



ID Lock



Z-Wave Module

Firmware Update Guide

ENGLISH

V1.6 EN 21-01-08



Prerequisites

To upgrade your Z-Wave module you need the following:

1. An ID Lock electronic door lock
2. An ID Lock Z-Wave module
3. ID Lock Z-Wave firmware file (hex-file)
4. Silicon Labs Simplicity Studio and Z-Wave PC Controller (registration required to download developer tool)
5. Z-Wave UZB controller (i.e. Aeontec Gen5 UZB)
6. A computer running Windows 10 with at least 1 USB port

To update the Z-Wave module it must be excluded from your existing Z-Wave network. Please refer to the Z-Wave manual on idlock.no/kundesenter and your Z-Wave controller guide for details on how to exclude a door lock from your network.

Before inclusion we recommend you replace your batteries with 8 new LR06 batteries to ensure nothing goes wrong during the OTA (Over The Air) upgrade.

The Z-Wave firmware hex-file is available on idlock.no/kundesenter. Look for them in the Z-Wave section on the right side.

Contents

| | |
|---------------------------------|----|
| Prerequisites..... | 1 |
| WARNING!..... | 1 |
| Access to software..... | 2 |
| NOTE! | 10 |
| How to update your device:..... | 11 |
| NOTE! | 16 |
| Copyright | 17 |

WARNING!

Updating the Z-Wave Module is at own risk and without any warranties. ID Lock is not responsible for any faults that may occur during the update process.

Access to software

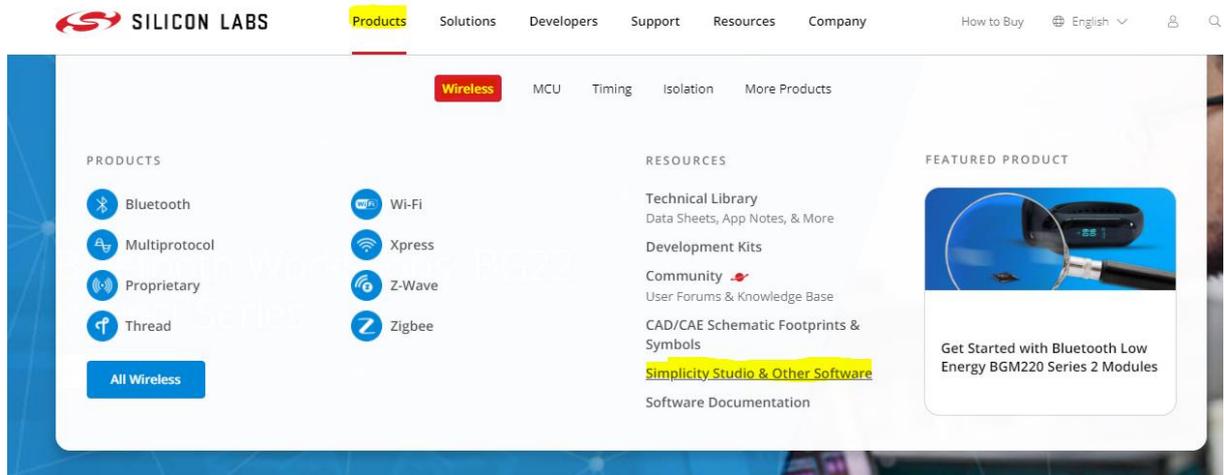
The PC Controller software required for OTA can be accessed from the Silicon labs Simplicity studio. To download and use the software a Silicon Labs account is needed. To make it easier later we will start by making an silicon labs account.

Note that administrator access on the PC is required to install simplicity studio.

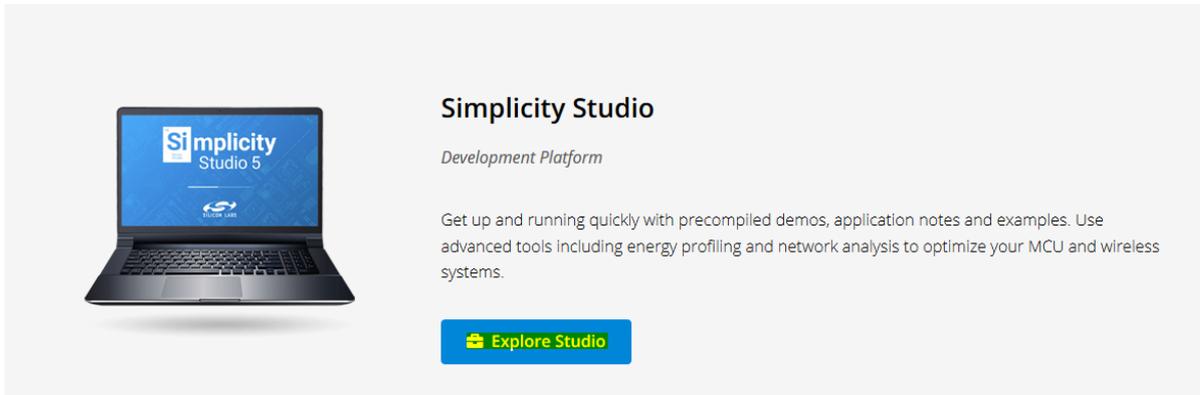
1. Go to Silicon Labs webpages www.silabs.com.
2. Select the “person”-symbol and “register account” as shown below. Follow the steps provided. (If you already have an silicon labs account log in instead)



