

How to Update the Chemistry Database in bqEVSW, bqEasy and Battery Management Studio (bqStudio)

User's Guide



Literature Number: SLUUC94

April 2020

1	How to Update the Chemistry Database in bqEVSW and bqEasy	3
1.1	Getting the Latest ChemID Updater for bqEVSW, bqEasy	3
1.2	Updating the Chemistry in bqEVSW, bqEasy	3
1.3	Summary	11
2	How to Update the Chemistry Database in Battery Management Studio (bqStudio)	12
2.1	Getting the Latest ChemID in bqStudio	12
2.2	Updating the Chemistry in bqStudio	13
2.3	Programming the ChemID in bqStudio	14
2.4	Summary	14

How to Update the Chemistry Database in bqEVSU and bqEasy

This chapter describes how to update the chemistry database used by bq Evaluation software and bqEasy. Update the chemistry database if you do not see your battery cell model listed in the software.

1.1 Getting the Latest ChemID Updater for bqEVSU, bqEasy

NOTE: bqEVSU, bq Evaluation software (bqEVSU), and bqEasy must be installed on the PC before using the contents of this guide.

- Download the latest bqEVSUbqEasy chemistry updater from the [Gas Gauge Chemistry Updater](#) tool page.

1.2 Updating the Chemistry in bqEVSU, bqEasy

After downloading the file, run the executable with admin privileges.

-  A blue box on a GUI image, indicates something the user clicks.
-  A red box on a GUI image indicates information for the user.

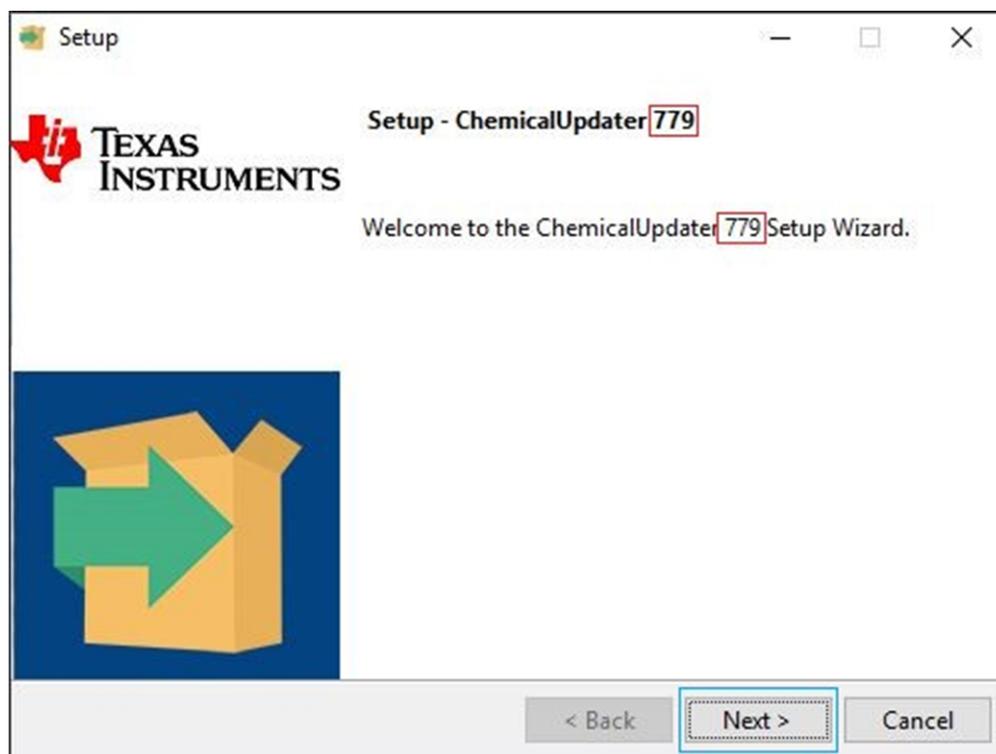


Figure 1-1. License Agreement ChemicalUpdater

Accept the agreement and click the **Next** button.

