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# BioPhase 8800 Driver for Empower™

Release Notes

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This guide provides information about, and procedures for, installing the BioPhase 8800 driver for Empower™. The BioPhase 8800 driver for Empower™ enables data acquisition from a BioPhase 8800 system that uses the Waters Empower™ software version 3 (FR5) or version 3.7. The BioPhase 8800 driver for Empower™ must be installed on the same computer as the Waters Empower™ software.

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**Note:** Do not use the BioPhase 8800 driver for Empower™ on a BioPhase 8800 system that uses the BioPhase software. If the BioPhase 8800 driver for Empower™ and the BioPhase 8800 software are used at the same time, then problems with the software or the system can occur.

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# Requirements

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## Operating System Requirements

This version of the software is compatible with Microsoft Windows 10, 64-bit. For computer requirements, refer to the section: [Computer Requirements](#).

## Computer Requirements

The computer must meet the minimum requirements for Microsoft Windows 10, 64-bit software. For more information, refer to the documentation supplied by Waters.

For the configuration of the validated computer, refer to the section: [Validated Computer Configuration](#).

## Validated Computer Configuration

**Table 2-1 Validated Computer Configuration for Waters Empower™ Software**

Item	Specification
Operating system	Microsoft Windows 10
Additional software	Waters Empower™ software  For Waters Empower™ software version 3 FR5: Oracle client version 18.3.0.0 for 32-bit  For Waters Empower™ software version 3.7: Oracle client version 19.3.0.0 for 32-bit
Additional software	OS Windows Media  .NET Framework version 4.7.2 or later
Free disk space	2 GB for Waters Empower™ software
Monitor	Minimum: 1024 × 768 resolution (except for LAC/E modules)  Recommended: 1920 × 1080 resolution for client
CPU	Heatsink 5820 Tower

## Requirements

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**Table 2-1 Validated Computer Configuration for Waters Empower™ Software (continued)**

Item	Specification
Random access memory (RAM)	32 GB 2 × 16 GB DDR4 3200 MHz RDIMM ECC memory
Solid-state drive	M.2 1 TB PCIe NVMe Class 40
Ethernet adapters	Ethernet port for network connectivity

## Required Software

The Waters Empower™ software version 3 must be installed. The BioPhase 8800 driver for Empower™ was validated with the Waters Empower™ software version 3 FR5 and version 3.7.

## Additional Software

For additional data-processing functions:

- To do qualitative and quantitative analysis calculations for CE-SDS, cIEF, and RNA applications, the Waters Empower™ GPC software is required.
- To do standard pharmacopoeia calculations such as resolution or noise and drift, the Waters Empower™ System Suitability software is required.

To purchase a license for either software, contact a Waters sales representative.

# Installation Instructions

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**Note:** Internet access is required to download the software. We recommend that all of the required software and materials be downloaded before the scheduled installation to decrease the time required for the installation.

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## Download the Method and Project Files for the Waters Empower™ Software

SCIEX supplies method and project files for use with the Waters Empower™ software. The files are compatible with Waters Empower™ software version 3 FR4 and later.

1. Go to [sciex.com/software-support/software-downloads](https://sciex.com/software-support/software-downloads), and click **Download software**.
2. Download the method files:
  - a. In the More software downloads section, click **BioPhase Driver Resources**, and then click `BioPhase-Empower-Method-Files-1.3.zip`.
  - b. In File Explorer, browse to and then right-click the file: `BioPhase-Empower-Method-Files-1.3.zip`, and then click **Extract All**.
  - c. Browse to the location to save the method files, click **Select Folder**, and then click **Extract**.  
The method files are extracted and copied to the selected location.
3. Download the project files:
  - a. In the More software downloads section, click **BioPhase Driver Software**, and then click `BioPhase-Empower-Project-Files-1.3.zip`.
  - b. In File Explorer, browse to and then right-click the file: `BioPhase-Empower-Project-Files-1.3.zip`, and then click **Extract All**.
  - c. Browse to the location of the LAC/E acquisition server, click **Select Folder**, and then click **Extract**.  
The project files are extracted and copied to the selected location.

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**Note:** For correct system operation, the .NET Framework version 4.7.2. or later must be installed. If the .NET Framework version 4.7.2 or later is not installed, then click the file: `ndp472-kb4054530-x86-x64-allos-enu.exe` in the `BioPhase-EmpowerDriver-Software-1.3.zip` and follow the on-screen instructions to install the .NET Framework version 4.7.2.

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# Install the BioPhase 8800 Driver for Empower™

1. In File Explorer, browse to and then double-click the file:  
`BioPhase.Installer.Empower_Build_1.3.23.msi`.  
The Setup Wizard opens.
2. Follow the on-screen instructions to install the software.
3. On the End-User License Agreement page, click **I accept the terms in the License Agreement**, and then click **Next**.

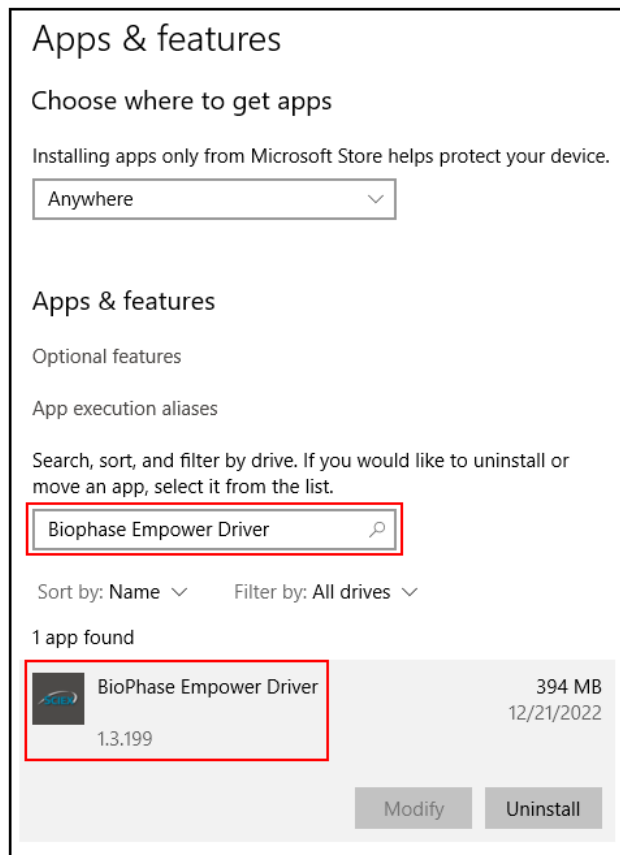
**Figure 3-1 End-User License Agreement Page**



4. Click **Finish**.
5. Make sure that the driver is installed successfully:
  - a. In the Windows search bar, type `Add or remove programs`.
  - b. Click **Add or remove programs**.
  - c. In the **Search this list** field, type `BioPhase Empower Driver`.



Figure 3-2 Apps &amp; features Window



- d. Make sure that the version number starts with 1.3.

**Note:** If the BioPhase 8800 driver for Empower™ must be removed and installed again, then restart the system after the BioPhase 8800 driver for Empower™ is removed and before the installation is started.

## Activate the License for the BioPhase 8800 Driver for Empower™

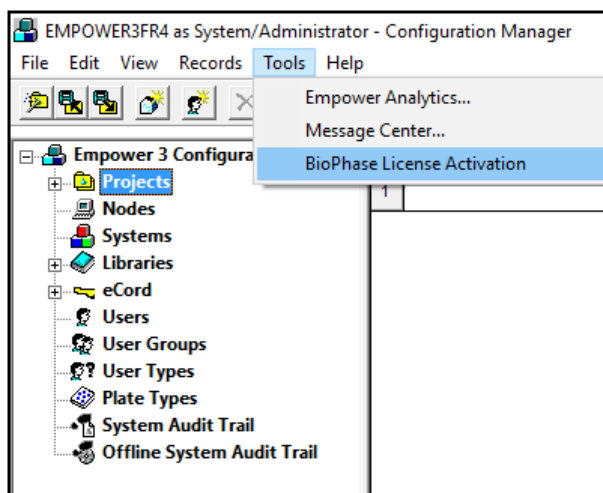
The license must be activated from the LAC/E acquisition server by a user with Administrator privileges. Do not activate the license with the Citrix software or on a client application.

1. On the desktop, double-click the **Empower** icon, and then log on as a user with Administrator privileges.
2. Click **Configure the System**.
3. Click **Tools > BioPhase License Activation**.

## Installation Instructions

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**Figure 3-3 BioPhase License Activation**



4. Follow the on-screen instructions.

**Figure 3-4 BioPhase Empower Driver Activation Dialog**

BioPhase Empower Driver Activation

**For server-based license activation,  
close this window and contact the IT department.**

**To start a node-locked license activation,  
obtain and install a license file by doing the following:**

A license file is required to activate, close this window and contact the IT department.  
Note: Optionally, a demo license key can be used. It unlocks the software for a limited period.