3. To download the Simplicity Studio enter Silicon Labs webpages again, www.silabs.com. Select “Products” -> “Wireless” -> “Simplicity Studio & Other Software” (marked yellow)



4. Scroll down and select “Explore Studio”

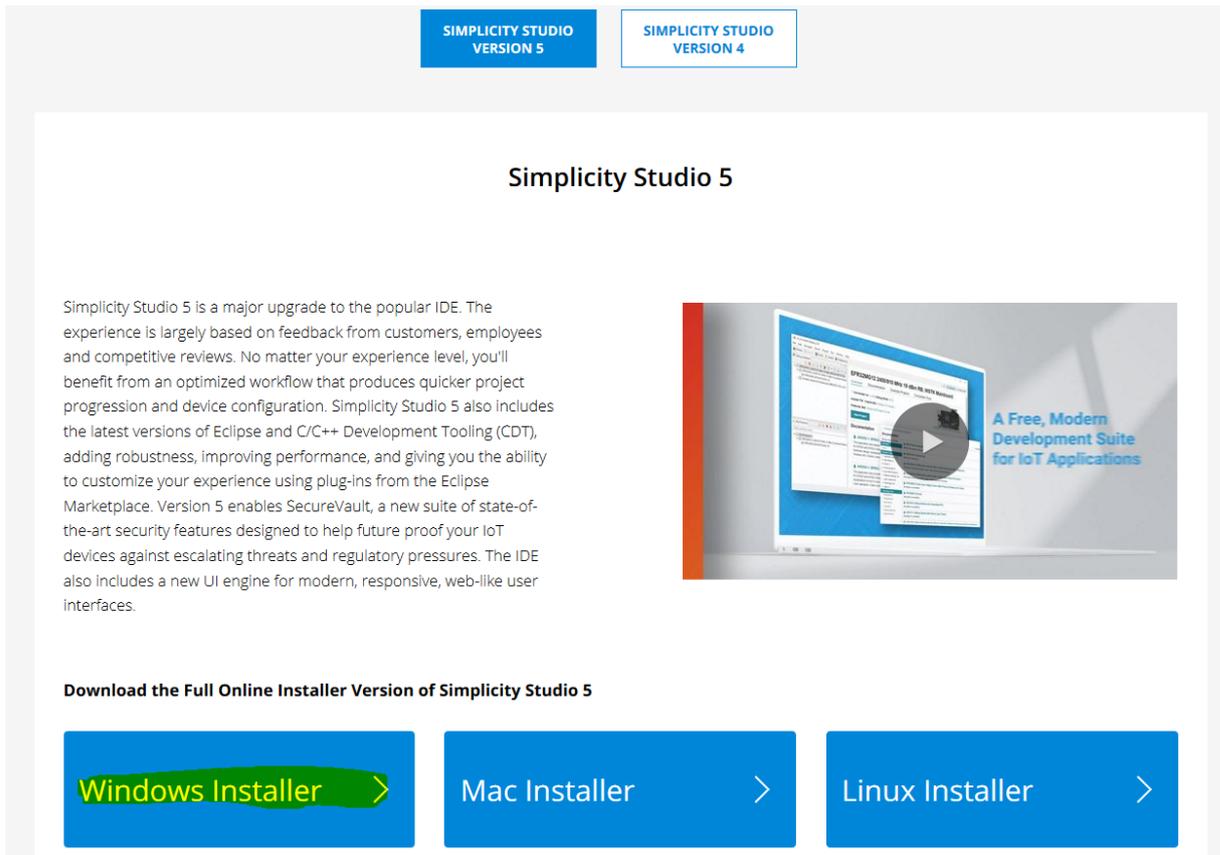


Simplicity Studio
Development Platform

Get up and running quickly with precompiled demos, application notes and examples. Use advanced tools including energy profiling and network analysis to optimize your MCU and wireless systems.

[Explore Studio](#)

5. Scroll down, select simplicity studio version 5 and press the Windows installer button to download Simplicity Studio 5. You need to login to Simplicity Studio to download the software.



[SIMPLICITY STUDIO VERSION 5](#) [SIMPLICITY STUDIO VERSION 4](#)