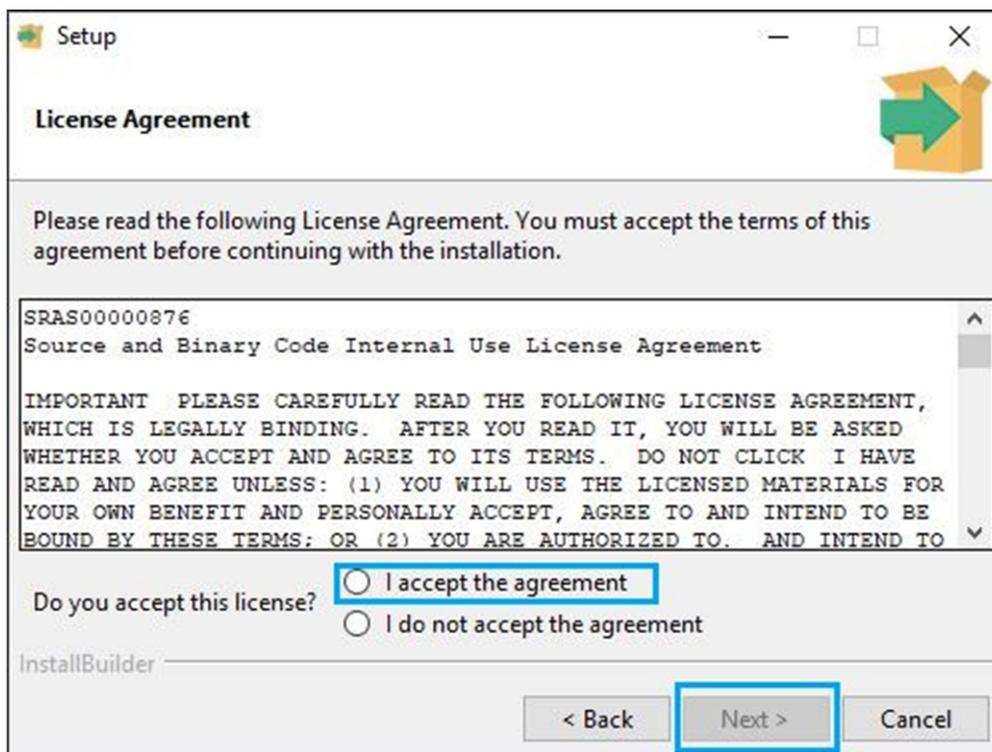


Figure 1-2. Next ChemicalUpdater

Do not change location. Click the **Next** button.

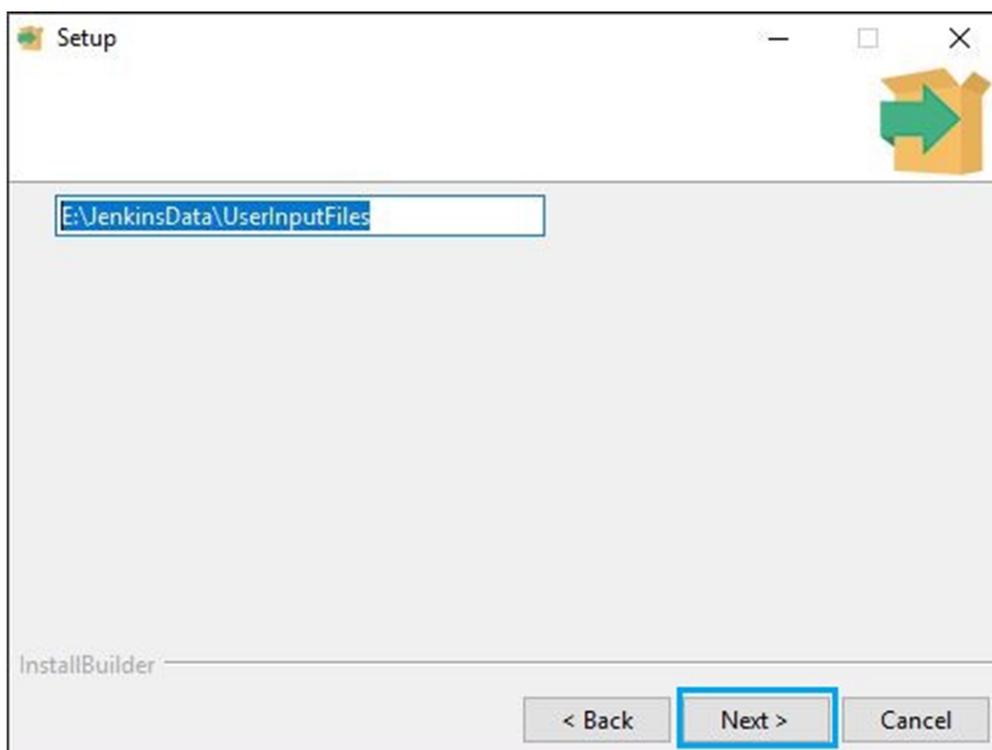


Figure 1-3. Install ChemicalUpdater

Click the **Next** button.