1. Enter the license key from the license certificate or packaging here:
2. Record the following computer ID:  
  
**Copy ID to Clipboard**
3. Click the following link and follow the instructions: <https://sciex.com/request-support>  
After the required information is submitted, SCIEX sends the license file by email.
4. Save the license file from the email message to the Desktop.
5. Click the following button below to install the license file.  
**Install License File...**

For assistance, click [FAQs](#) **Close**

5. In step 1 of the BioPhase Empower Driver Activation dialog, type the license key.  
The license key might be supplied on a printed activation certificate or in an e-mail from SCIEX Now. If the license key is missing, then contact a SCIEX sales representative.

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**Note:** The license key starts with *AID* and is followed by 32 characters, which are 8 segments of 4-digit codes, separated by hyphens.

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After the license key entry is made, the **Copy ID to Clipboard** and **Install License File** buttons and the link in step 3 become available.

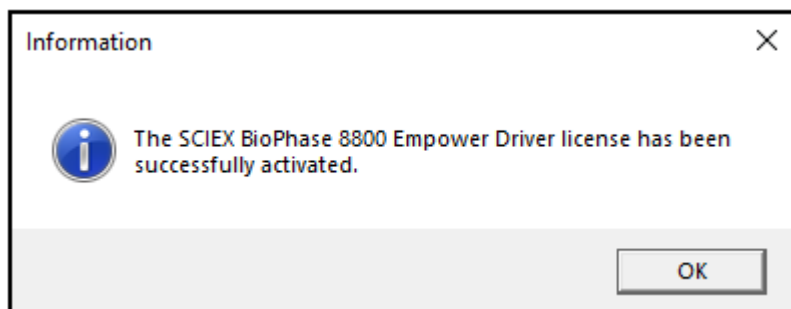
6. Click the link in step 3.  
The SCIEX Login web page opens.
7. To log on to an existing SCIEX account, click **Log In**, or click **Create an Account**.  
When account creation or log on is complete, the SCIEX software activation web page opens. The first name, last name, and e-mail address of the user show in the first three fields of the form. The value in the **License Key** field is supplied automatically.

## Installation Instructions

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8. (Optional) If a license is being activated for the BioPhase 8800 driver for Empower™ on a different computer, then type the computer ID, which is the MAC address of the network port used to connect the computer to the network, and the license key in the fields.
9. (Optional) If the **Computer ID** field is empty, then copy and paste the computer ID:
  - a. In the BioPhase Empower Driver Activation dialog, click **Copy ID to Clipboard**.
  - b. On the SCIEX software activation web page, paste the computer ID in the **Computer ID** field.
10. (Optional) In the **Nickname** field, type a name.
11. In the **Select Your Instrument** field, select and type the required information.
12. In the **Serial Number** field, type the serial number of the BioPhase 8800 system.  
The serial number is on the back panel.
13. Click **Submit**.
14. To download and save the license file, do one of the following:
  - In the dialog that opens, click **Download Now** to download the license file, and then save the file to a local file path.
  - In the e-mail that is sent, download the license file, and then save the file to a local file path.
15. In the BioPhase Empower Driver Activation dialog, click **Install License File**, and then select the location to save the license file.  
If the license file is valid, then the BioPhase Empower Driver Activation dialog closes and the following message shows.

**Figure 3-5 Information Message**



## Configure the Node

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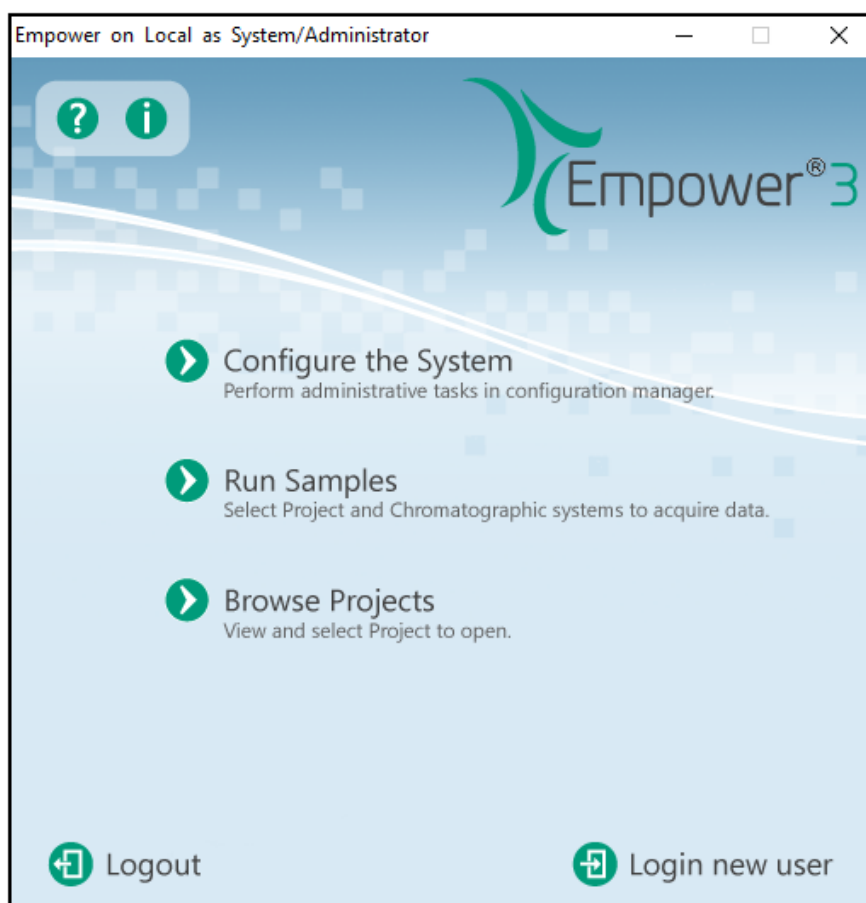
**Note:** Before doing this procedure, configure the acquisition server in the Waters Empower™ software. For instructions, refer to the manufacturer documentation that came with the software.

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Use the following procedure to configure the Waters Empower™ software to operate with the BioPhase 8800 system.

1. On the desktop, double-click the **Empower** icon, and then log on as a user with Administrator privileges.

**Figure 3-6 Waters Empower™ Start Dialog**



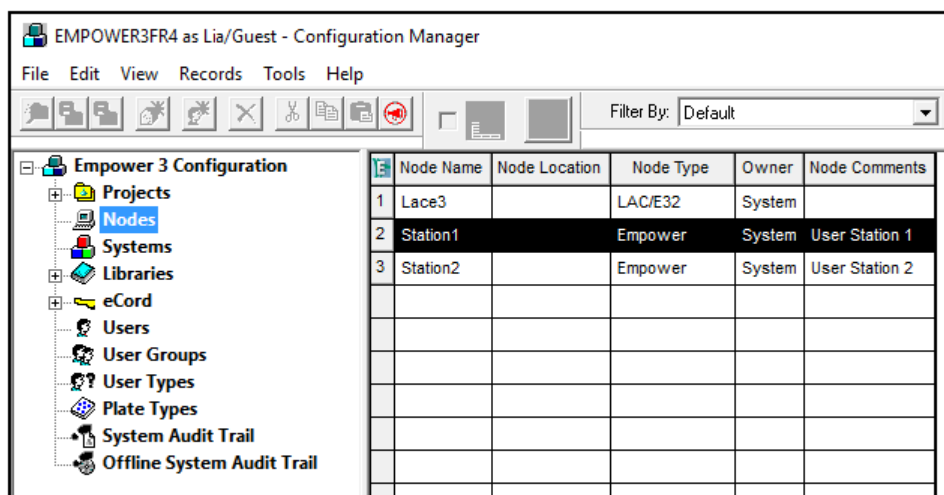
2. Click **Configure the System**.
3. In the Configuration Manager window, in the Navigation panel, click **Nodes**.

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**Note:** The list of nodes in the following figure will show the local Waters Empower™ software configuration.

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**Figure 3-7 Configuration Manager Window**