Simplicity Studio 5

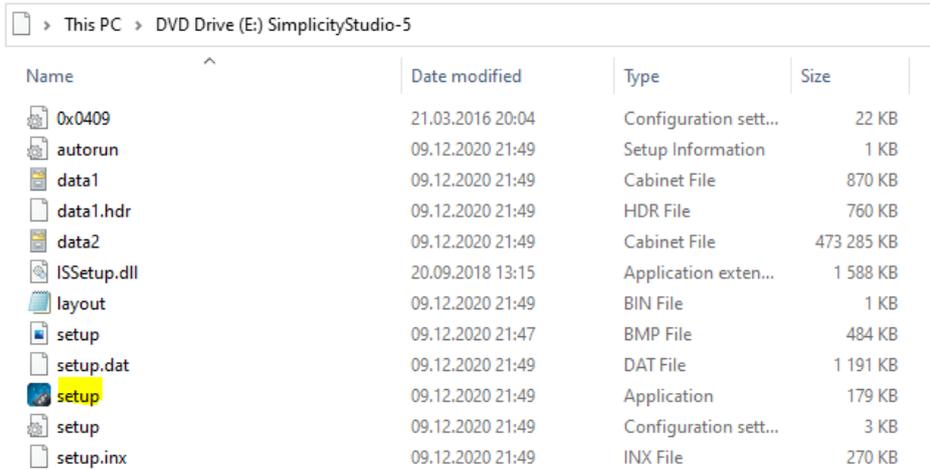
Simplicity Studio 5 is a major upgrade to the popular IDE. The experience is largely based on feedback from customers, employees and competitive reviews. No matter your experience level, you'll benefit from an optimized workflow that produces quicker project progression and device configuration. Simplicity Studio 5 also includes the latest versions of Eclipse and C/C++ Development Tooling (CDT), adding robustness, improving performance, and giving you the ability to customize your experience using plug-ins from the Eclipse Marketplace. Version 5 enables SecureVault, a new suite of state-of-the-art security features designed to help future proof your IoT devices against escalating threats and regulatory pressures. The IDE also includes a new UI engine for modern, responsive, web-like user interfaces.

[A Free, Modern Development Suite for IoT Applications](#)

Download the Full Online Installer Version of Simplicity Studio 5

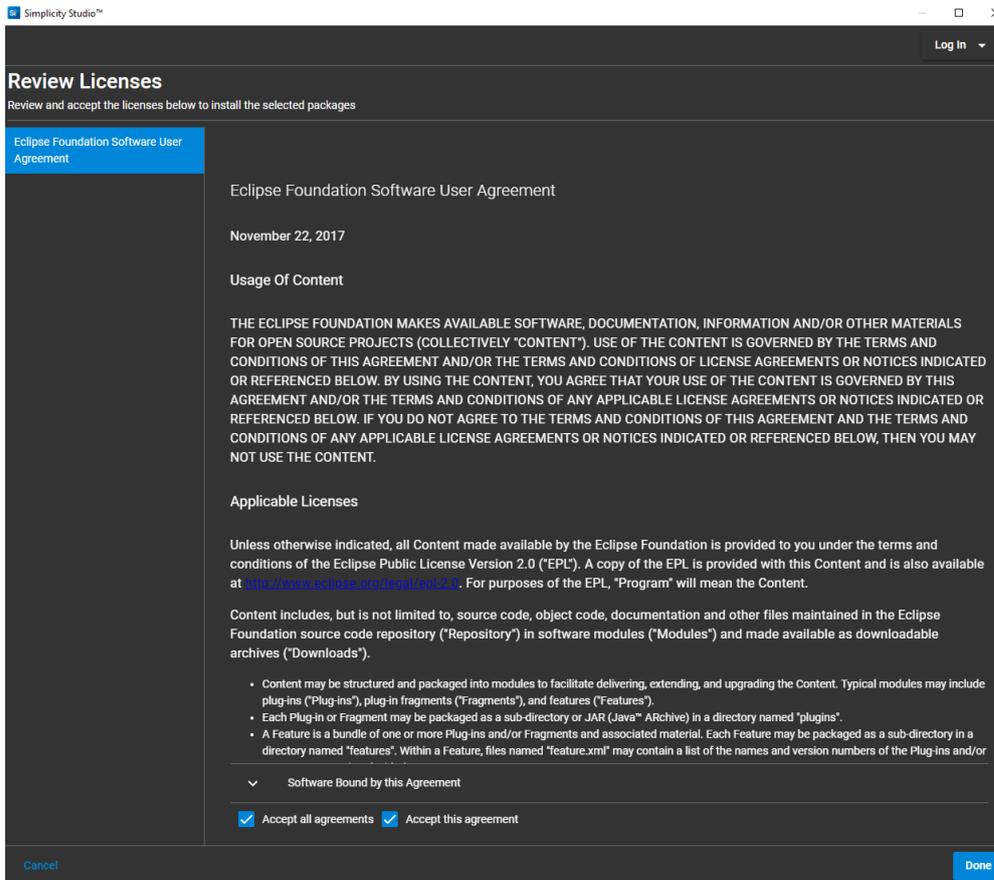
[Windows Installer](#) [Mac Installer](#) [Linux Installer](#)

6. After downloading, open the file. A new window with the following should appear. Choose Setup and follow the installation procedure.