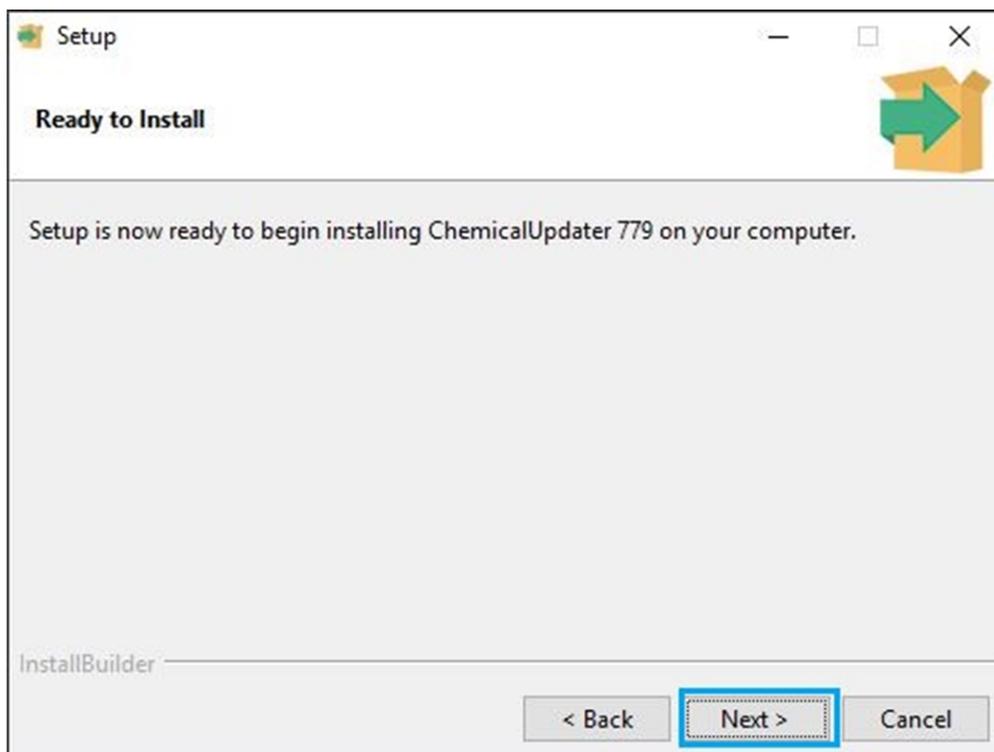


Figure 1-4. Installing ChemicalUpdater

Wait for the files to finish copying and click the **Next** button.

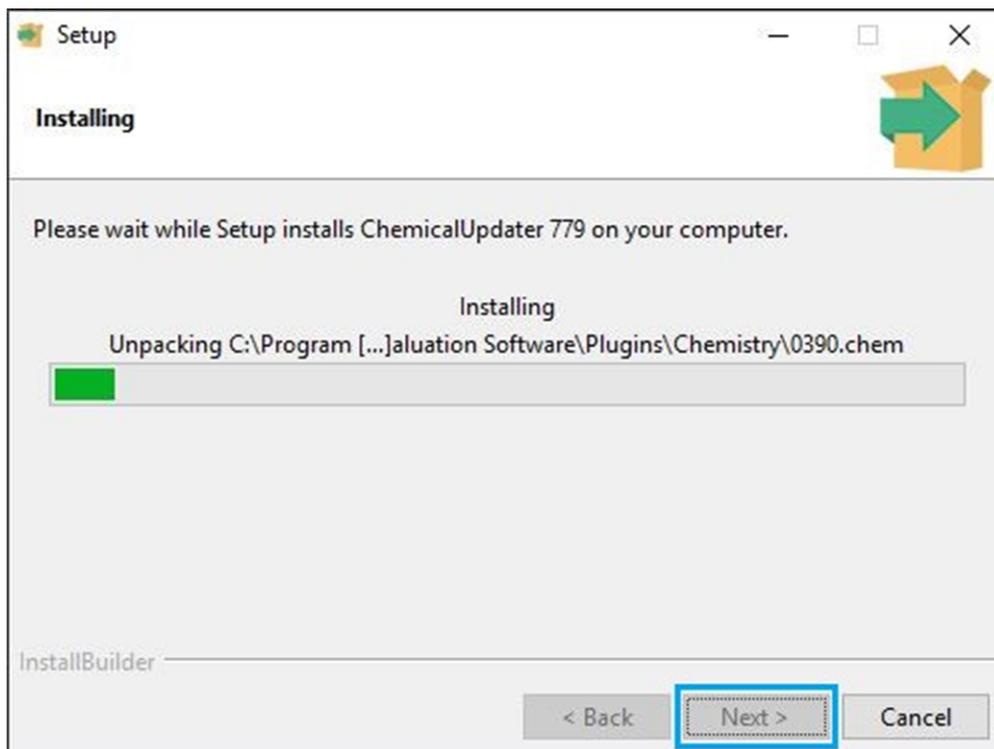


Figure 1-5. Installation Completion Choices

If you leave the checkbox checked, it will run EVSU when you click the **Next** button.