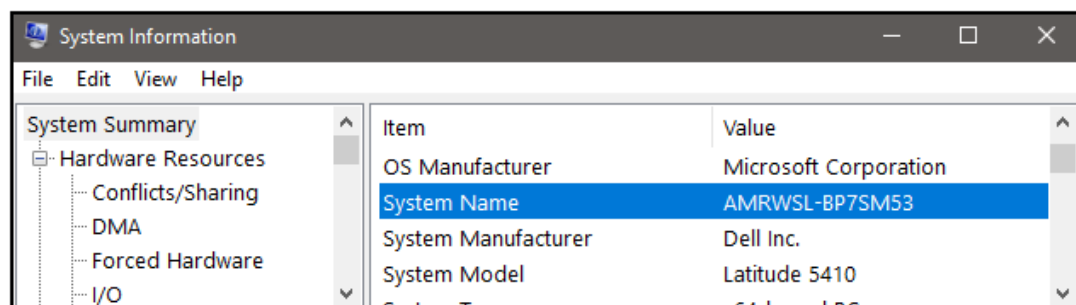


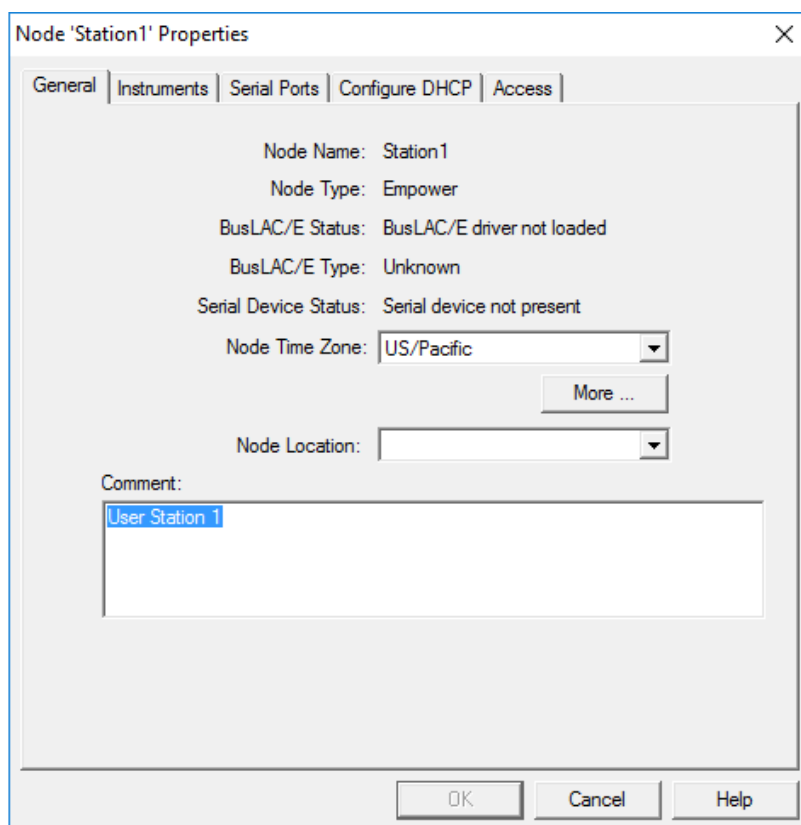
4. In the table, right-click the node to be configured and then click **Properties**.

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**Note:** If the node is not in the table, then right-click the table, and type the name of the LAC/E acquisition server to create a node. To find the name of the LAC/E acquisition server, in the Windows search bar, type `System Information`, open the application, and look for the **System Name**.

**Figure 3-8 System Information Window**



**Figure 3-9 Node Properties Dialog: General Tab**

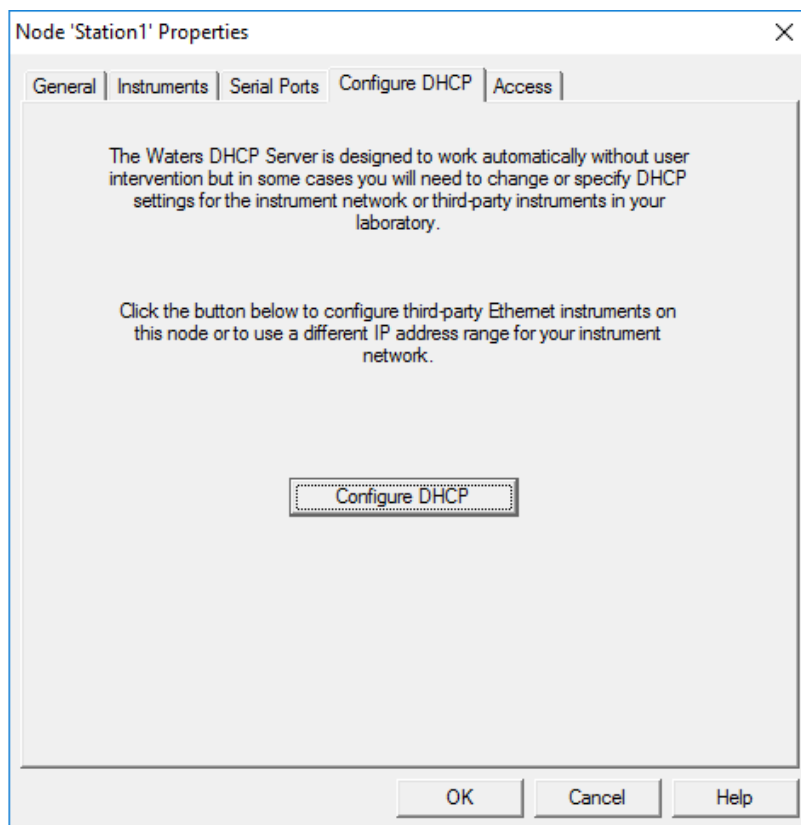
The image shows a Windows-style dialog box titled "Node 'Station1' Properties". It has a tabbed interface with five tabs: "General", "Instruments", "Serial Ports", "Configure DHCP", and "Access". The "General" tab is currently selected. The dialog contains the following fields and controls:

- Node Name:** Station1
- Node Type:** Empower
- BusLAC/E Status:** BusLAC/E driver not loaded
- BusLAC/E Type:** Unknown
- Serial Device Status:** Serial device not present
- Node Time Zone:** A dropdown menu showing "US/Pacific". To its right is a "More ..." button.
- Node Location:** A dropdown menu.
- Comment:** A text area containing the text "User Station 1".

At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

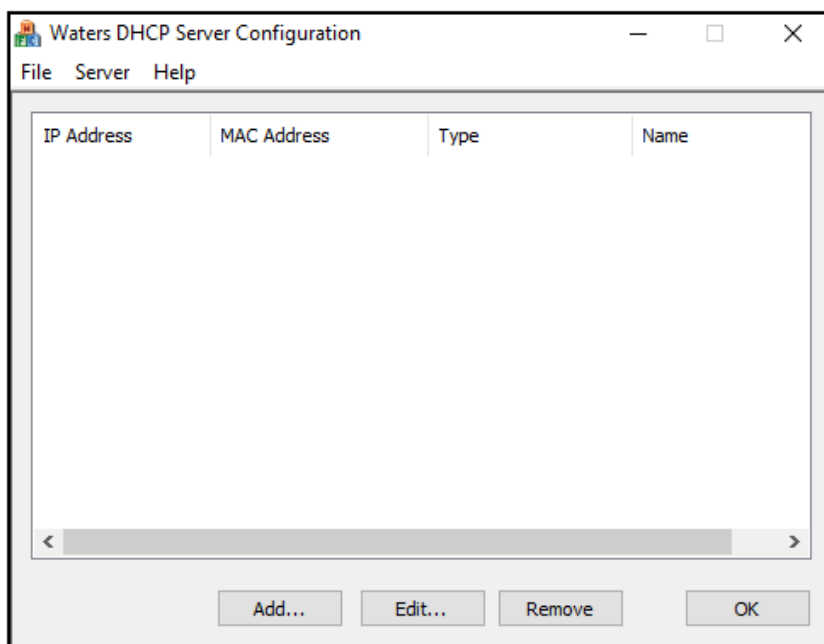
5. Open the Configure DHCP tab, and then click **Configure DHCP**.

**Figure 3-10 Configure DHCP Tab**

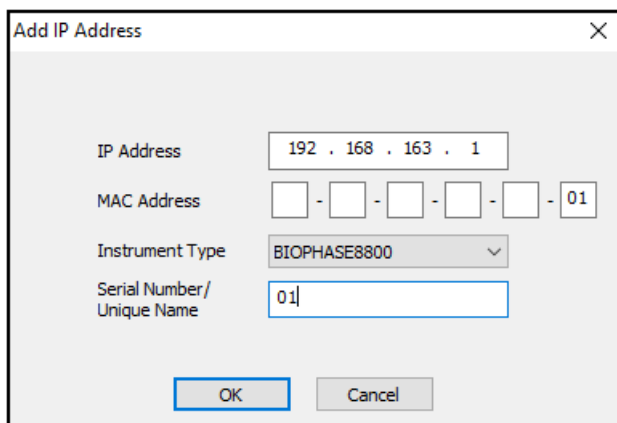


The Waters DHCP Server Configuration dialog opens.



**Figure 3-11 Waters DHCP Server Configuration Dialog**

6. Click **Add**.

**Figure 3-12 Add IP Address Dialog**

7. Update the fields in the dialog:
- In the **IP Address** field, type 192 . 168 . 180 . XX, where XX is that last two digits of the system serial number, plus 10. For example, if the system serial number is 508359000**12**, then the IP address is 192.168.180.**22**.
  - In the **MAC Address** field, type a unique MAC address.
  - From the **Instrument Type** list, select **BIOPHASE8800**.