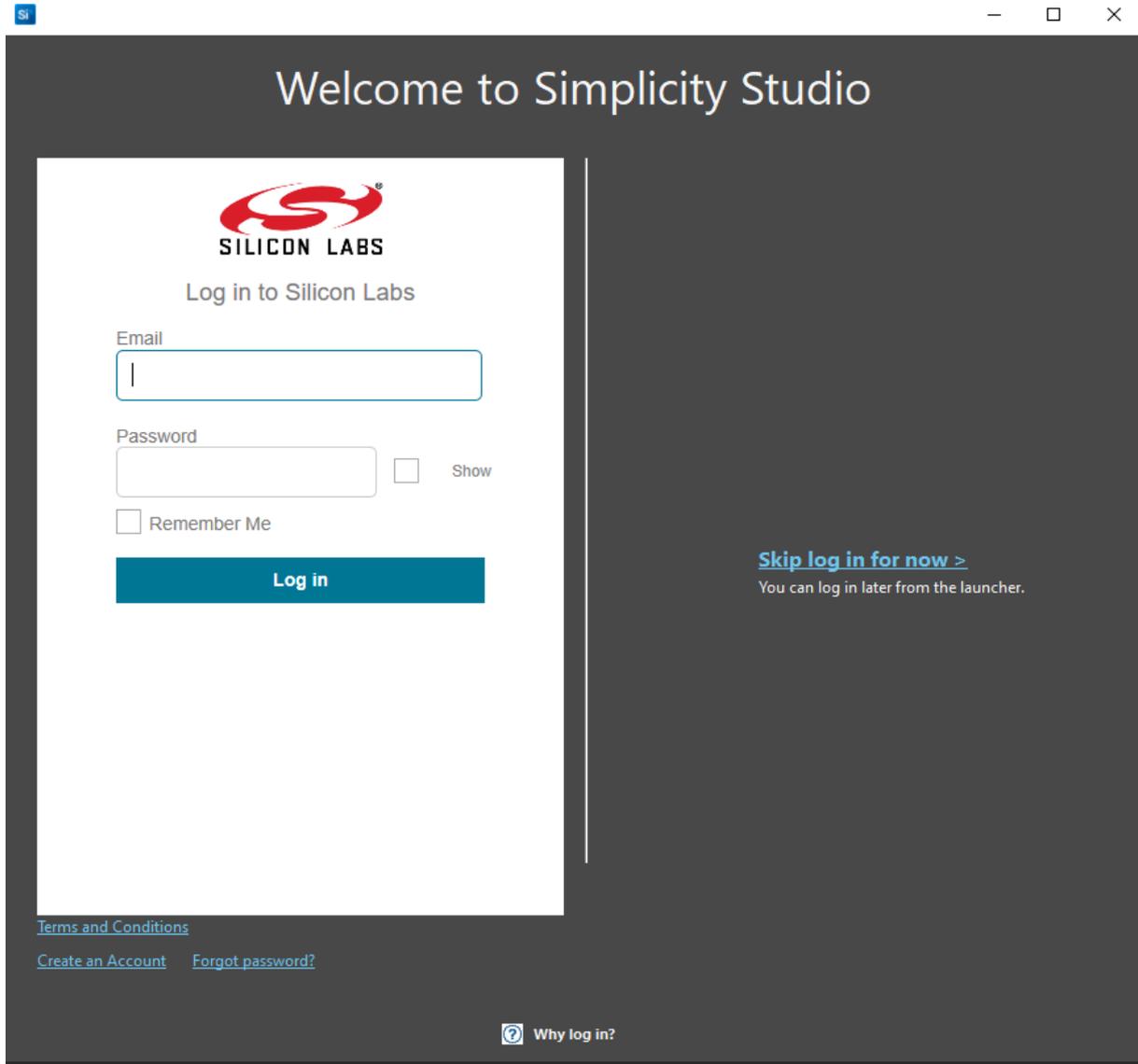


| Name | Date modified | Type | Size |
|-------------|------------------|-----------------------|------------|
| 0x0409 | 21.03.2016 20:04 | Configuration sett... | 22 KB |
| autorun | 09.12.2020 21:49 | Setup Information | 1 KB |
| data1 | 09.12.2020 21:49 | Cabinet File | 870 KB |
| data1.hdr | 09.12.2020 21:49 | HDR File | 760 KB |
| data2 | 09.12.2020 21:49 | Cabinet File | 473 285 KB |
| ISSetup.dll | 20.09.2018 13:15 | Application exten... | 1 588 KB |
| layout | 09.12.2020 21:49 | BIN File | 1 KB |
| setup | 09.12.2020 21:47 | BMP File | 484 KB |
| setup.dat | 09.12.2020 21:49 | DAT File | 1 191 KB |
| setup | 09.12.2020 21:49 | Application | 179 KB |
| setup | 09.12.2020 21:49 | Configuration sett... | 3 KB |
| setup.inx | 09.12.2020 21:49 | INX File | 270 KB |