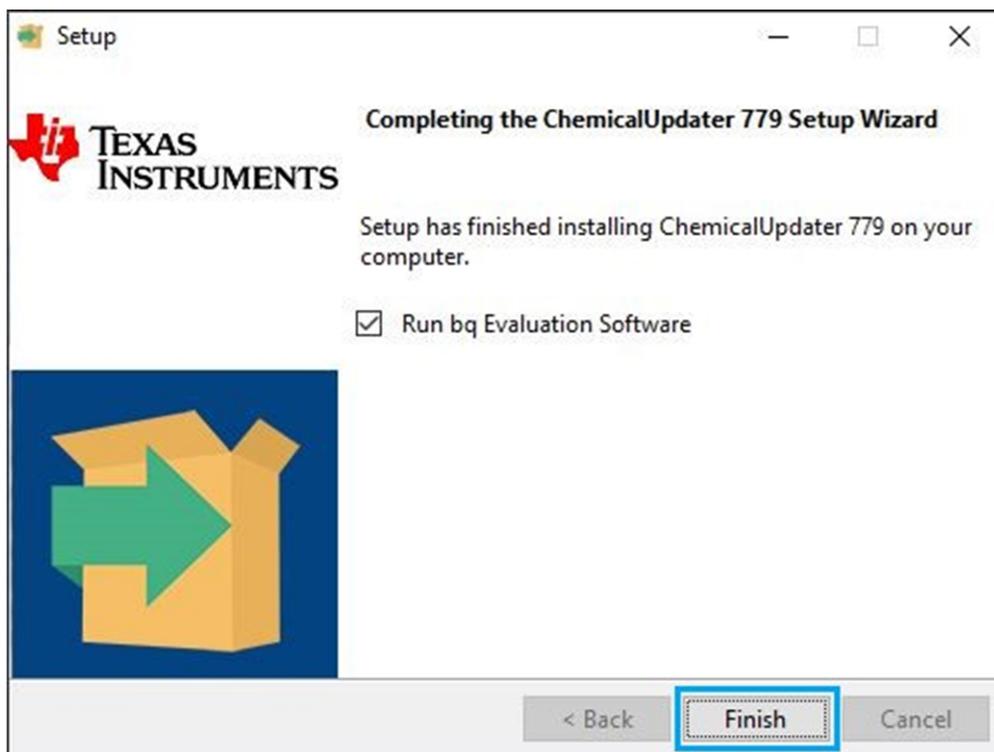


Figure 1-6. Setup Wizard Finish ChemicalUpdater

If you get this error, just click the **OK** button.

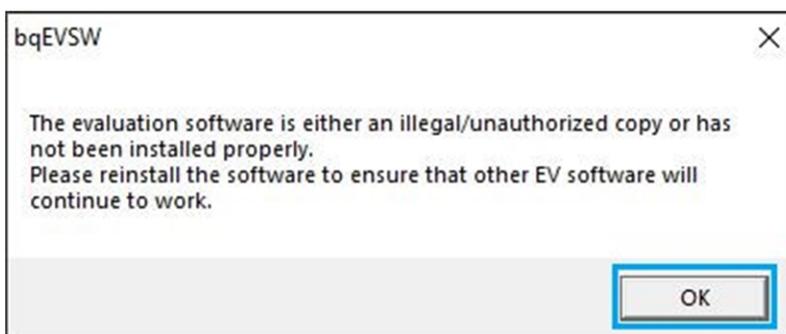


Figure 1-7. bqEVSU OK

This version you download will be different. Your version depends on which gauge you use. You do not need the latest version, some versions do not support all gauges.

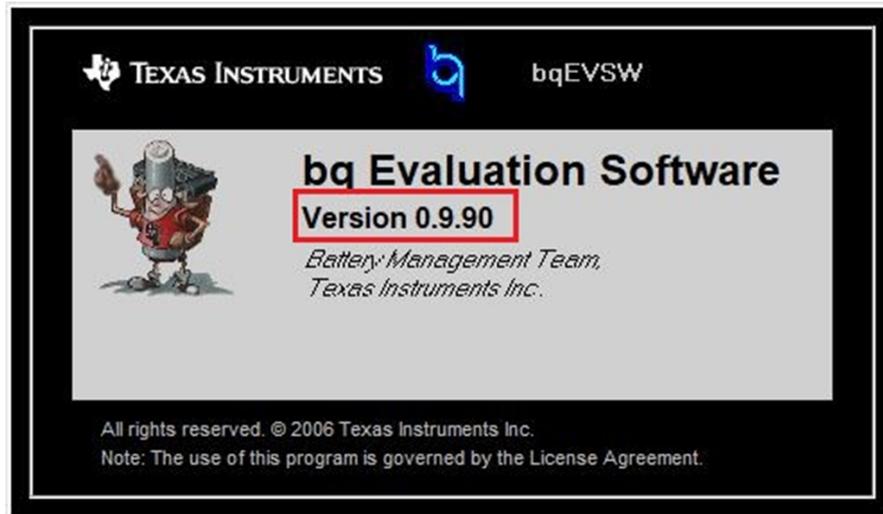


Figure 1-8. bqEVSW Version

Not required: Click the **Refresh** button to make sure your gauge is powered up and communicating.