## Installation Instructions

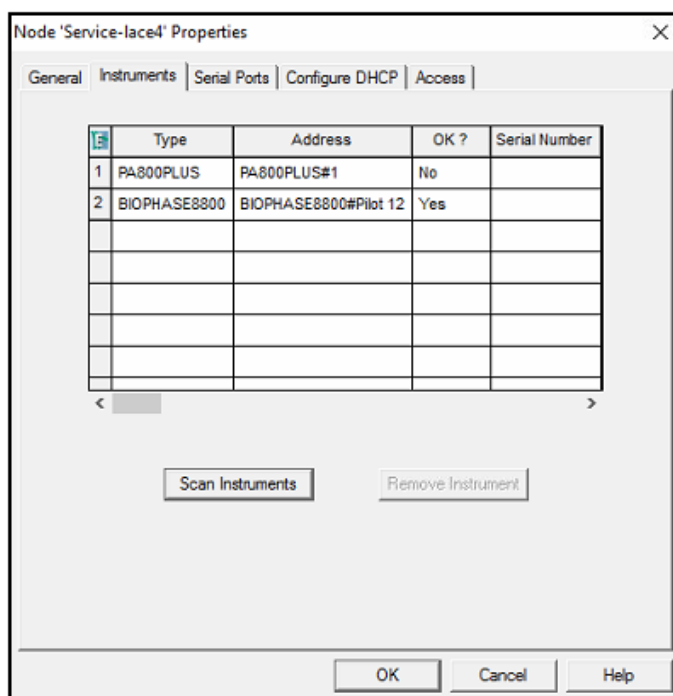
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- d. In the **Serial Number/Unique Name** field, type a unique serial number.
- e. Click **OK** twice.

If a message about the MAC address is shown, then close the message, type any number in the **MAC Address** field, and click **OK**.

8. Open the Instruments tab.

**Figure 3-13 Instruments Tab**

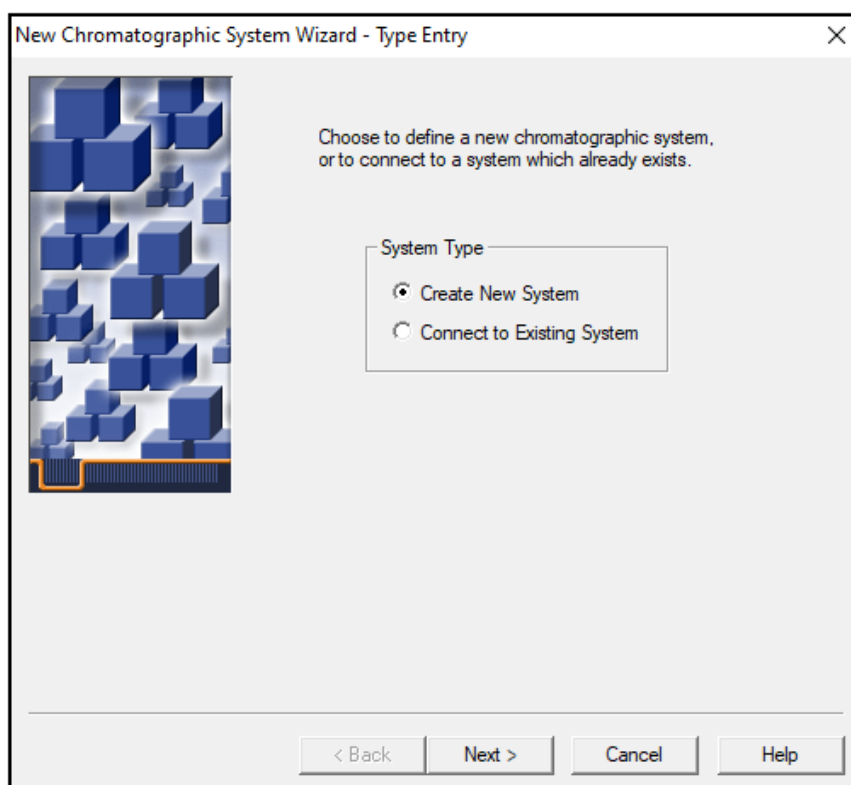


9. Scroll to the bottom of the table, and then click **Scan Instruments**.  
The BioPhase 8800 system should show at the bottom of the table.
10. In the **Serial Number** column, type the serial number for the BioPhase 8800 system, and then click **OK**.

## Add a Chromatographic System

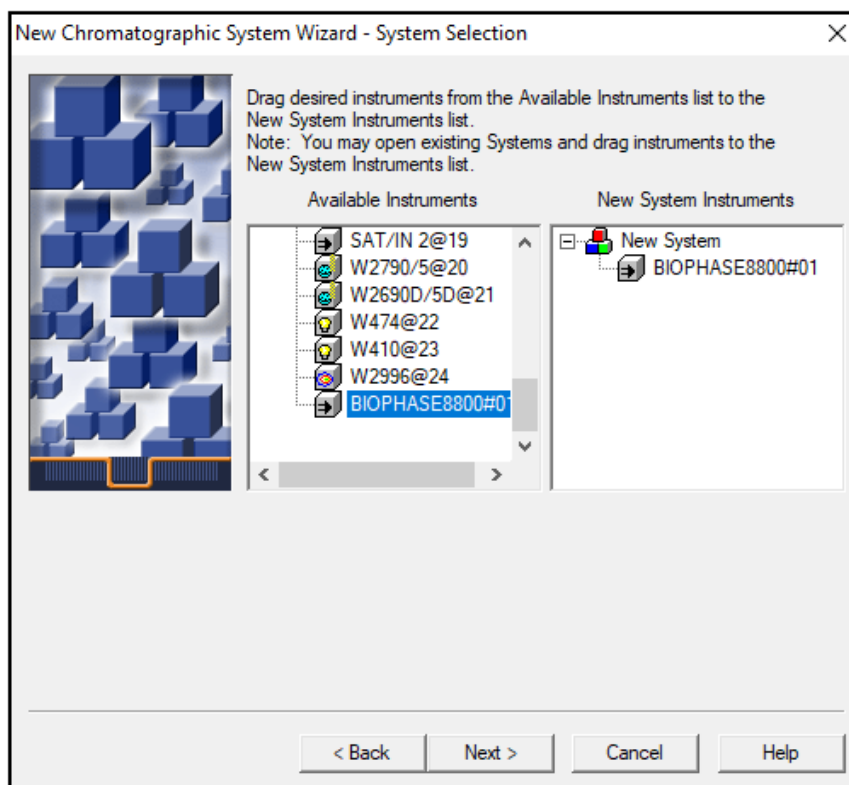
The Waters Empower™ software is used to do chromatography. Any instrument that is connected to the software is referred to as a *chromatographic system*. Before the BioPhase 8800 system can be used, it must be configured as a chromatographic system.

1. In the Configuration Manager window, in the Navigation panel, click **Systems**.
2. Right-click the table, and then click **New**.

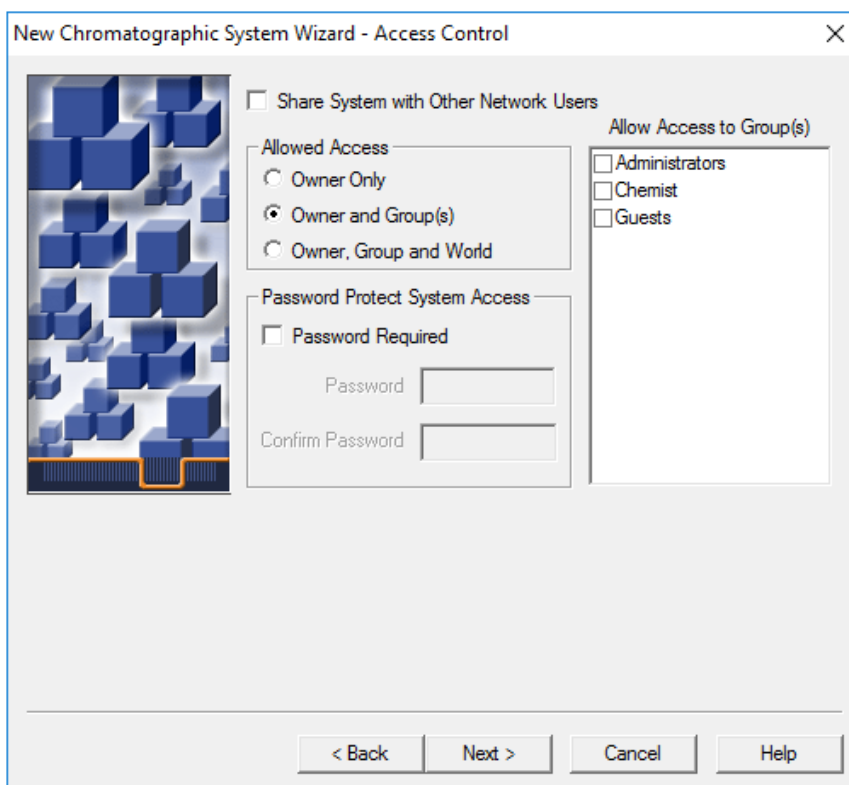
**Figure 3-14 New Chromatographic System Wizard - Type Entry Page**