7. After installation, start Simplicity Studio. When started the following box should appear. Accept all and press done.

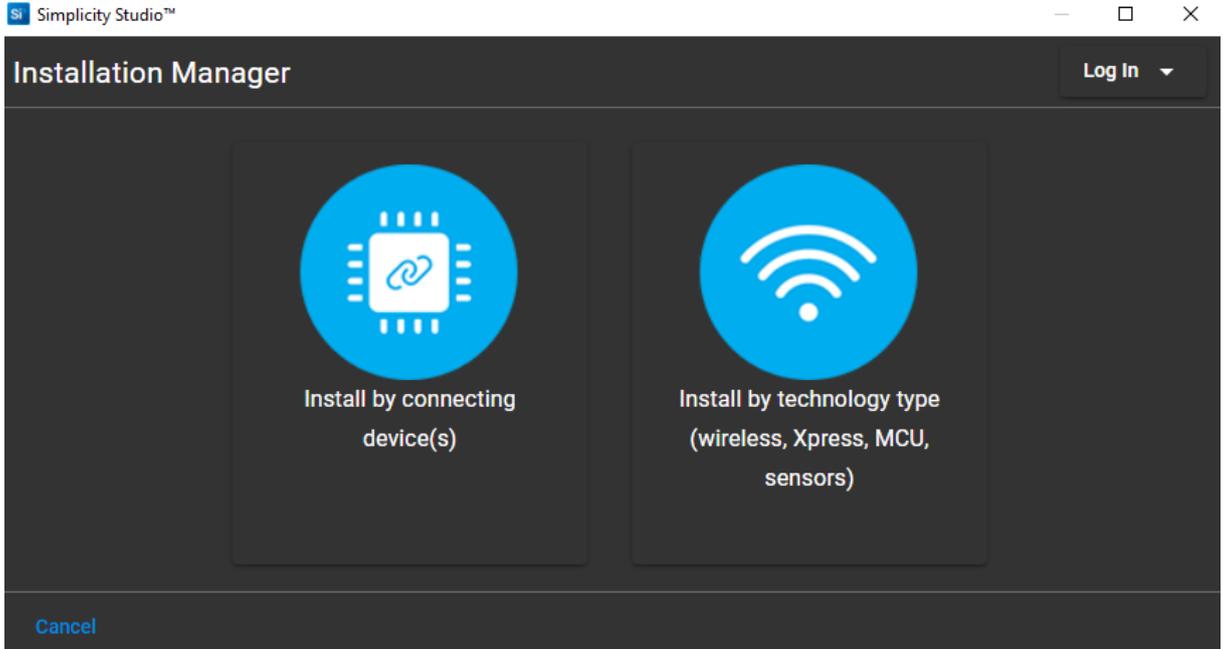


8. The following should then appear. Login with your silicon labs account.

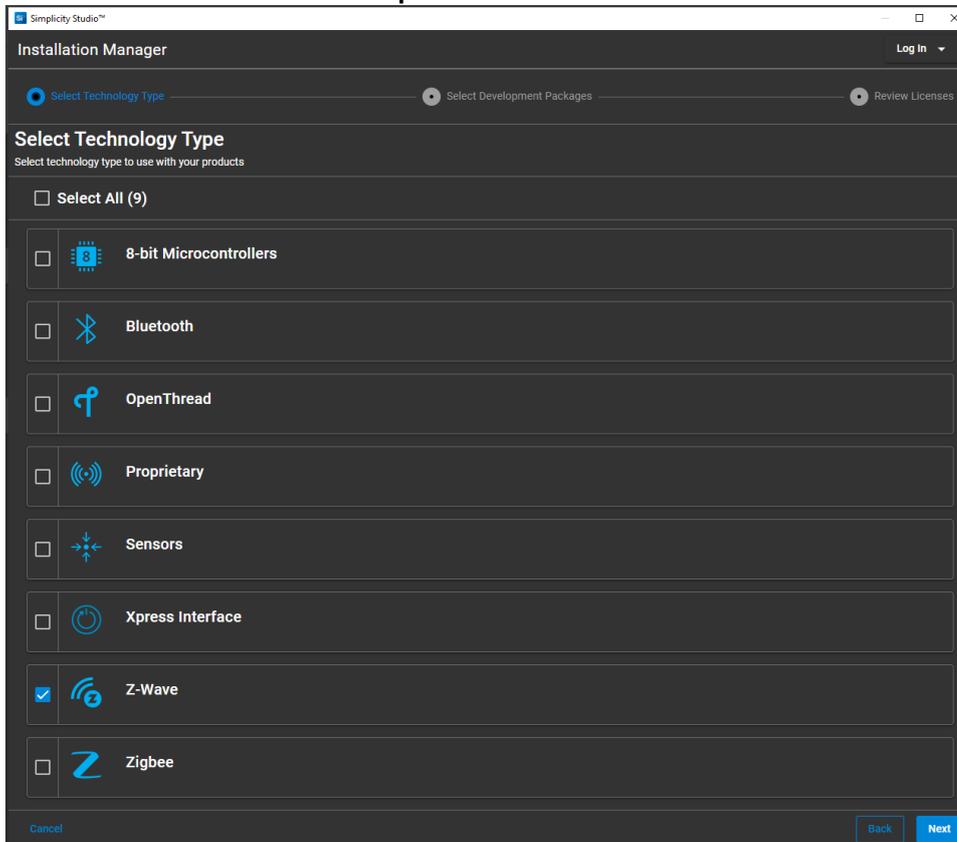


9. After login the program requires some time while downloading drivers and setting up.

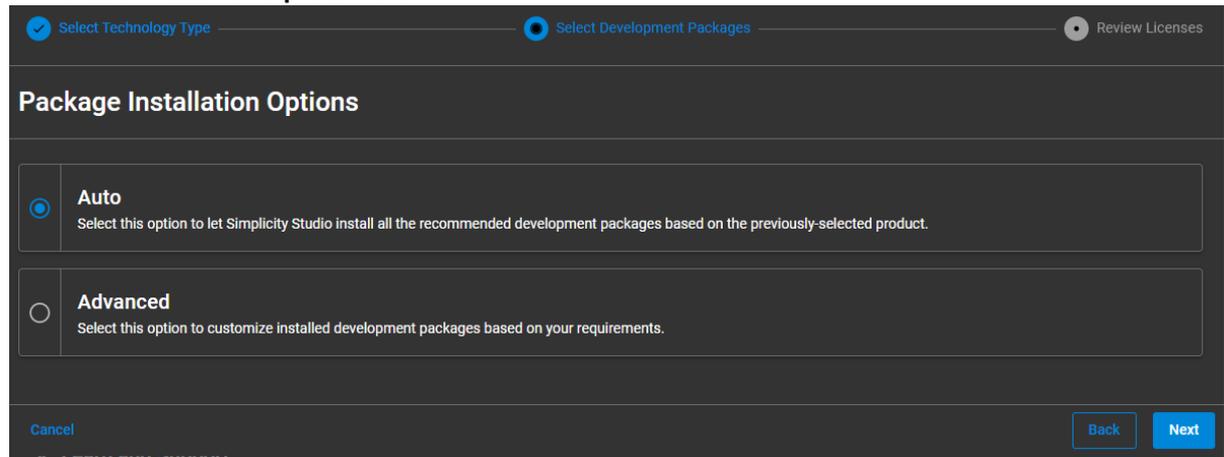
10. Installation manager will then appear. Choose the “install by technology type” button.