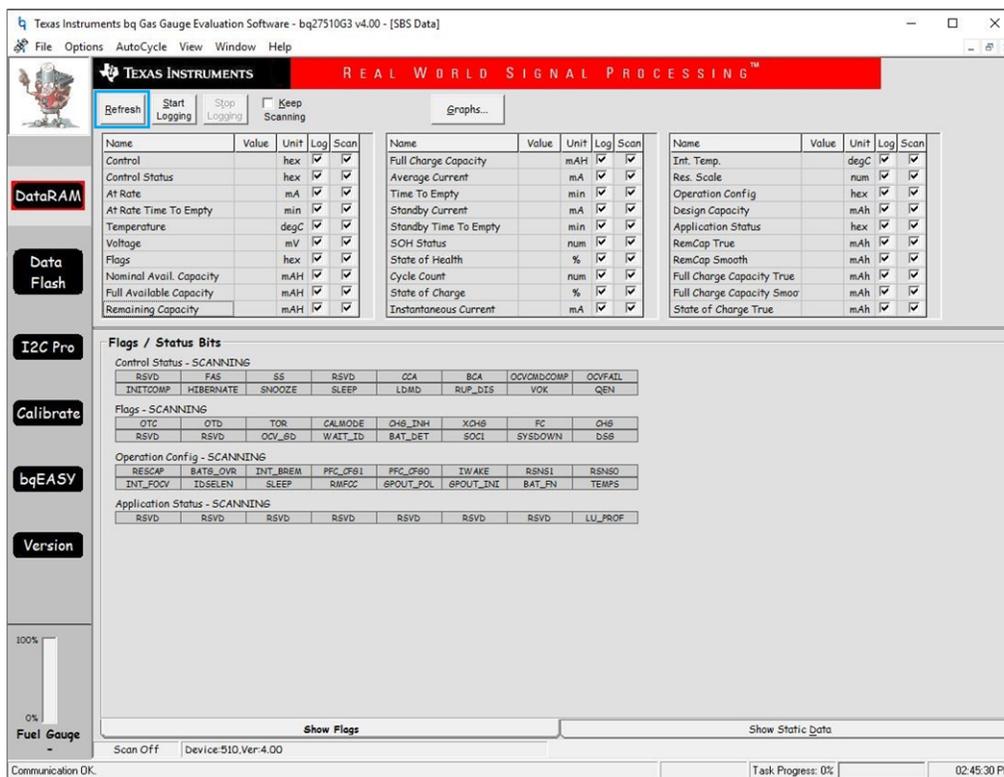


Figure 1-9. bqEVSW Gas Gauge Eval SW SBS Data

Your screen will vary depending on the gauge you are using. Click the **bqEASY** button.



Figure 1-10. bqEVSW Gas Gauge Eval SW DataRam

Click the **4. Chemistry** tab.

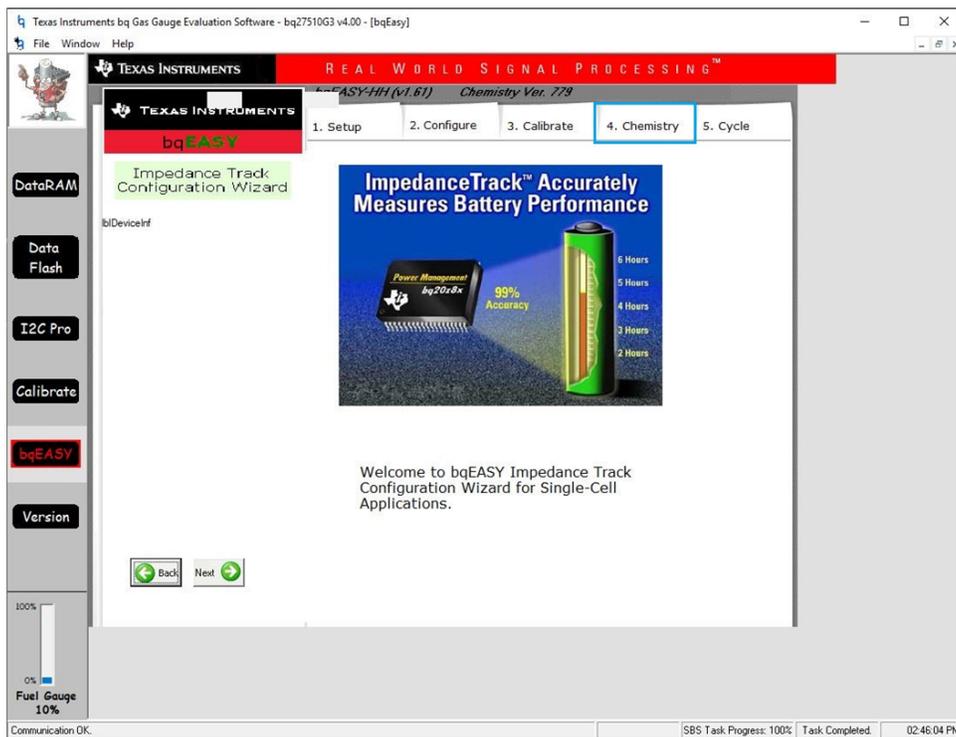


Figure 1-11. bqEVSW GG Eval SW Chemistry

Click the **Yes, Enable Chemistry Selection** button.