3. Click **Create New System**, and then click **Next**.

**Figure 3-15 New Chromatographic System Wizard - System Selection Page**

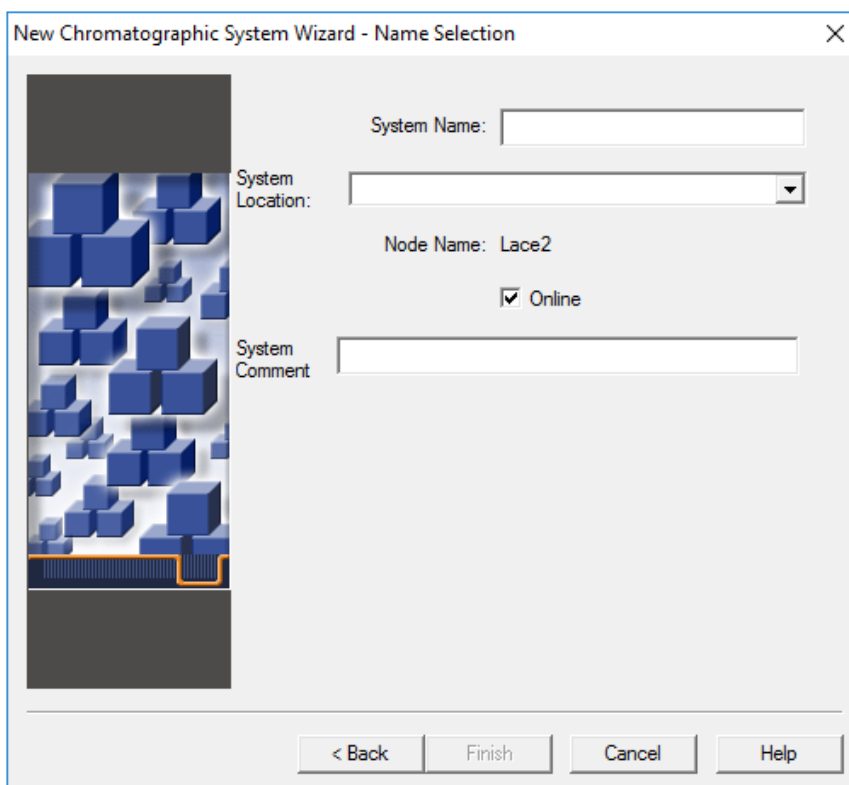


4. In the **Available Instruments** list, double-click the node with the BioPhase 8800 system. The BioPhase 8800 system shows in the **New System Instruments** list.
5. Click **Next**.

**Figure 3-16 New Chromatographic System Wizard - Access Control Page**

6. Update the fields in the Access Control page:
  - a. Select the **Share System with Other Network Users** check box to give other network users access to the system.
  - b. In the Allowed Access section, click the types of users to be given access to the system.
  - c. If access will be given to **Owner and Group(s)** or **Owner, Group, and World**, then select the applicable check boxes in the Allow Access to Group(s) pane on the right. At least one group must be selected.
  - d. To require a password, select the **Password Required** check box. The **Password** and **Confirm Password** fields become available.
  - e. In the **Password** and **Confirm Password** fields, type a password, up to 30 characters.
7. Click **Next**.

**Figure 3-17 New Chromatographic System Wizard - Name Selection Page**



New Chromatographic System Wizard - Name Selection

System Name:

System Location:

Node Name: Lace2

☒ Online

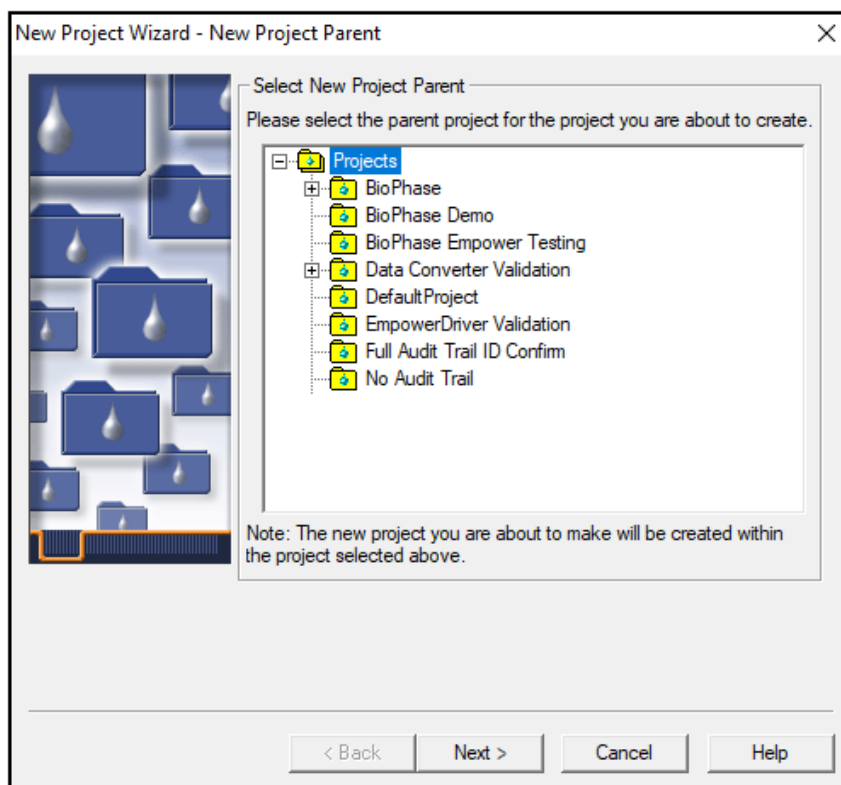
System Comment:

< Back Finish Cancel Help

8. Update the fields on the Name Selection page:
  - a. In the **System Name** field, type the name of the system, up to 30 characters.  
The name is used in the Empower database and the Configuration Manager window.
  - b. Click the **Online** check box to bring the new system online.
  - c. (Optional) In the **System Comment** field, type comments or other identifying information for the system, up to 250 characters.
9. Click **Finish**.  
If a message about an existing system configured in another online system is shown, then click **OK**.
10. If the BioPhase 8800 system is not online, then in the Configuration Manager window, right-click the BioPhase 8800 system and click **Bring Online**.



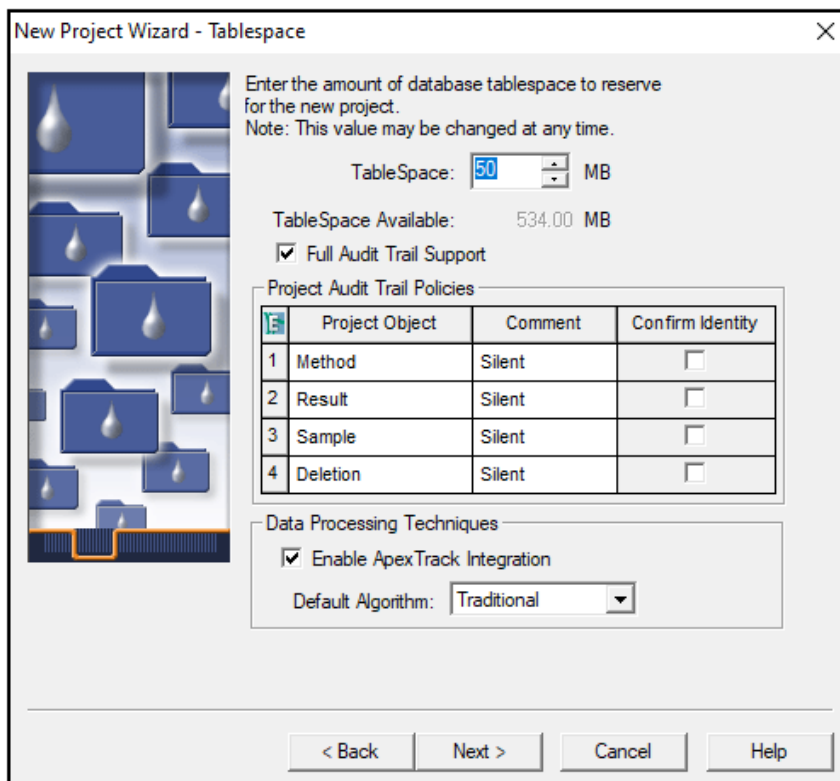
**Figure 3-19 New Project Wizard - New Project Parent Page**



3. Click the applicable parent project, and then click **Next**.



Figure 3-20 New Project Wizard - Tablespace Page



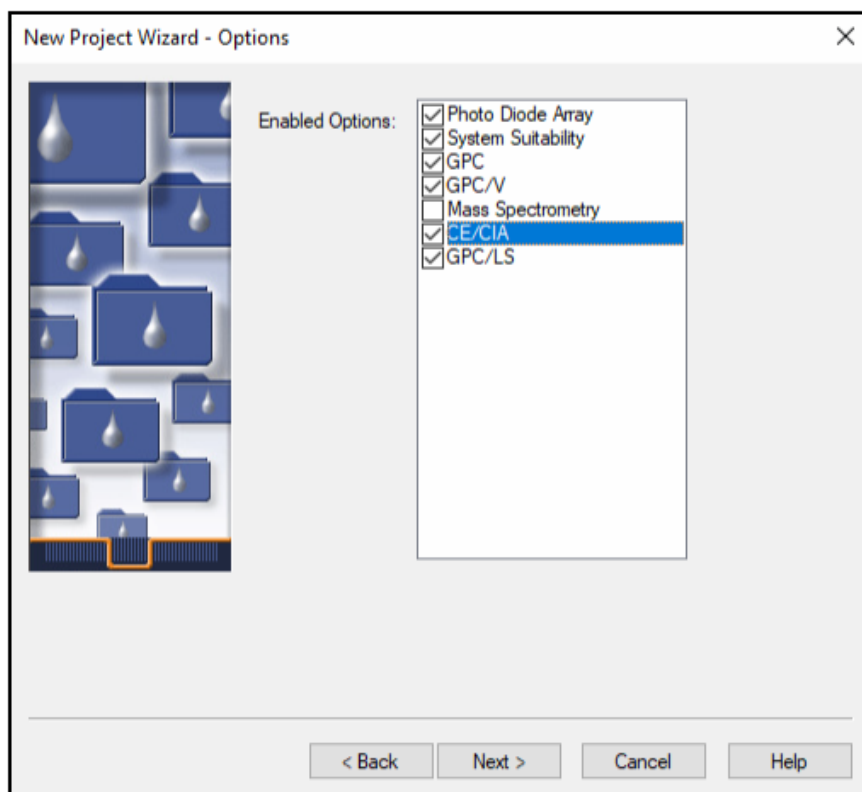
The dialog box is titled "New Project Wizard - Tablespace". It contains a sidebar with folder icons on the left. The main area has the following elements:

- Instruction: "Enter the amount of database tablespace to reserve for the new project. Note: This value may be changed at any time."
- TableSpace: A numeric input field with "50" and a "MB" unit.
- TableSpace Available: "534.00 MB"
- Checkbox: ☒ Full Audit Trail Support
- Section: "Project Audit Trail Policies" containing a table.
- Section: "Data Processing Techniques" containing a checkbox and a dropdown menu.
- Buttons: "< Back", "Next >", "Cancel", and "Help".

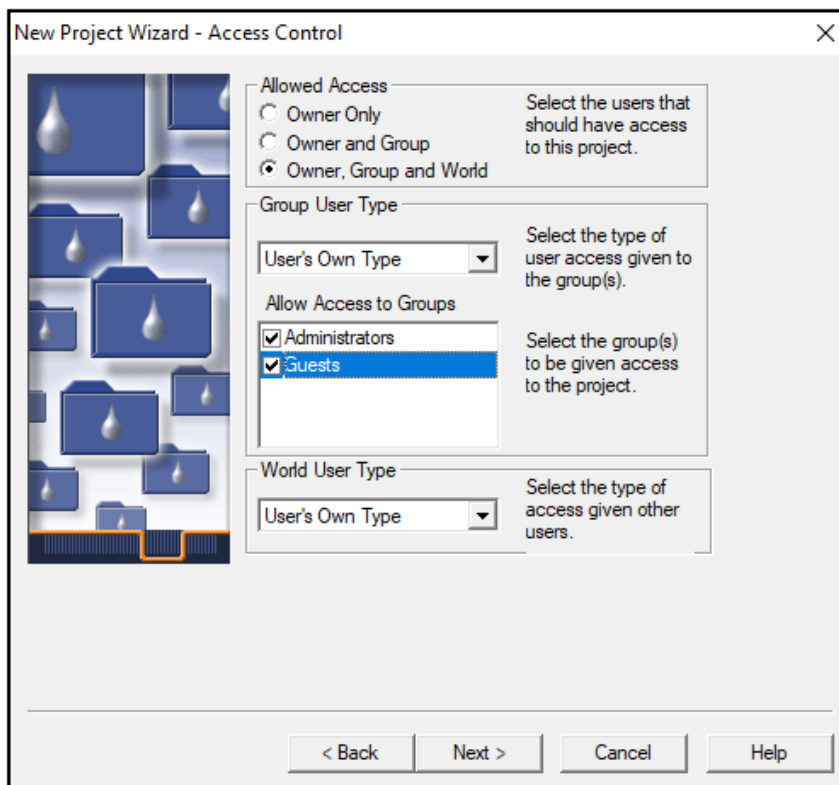
	Project Object	Comment	Confirm Identity
1	Method	Silent	<input type="checkbox"/>
2	Result	Silent	<input type="checkbox"/>
3	Sample	Silent	<input type="checkbox"/>
4	Deletion	Silent	<input type="checkbox"/>

4. Make the applicable selections, and then click **Next**.

**Figure 3-21 New Project Wizard - Options Page**

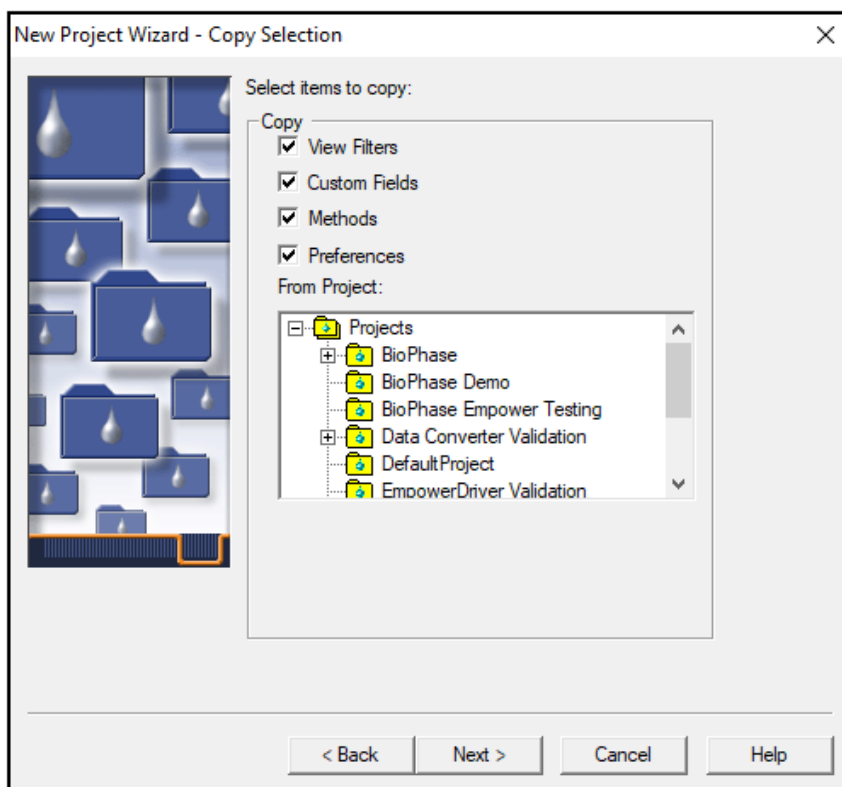


5. Make the applicable selections, and then click **Next**.

**Figure 3-22 New Project Wizard - Access Control Page**

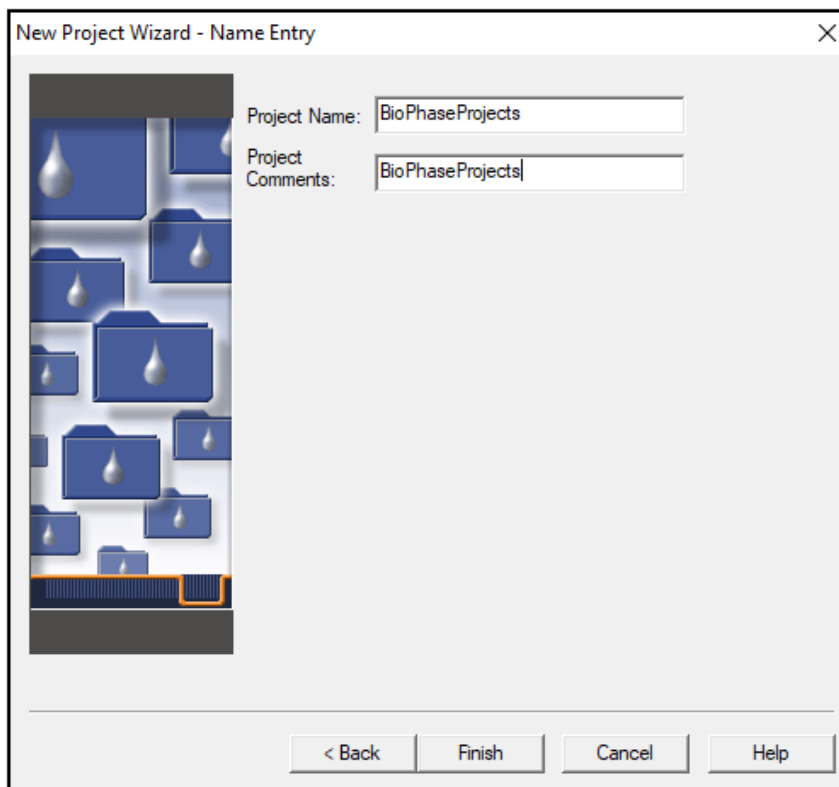
6. Make the applicable selections, and then click **Next**.

**Figure 3-23 New Project Wizard - Copy Selection Page**



7. Make the applicable selections, and then click **Next**.  
If there are no items to copy, then click the **Projects** folder.

Figure 3-24 New Project Wizard - Name Entry Page



8. Type a project name and, if applicable, project comments, and then click **Finish**.

## Configure the System for the BioPhase 8800 Driver for Empower™

By default, the BioPhase 8800 system is configured for use with the BioPhase software. Use the following steps to configure the system for use with the BioPhase 8800 Driver for Empower™.

