ABB PCCU Connector Plugin

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Getting Started

This document describes how to configure the ABB TotalFlow PCCU software and the EZReporter 4.0 ABB PCCU Connector Plugin so that results can be processed automatically at the end of each run.

Configure ABB PCCU Software

The Diablo EZReporter software supports automated processing of calibrated peak results generated by the ABB TotalFlow PCCU7 software.

EZReporter supports two different methods of processing results from PCCU:

1) Spreadsheet Output with Option-3 Automation format.
2) No Spreadsheet Output with Standard PCCU Run Report text file format.

Method 1 is the processing method that has been used in previous versions of the EZReporter PCCU Connector. Method 2 was added to allow results to be processed directly from the standard PCCU run report text files for users who need the standard report files or want to pass sample information entered in EZReporter.

Important: In order for EZReporter to retrieve the component results correctly, you must make sure that the component names in the EZReporter component settings table match the compound names reported by PCCU in the file, “\PCCU7\spreadsh\ezrpt.txt” (Method 1), or in the PCCU run report text file (Method 2), generated by PCCU7 at the end of each run. Note that the component names may be different in the text files created by PCCU for Method 1 and Method 2 processing. So, if you are switching from one processing method to the other, you should confirm the spelling of the component names.

Processing Method 1 Notes:

If the EZReporter installation program detects the presence of the ABB PCCU 7 software on the computer, it will automatically copy the batch file required for Method 1 processing, “ezxcopy.bat” to the folder, \PCCU7\spreadsh\.

If the ABB PCCU software is not detected, then the batch file will be installed to the EZReporter installation folder and it will need to be copied manually to the \PCCU7\spreadsh\ folder once the ABB PCCU software is installed.

Important: Recent versions of PCCU 7 are installed to the folder, “C:\Program Files\ABB TotalFlow\PCCU7” rather than “C:\PCCU7\”. If this is the case, and you are using Method 1 processing, then it may be necessary to change the permissions on the “spreadsh” folder and “ezxcopy.bat” file so that the logged in user has Full Control (Modify, Read & Execute, Read, Write, etc.). Check with your local IT support, since local security policies may dictate which user and permissions need to be changed.

Processing Method 2 Notes:

Important: EZReporter only imports the un-normalized component mole% values and sample information from the PCCU run report text file. EZReporter then calculates the heating value, etc. using the settings and physical constants in
the current configuration file. This means that there may be differences in the results displayed in the PCCU run report file and the EZReporter sample results. These differences may be due to differences in physical constants or other settings being used, differences in how rounding is handled, or differences in what results are displayed in the report.

**System Setup**

To enable the ABB TotalFlow PCCU software to send results to EZReporter, you must first enable portable NGC operation.

1.  Click the PCCU “Setup” toolbar button and switch to the “Misc” tab.
2.  Scroll down and check the option, “Enable Portable NGC Operation”
3.  Restart the PCCU Software

![Configure Output Options](image)

**Configure Output Options**

To configure the ABB TotalFlow PCCU software to send results to EZReporter, click the “Entry” toolbar button, and then click the “Run” button:
In the “Site Data” window, click the “Output Setup” button:
**Processing Method 1 Output Setup**

If you are using Processing Method 1, then in the “Output Setup” window, under “Spreadsheet Output”, click “Option-3 Automation Output”:

In the “Executable” text box you must enter either, “C:\PCCU7\spreadsh\ezxcopy.bat” or “C:\Program Files\ABB Totalflow\PCCU7\spreadsh\ezxcopy.bat”, depending on which location PCCU is installed:

1. Click the “Browse” button
2. In the “Open” window, select the “All Files (*.*)” filter
3. Browse to the \PCCU7\spreadsh\ folder and select the file “ezxcopy” and click “Open”.

![Output Setup Window](image-url)
Note: If the file, “ezxcopy.bat”, is not present in the “\PCCU\spreadsh” folder, then you will need to copy it to that location from the EZReporter installation folder:

C:\Program Files (x86)\Diablo EZReporter 4.0\ezxcopy.bat

**Processing Method 2 Output Setup**

If you are using Processing Method 2, then in the “Output Setup” window, under “Spreadsheet Output”, click “No Spreadsheet Output”:
Start Run

To start a run click the “Run” button:

In the “Site Data” window enter the Meter ID and other sample information and then click the “Start Run” button.
If you are using Processing Method 1, then at the end of the run the PCCU software will save the results to the file, “\PCCU7\spreadsh\ezrpt.txt” and then start the batch file, “\PCCU7\spreadsh\ezxcopy.bat”, which copies the results file to the export folder being monitored by the ABB PCCU Connector.

If you are using Processing Method 2, then the ABB PCCU Connector will watch the PCCU Run Reports folder and process any run report text files that are created.
Configure EZReporter

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 the ABB PCCU software, you must select the “ABB PCCU Connector” in the instrument settings and then click “Edit” to configure the connector-specific settings.

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 for Processing Method 1

If you will be using Processing Method 1, then click “Spreadsheet Output: Option-3 Automation Format”. The only other setting you may need to set for the ABB PCCU Connector is the “Export Folder to Monitor”. However, unless you are processing results from multiple instruments, you shouldn’t need to change this setting from the default folder.

Important: If you change this folder, you will need to edit the batch file, “C:\PCCU\spreadsh\ezxcopy.bat” so that it copies the results file to the new 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 PCCU. 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.

Configure the Connector for Processing Method 2

If you will be using Processing Method 2, then click “No Spreadsheet Output: Standard PCCU Run Report Format”. In addition, you should confirm that the PCCU Run Reports Folder is set to the location where PCCU saves the run report files on your system. If it is not set to the correct folder, then click the browse button, […], and choose the correct folder.
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