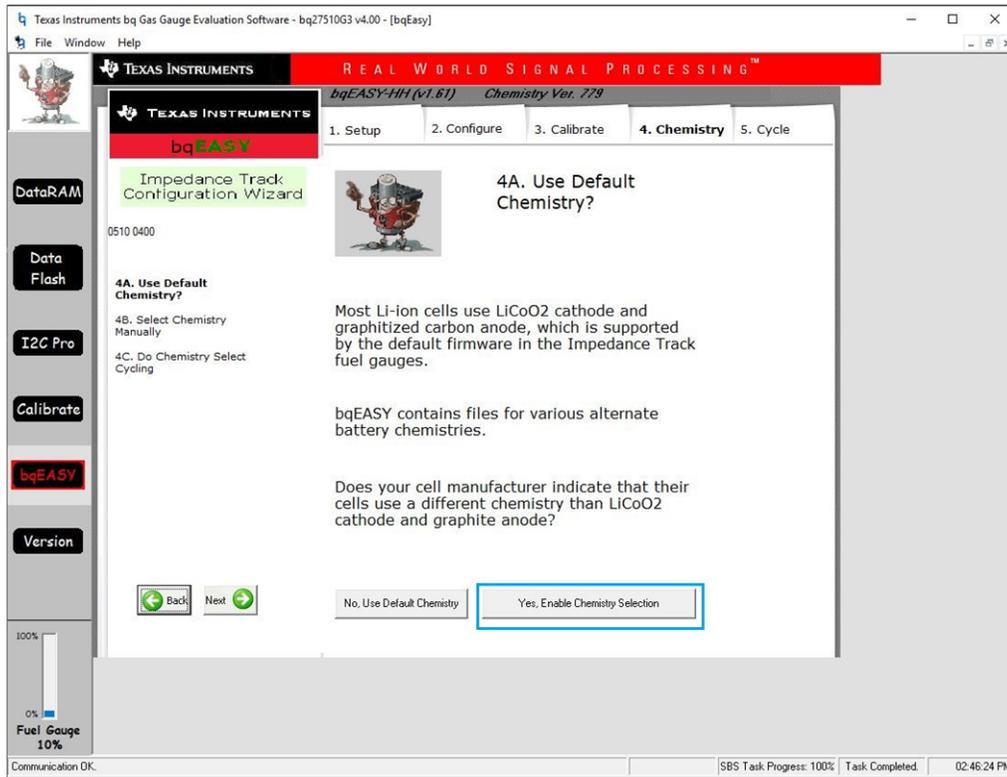


Figure 1-12. bqEVSW GG Eval SW Enable Chemistry

Use the scroll bar to scroll down to your ChemID # on the left side of the GUI.

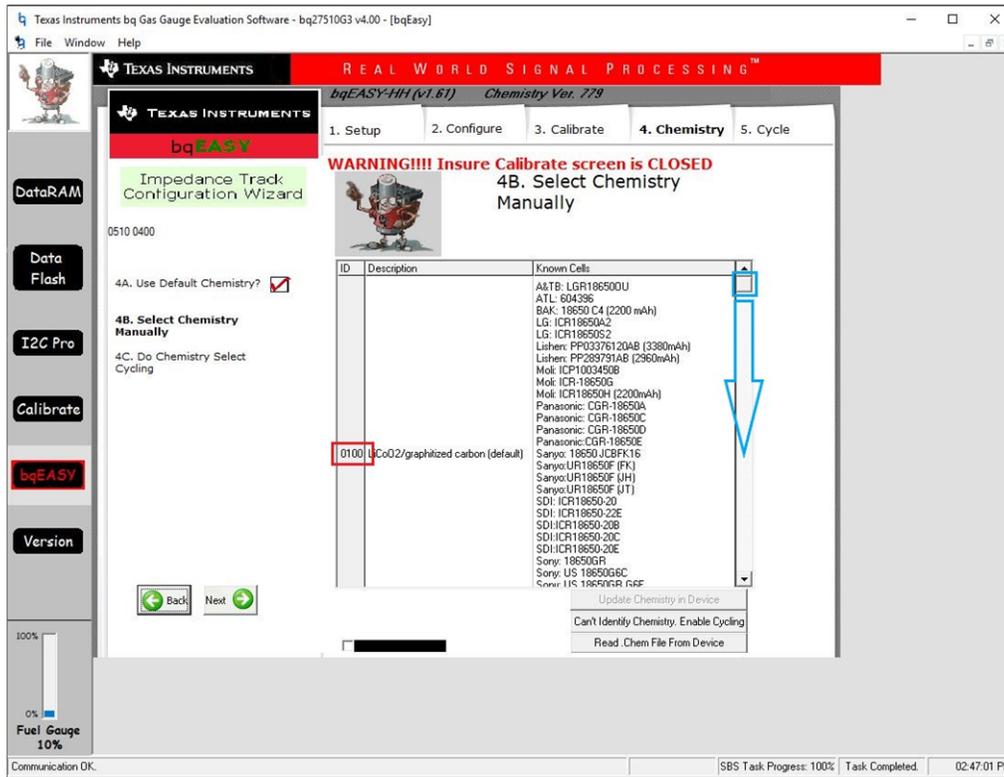


Figure 1-13. bqEVSW Gas Gauge Eval SW ChemID Selection

Once you scroll to your new ChemID, you can select it. It will highlight in green when clicked.

