector

The only setting you typically need to set for the ChemStation Connector is the "Export Folder to Monitor". Unless you are processing results from multiple instruments, you shouldn't need to change this setting from the default folder.



Other Settings

These settings should not need to be changed in a typical installation.

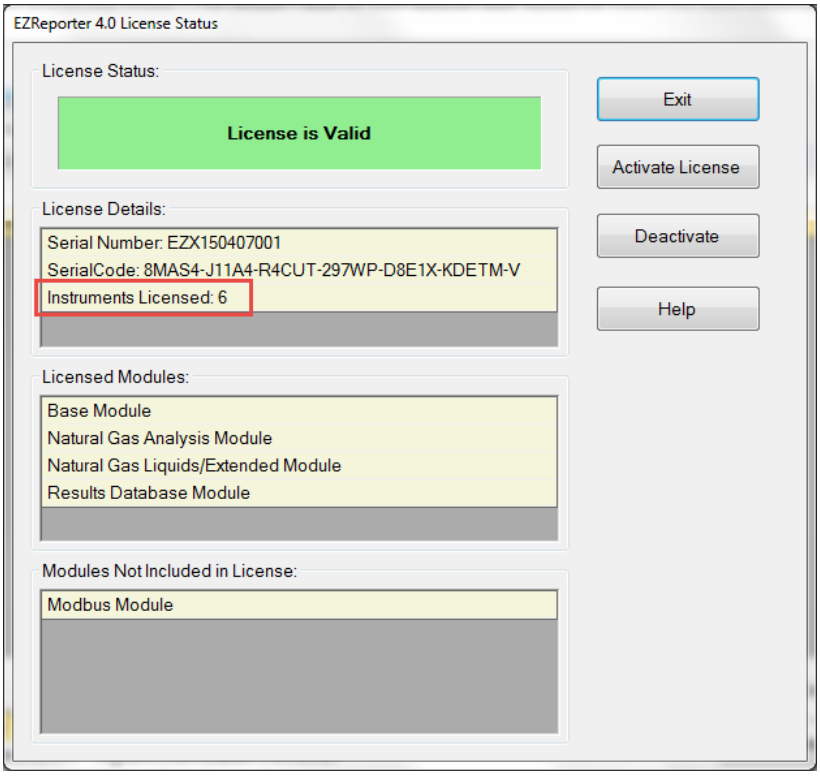
Result Polling Interval: This is the interval in milliseconds at which the connector will check the export folder for new text files exported from ChemStation. The default value of 2000 milliseconds should be correct for most situations.

Processing Delay: After finding new text files in the export folder, the connector will wait for this period in milliseconds before processing results. The default value of 2000 milliseconds should be correct for most situations.

Multi-Instrument Processing

EZReporter can be configured to process results from more than one ChemStation instrument (The ChemStation software supports up to four instruments to be installed on a single ChemStation instance – contact Agilent Technologies for more information).

1) IMPORTANT: You will need a separate EZReporter instrument license for each ChemStation instrument you want to monitor. The EZReporter Standard Edition, NGA Edition, and NGL Edition licenses typically include 1 instrument license. Click "Help > License Status" to determine the number of instrument licenses you currently have included in your license. Contact Diablo Analytical if you need to purchase additional licenses.



2) You will need to create separate export folders for each ChemStation instrument. We recommend the following folders:

   Instrument 1: C:\Users\Public\Documents\Diablo EZReporter\Export\1
   Instrument 2: C:\Users\Public\Documents\Diablo EZReporter\Export\2
   Instrument 3: C:\Users\Public\Documents\Diablo EZReporter\Export\3
   Instrument 4: C:\Users\Public\Documents\Diablo EZReporter\Export\4

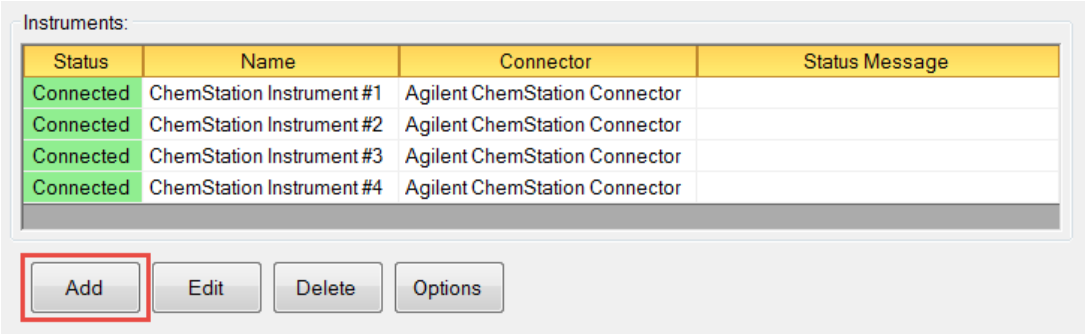
3) Next Edit the INI file, "C:\Chem32\Core\ezrpt.ini" and add the following 4 entries in the [EZREPORTER] section:

   [EZREPORTER]
   ExportDir1=C:\Users\Public\Documents\Diablo EZReporter\Export\1

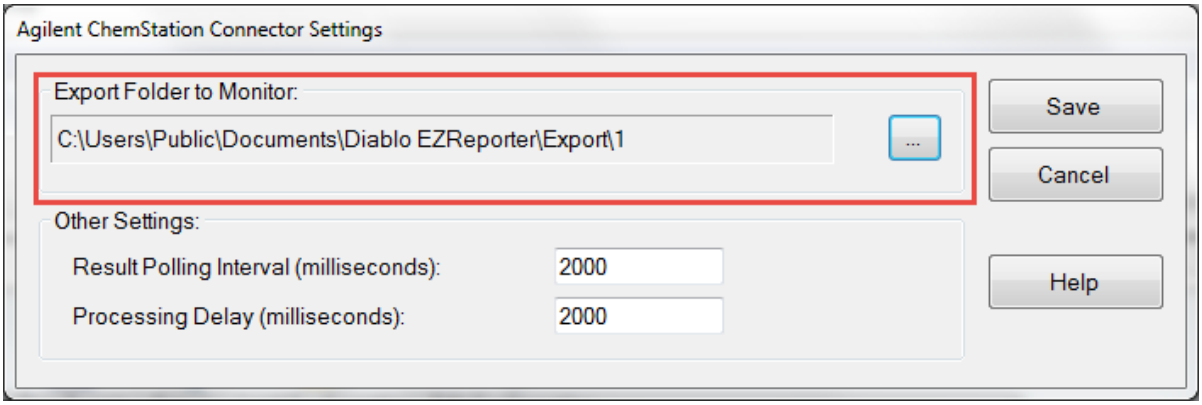
ExportDir2=C:\Users\Public\Documents\Diablo EZReporter\Export\2
ExportDir3=C:\Users\Public\Documents\Diablo EZReporter\Export\3
ExportDir4=C:\Users\Public\Documents\Diablo EZReporter\Export\4

Note: If the file "C:\Chem32\Core\ezrpt.ini" doesn't exist, you can create it.

4) Finally, you will need to add instruments to the EZReporter instruments table corresponding to each ChemStation instrument:



In the instrument configuration for each instrument make sure to select the Agilent ChemStation Connector, and then specify the export folder you set up for that particular instrument as the "Export Folder to Monitor"



Once you have set up your system as described above, the EZReporter ChemStation reporting macro, ezrptx.mac, will automatically direct the results to the proper export folder for the instrument that generated the results.

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