11. Chose Z-Wave from the list and press next



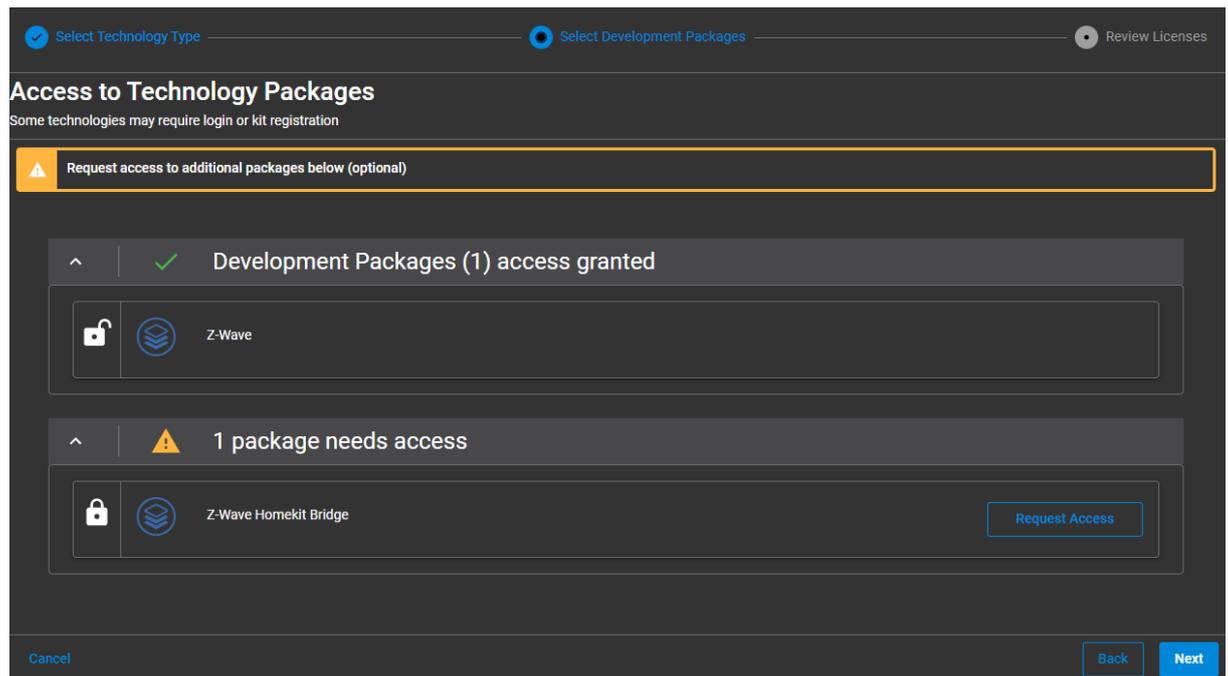
12. Chose “Auto” and press next



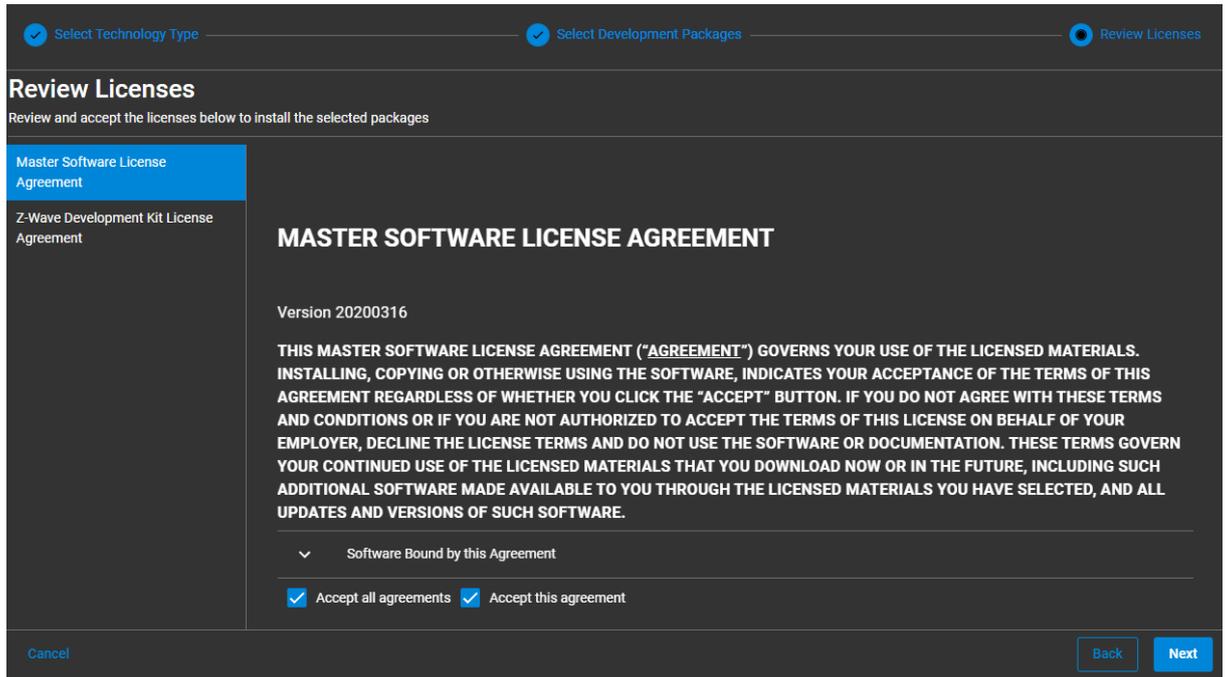
13. A warning for missing packages might appear.