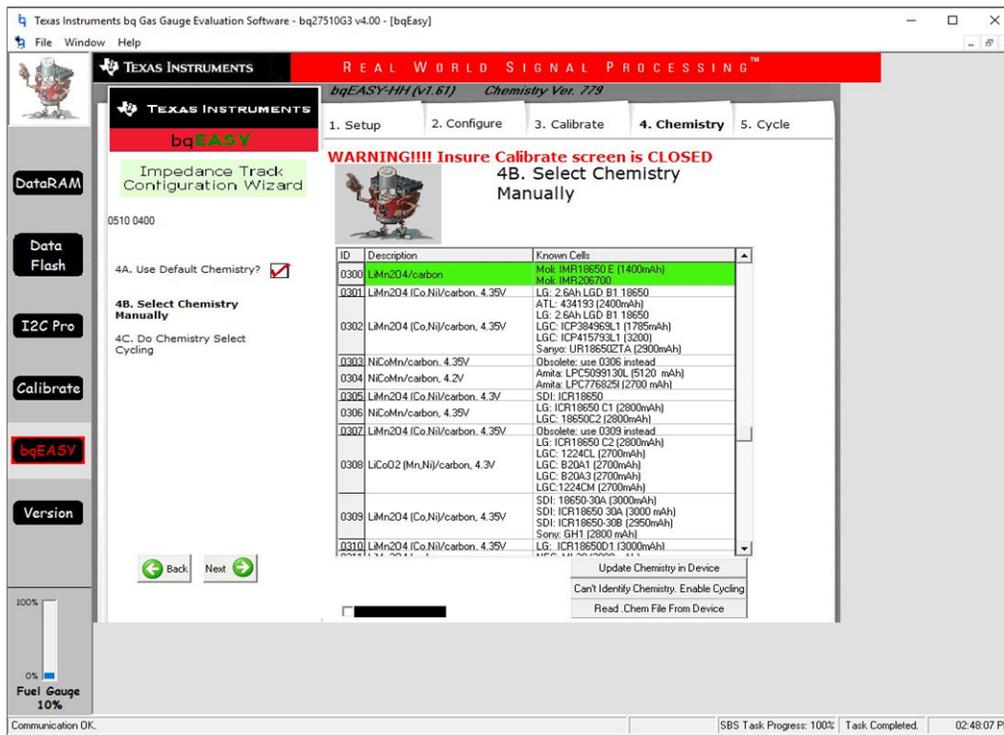


Figure 1-14. bqEVSW Gas Gauge Eval Software View ChemID

1.3 Summary

ChemicalUpdater has been installed successfully and the new chemistry database is available to the software. The user may use the software to configure the gauge with the desired chemical ID.

How to Update the Chemistry Database in Battery Management Studio (bqStudio)

This chapter describes how to update the chemistry database used by Battery Management Studio (bqStudio). Update the chemistry database if you do not see your battery cell model listed in the software.

2.1 Getting the Latest ChemID in bqStudio

The GUI shows the version you have (highlighted in red). Click the link to ti.com to download the newer chemistry update.

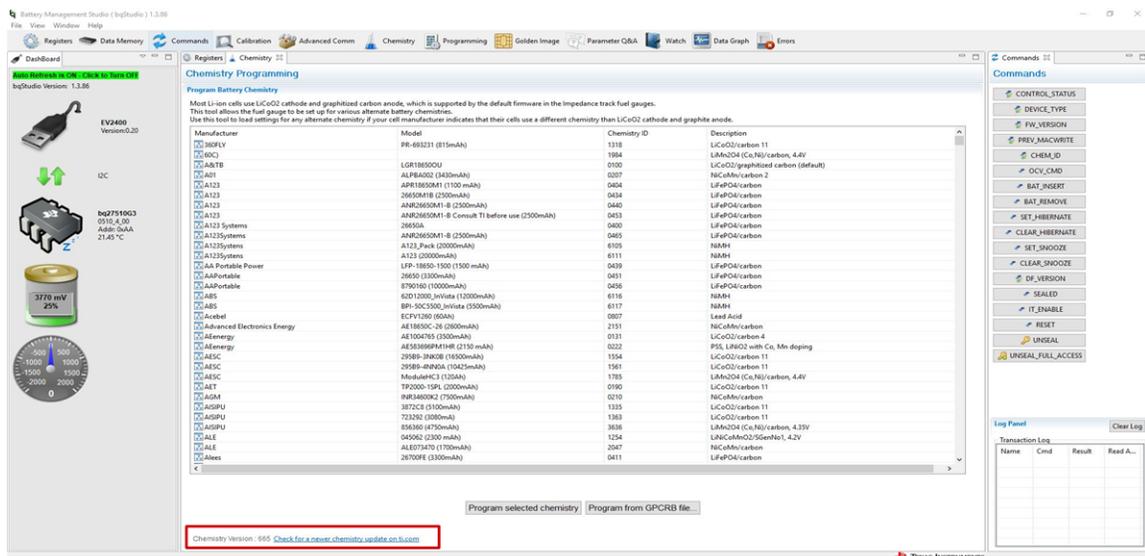


Figure 2-1. Viewing the Current Chemistry Database Version

TI.com has two updaters available for download. One is for bqStudio and the other is for the older EVSW (also called bqEasy).