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**Note:** The user name and pass code given below are the defaults. They might have been changed.

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1. On the Front Panel of the BioPhase 8800 system, in the Login dialog, log on as a user with Administrator privileges:
  - a. In the **Username** field, type `admin`.
  - b. In the **Passcode** field, type `password`.
  - c. Touch **Log In**.
2. Touch **Configuration**.


## Installation Instructions

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3. Touch **Network**.
4. In the Project Management section, do the following steps:
  - a. Select the **Enable Third-Party Control** check box.
  - b. In the **Third-Party Control** list, select **Empower**.
  - c. Touch **Save**.
5. In the BioPhase 8800 section, do the following steps:
  - a. In the **IP Address** field, type the same IP address that was used when the node was configured in the Waters Empower™ software.  
Refer to the section: [Configure the Node](#).
  - b. In the **Subnet Mask** field, type 255.255.255.0.
  - c. Touch **Save**.

**Figure 3-25 Network Settings for the BioPhase 8800 Driver for Empower™**

The screenshot shows a software configuration window with two tabs: 'General' and 'Network'. The 'Network' tab is active. Below the tabs, there are two main sections. The first section, 'Project Management', contains fields for 'Computer Name' (AMRWSL-DXWFWL3), 'IP Address' (127.0.0.1), and 'Domain Name'. Below these is a checked checkbox for 'Enable Third-Party Control' and a dropdown menu for 'Third-Party Control' set to 'Empower'. A green 'Save' button is at the bottom right of this section. The second section, 'BioPhase 8800', contains fields for 'IP Address' (192.168.180.10) and 'Subnet Mask' (255.255.255.0). A green 'Save' button is at the bottom right of this section.

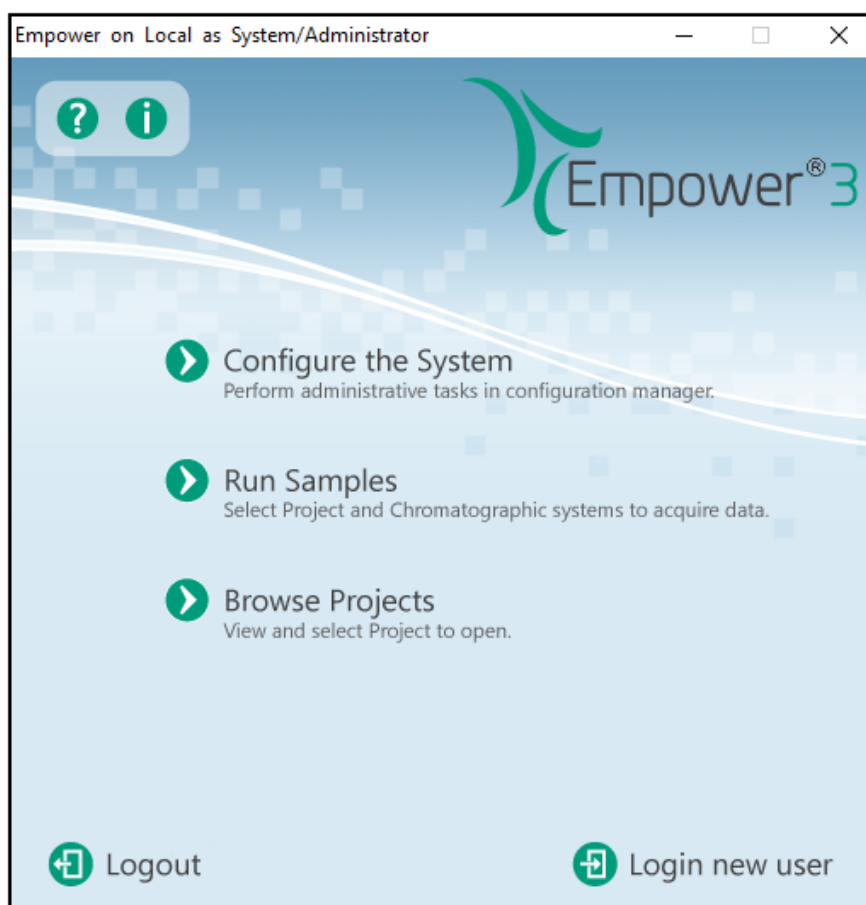
6. Turn off and then turn on the BioPhase 8800 system:
  - a. In the top left corner of the touchscreen, touch  (**System** icon).
  - b. Touch **Power Off**.
  - c. Press the power button on the front of the system.

## Restore the Method Files for the Waters Empower™ Software

If the method files that were originally downloaded cannot be used, then do this procedure to restore the method files for use with the Waters Empower™ software. The method files are compatible with Waters Empower™ software version 3 FR4 and later.

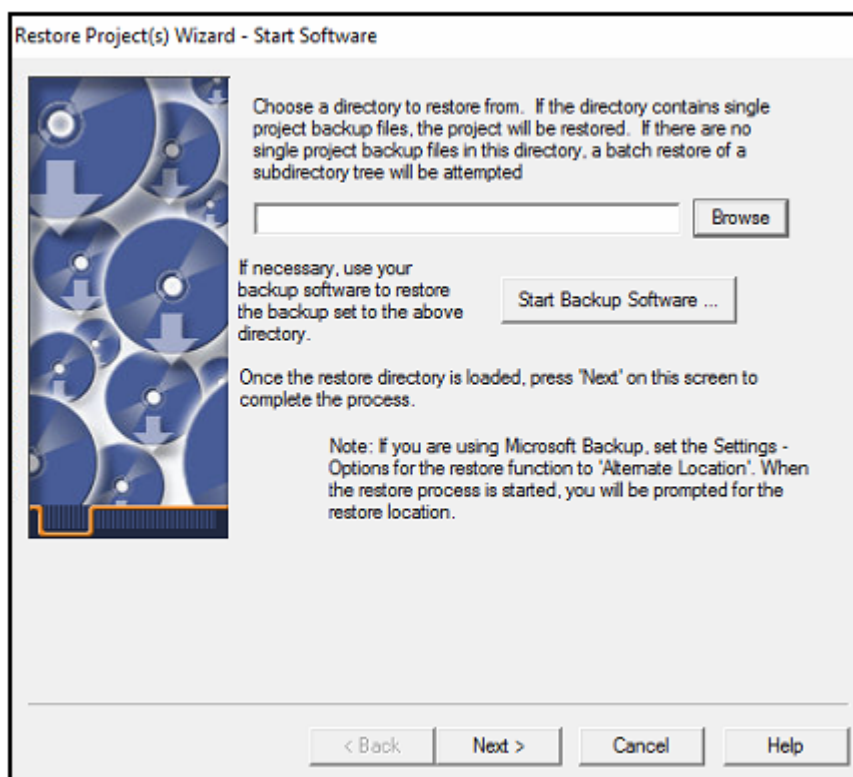
1. Download the method files. Refer to the section: [Download the Method and Project Files for the Waters Empower™ Software](#).
2. On the desktop, double-click the **Empower** icon, and then log on as a user with Administrator privileges.

**Figure 3-26 Waters Empower™ Start Dialog**



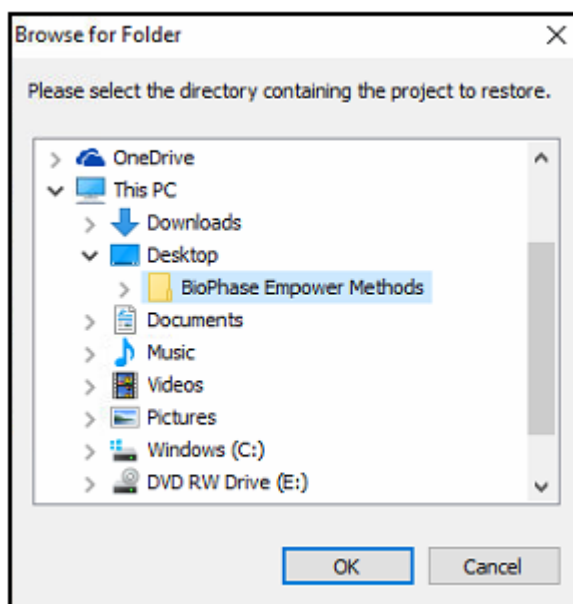
3. Click **Configure the System**.
4. Click **File > Restore Project**.

**Figure 3-27 Restore Project Wizard - Start Software Page**



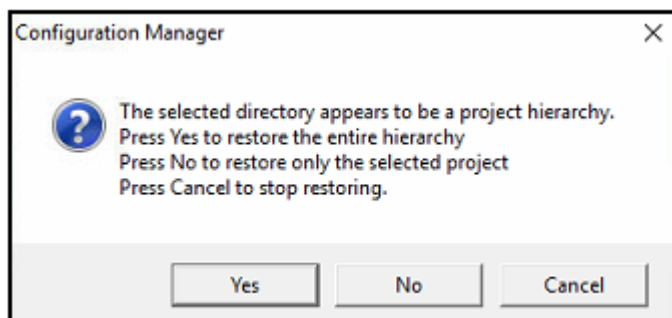
5. Click **Browse**, browse to the location where the method files were saved originally, click the `BioPhase Empower Method` folder, and then click **OK**.