It is important that you have access to the Z-Wave Developer pack. The “Z-Wave Homekit Bridge” pack is not required.

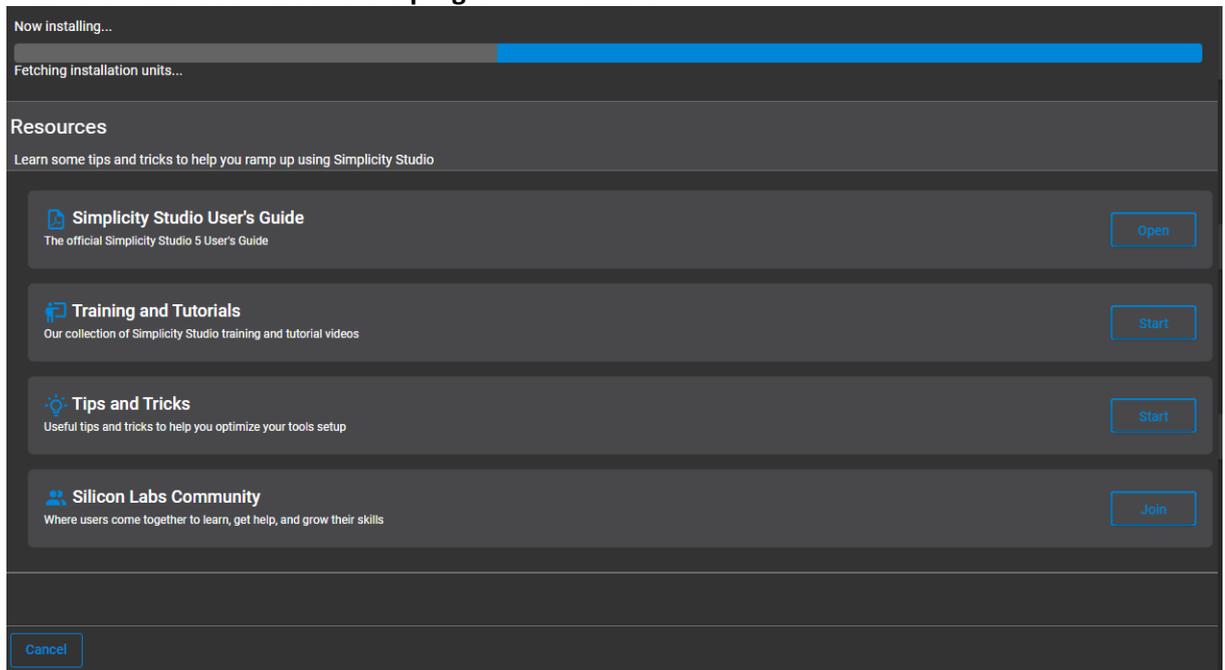
Press “next” if this is ok.