Gas Gauge Chemistry Updater

GASGAUGECHM-SW_767

Release Date: 08 Feb 2020

- View release notes
- Supported Platforms
- What's New?
- Release Information

This page contains specific information about Gas Gauge Chemistry Updater release package. Refer to the table below for download links and related content.

Product downloads

Title	Version	Description
Chemistry Updater installer for bq Evaluation/bqEasy software		
Chemistry Updater installer for bq Evaluation/bqEasy software	767	Gas Gauge Chemistry Updater installer(Windows only) for bq Evaluation/bqEasy
Battery Management Studio (bqStudio) chemistry update zip file		
Chemistry Updater for Battery Management Studio (bqStudio) software	767	Use this file with Battery Management Studio (bqStudio) Help menu to import the latest chemistries.
Chemistry updater Documentation		
Documentation Overview	1.0	Gas gauge Chemistry updater Documentation

Figure 2-2. Download Choices - Choose bqStudio Chemistry Updater

2.2 Updating the Chemistry in bqStudio

Once you have downloaded the updater, in the *File* menu options, select *Help*, then *Update Chemistry*. Click the **Cancel** button on the *Chemistry Updater* dialog window. In File Explorer®, move to the folder where you downloaded the file and select it.

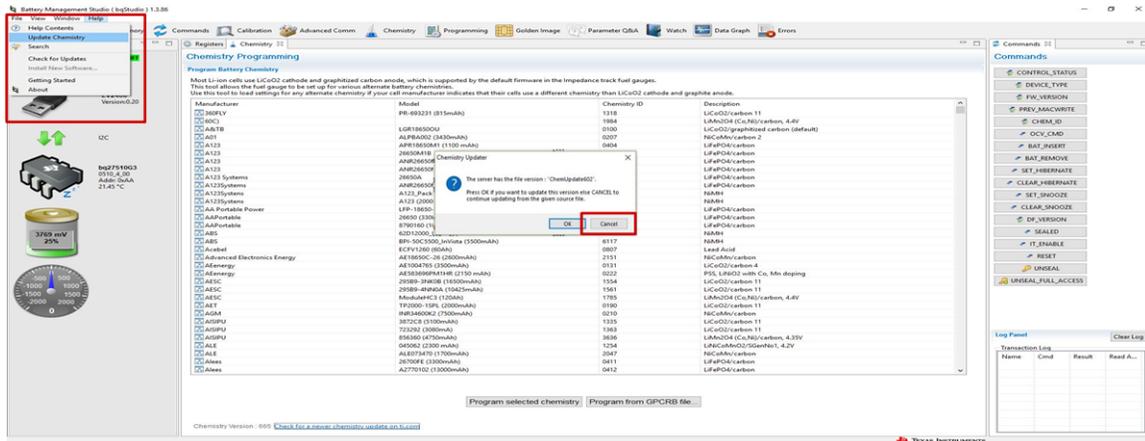


Figure 2-3. Update bqStudio Chemistry Database From the Help Menu

2.3 Programming the ChemID in bqStudio

Once you added the update you may need to close and reopen the *Chemistry* tab to see the new IDs. Select your ID in the list and then click the **Program selected chemistry** button. You have successfully updated the chemistry for your gauge.

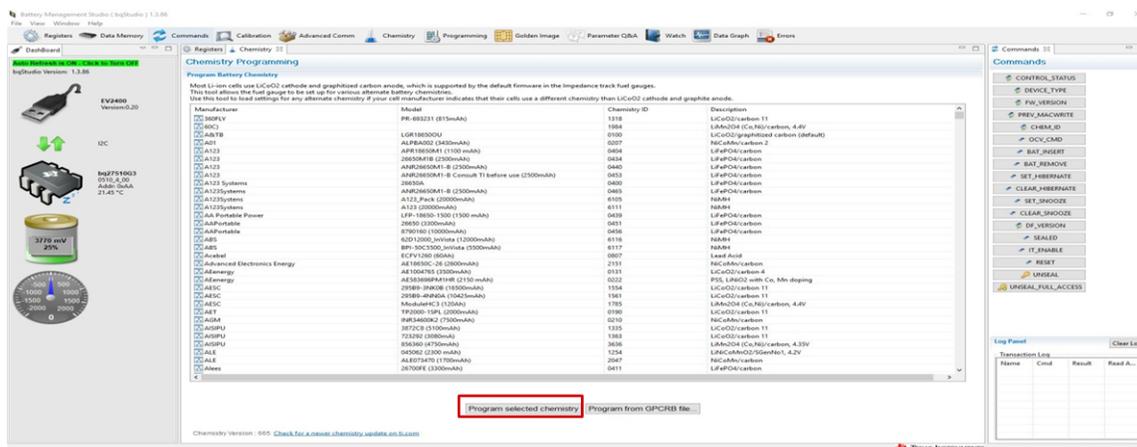


Figure 2-4. bqStudio Chemistry Selection Window

2.4 Summary

Chemistry Updater has been installed successfully and the new chemistry database is available to the software. The user may use the software to configure the gauge with the desired chemical ID.

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2020, Texas Instruments Incorporated