**Figure 3-28 Browse for Folder Dialog**

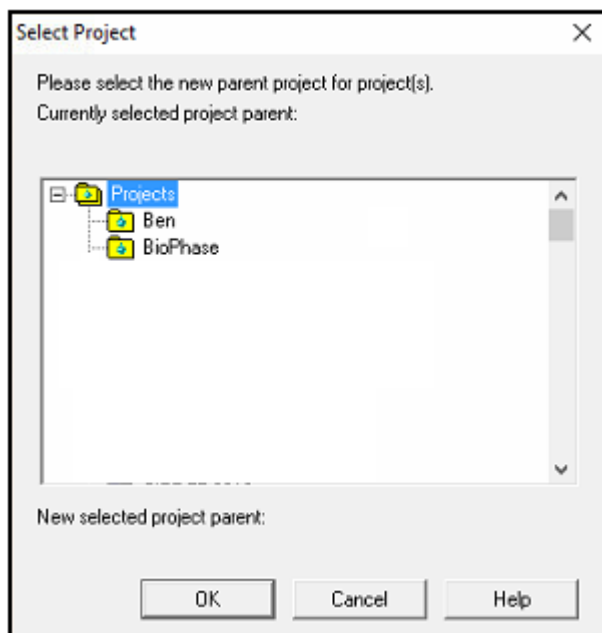
The files are added to the Empower database and are available to all Waters Empower™ software clients.

6. Click **Next**.

**Figure 3-29 Configuration Manager Message**

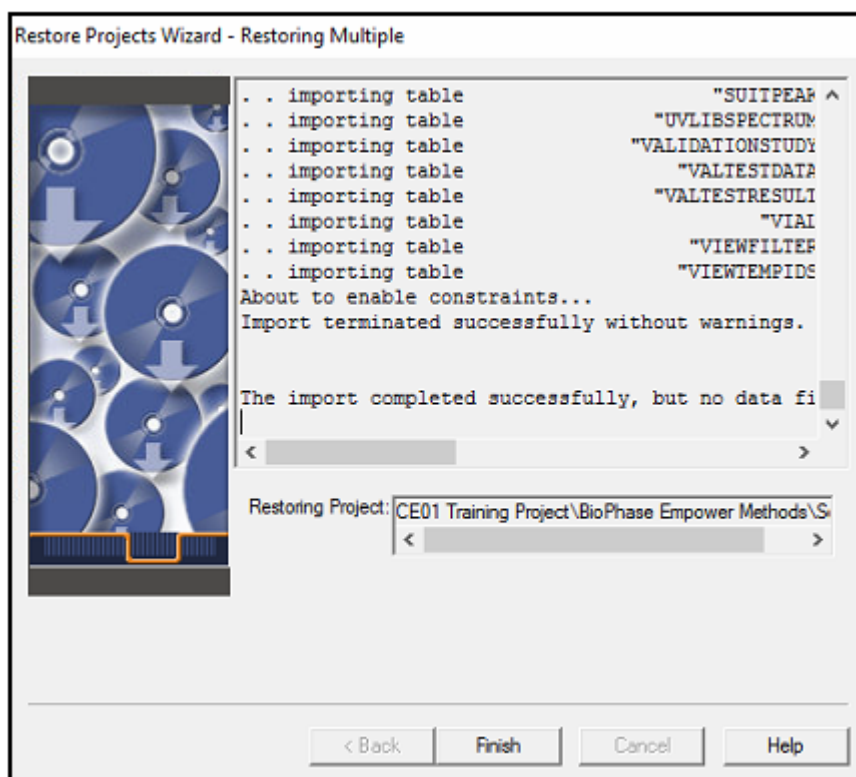
7. Click **Yes**.

**Figure 3-30 Select Project Dialog**



8. Select the parent project in which to save the method files, and then click **OK**.
9. Click **Next**.
10. When the file restoration is complete, click **Finish**.





**Figure 3-31 Restore Project Wizard - Restoring Multiple Page**



# Known Issues in the BioPhase 8800 Driver for Empower™

## 4

**Note:** The numbers in parentheses are reference numbers for each issue or feature in the SCIEX internal tracking system.

Issue	Notes
If the BioPhase 8800 driver for Empower™ and the BioPhase software are used at the same time, then issues with the software or the BioPhase 8800 system can occur. (BRKSW-2802)	Use either the BioPhase 8800 driver for Empower™ or the BioPhase software. Do not use both at the same time.
The .NET Framework version 4.7.2 must be installed before the BioPhase 8800 driver for Empower™ can be installed. (BRKSW-2878)	Install the .NET Framework 4.7.2 before the BioPhase 8800 is installed. Refer to the section: .
If the sample set is long, then the error message does not automatically scroll to the correct error. (BRKSW-2904)	In the validation panel on the right, click the error. If the error does not show in the view, then scroll to the highlighted error.
If the user touches  on the Front Panel, then the system actions stop, but the sample set method that is running in the Waters Empower™ software does not stop. (BRKSW-2922)	To stop both system operation and the sample set method that is running, in the Waters Empower™ software, click  ( <b>Abort</b> ). As an alternative, on the Front Panel of the BioPhase 8800 system, touch  to stop system operation, and then in the Waters Empower™ software, click  ( <b>Abort</b> ) to stop the sample set method.
If the user clicks <b>Set Up</b> in the Instrument Method tool bar in the Run Samples window, then the Waters Empower™ software stops responding. (BRKSW-2974)	Do not click <b>Set Up</b> in the Instrument Method tool bar in the Run Samples window. Use the status panel at the bottom of the BioPhase 8800 driver for Empower™ Direct Control pane to do manual equilibration or set up the system.

## Known Issues in the BioPhase 8800 Driver for Empower™

Issue	Notes
<p>If the actual injection time is longer than the injection time specified in the <b>Run Time</b> column, then an error might occur. (BRKSW-2978)</p>	<ol style="list-style-type: none"> <li>Before a run is started, use Direct Control to prepare the system: <ul style="list-style-type: none"> <li>On the System Status tab for the applicable detector, click <b>Turn On</b>, and then wait for the detector to warm up.</li> <li>On the Temperature tab, in the <b>Set to</b> fields for the cartridge and sample storage, set the temperature, click <b>Accept</b>, and then wait for the compartment to get to the specified temperature.</li> </ul> </li> <li>For shutdown methods, in the BioPhase Instrument Method Editor, on the Method Settings tab, clear the <b>Wait</b> check boxes for <b>Capillary Cartridge</b>, <b>Sample Storage</b>, and the detector.</li> </ol>
<p>If the Citrix software is in use, then the Reagent File Editor does not show the reagent files. (BRKSW-3006)</p>	<p>Import an instrument method, and change the reagents directly in the instrument method.</p>
<p>Regardless of the actual system connectivity, the Instruments tab in the Node Properties dialog shows that the system is set up and ready to use the Waters Empower™ software. (BRKSW-3008)</p>	<p>The correct status of system connectivity shows on the status panel at the bottom of the Direct Control pane.</p>
<p>The system status on the status panel at the bottom of the Direct Control pane shows an error but the Empower Run Samples window shows <code>System Idle</code>. (BRKSW-3015)</p>	<p>Use the status panel at the bottom of the Direct Control pane or the Empower Message Center to see the correct system status.</p>
<p>There is no option to initialize the system from the Run Samples window when the system is in the Error state. (BRKSW-3016)</p>	<p>At the bottom right of the Front Panel of the BioPhase 8800 system, touch the red exclamation mark to open the Events Log, and then click <b>Initialize System</b>.</p>
<p>If the user starts an action that will require a long time to complete, such as loading a large sample set method, before the user interface (UI) has had time to update, then the UI stops responding. (BRKSW-3046)</p>	<p>Before an on-screen action is selected, wait for the UI to load fully.</p>

## Known Issues in the BioPhase 8800 Driver for Empower™

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Issue	Notes
Reagent files are available only on computers where the BioPhase 8800 driver for Empower™ has been installed. Reagent files are not shared with other computers. If the Citrix software is in use, then the reagent files might not be available. (BRKSW-3048)	If the reagent set is not available, then add the reagents on the Reagent Plate Setup tab in the Method Editor when the instrument method is created. To use the same reagents for a different method, open the method and then click <b>SAVE AS</b> to save the method with a different name.
Only <b>psi</b> is available for units of pressure. Options for <b>bar</b> and <b>kPa</b> are not available. (BRKSW-3068)	Use psi.
(LIF) In the Peak Results table, the heading for the <b>Area</b> column shows ( <b>μV*sec</b> ) but the values in the column are in RFU. (BRKSW-3069)	Ignore the column heading.
If a user with Administrator privileges does not log off but applies the screen lock, then a second user can log on and see the last screen that was opened by the user with Administrator privileges. (BRKSW-3101)	A user with Administrator privileges must log off fully.
If the user clicks <b>Alter Running Samples</b> to pause and update the sample set, then an injection occurs when the sample set resumes. (BRKSW-3127)	Only click <b>Alter Running Samples</b> to start the next injection.

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