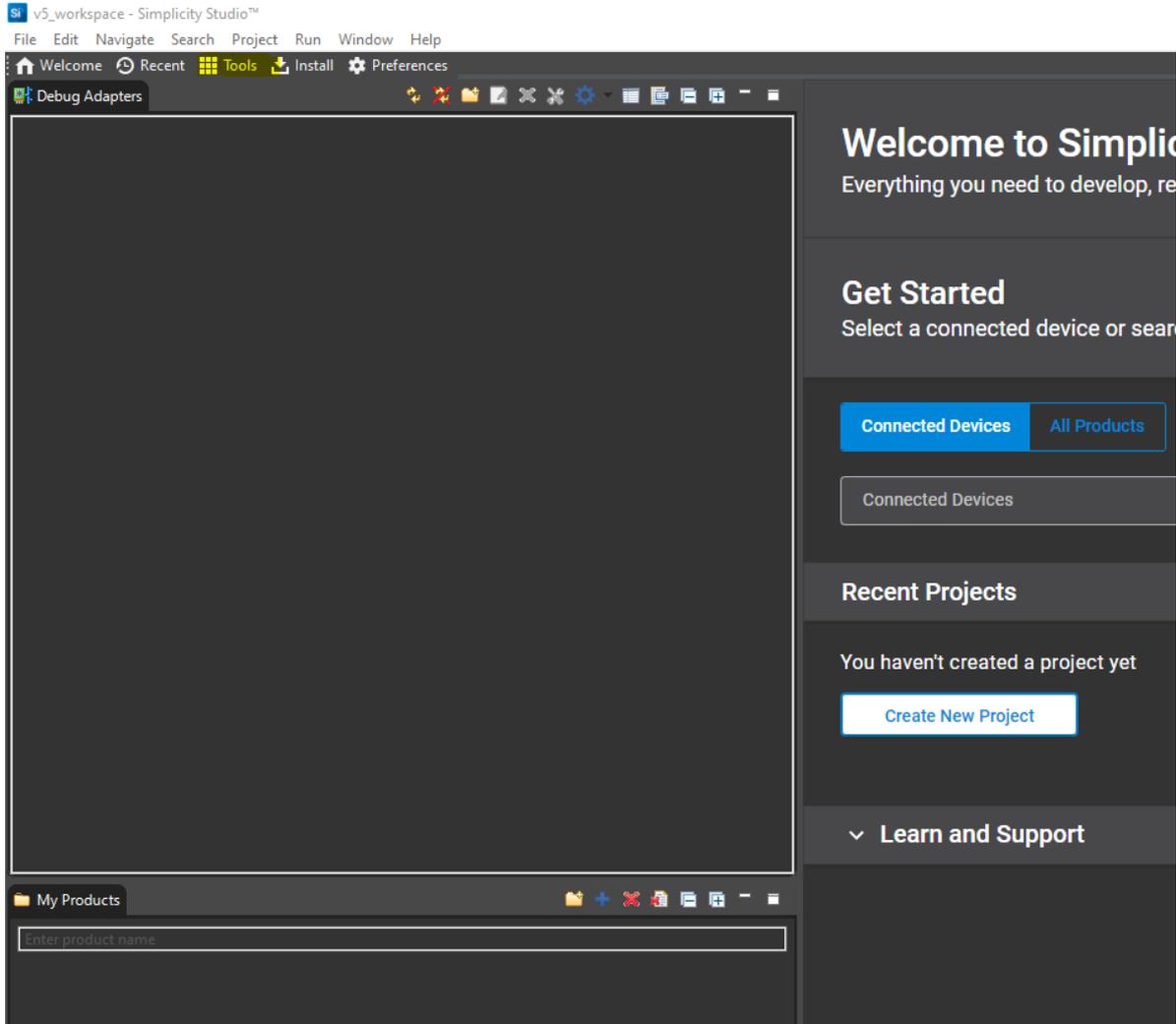
14. "Accept all agreements" and press next



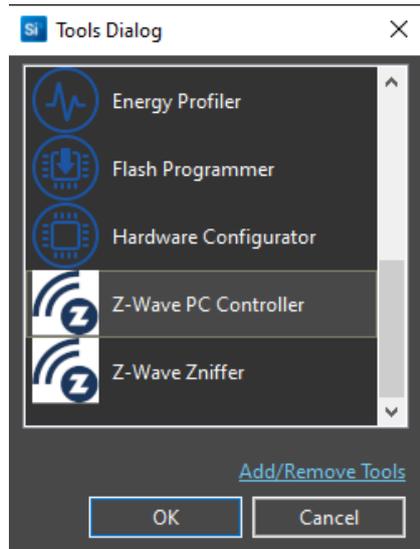
15. The Z-Wave packages required will now be installed. Please wait. After the installation is done the program will restart.



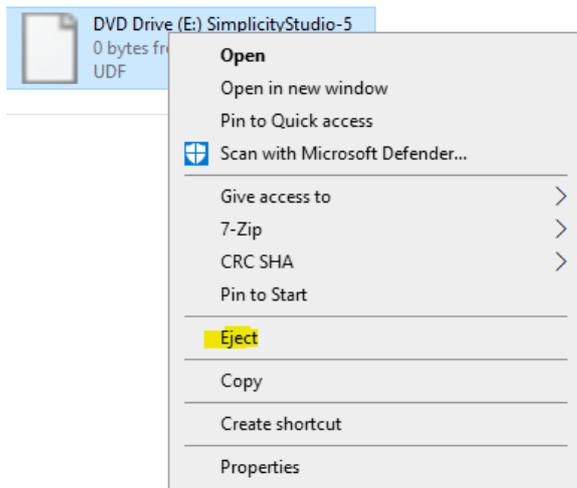
16. After restart select "Tools" button in the bar above.



17. The following window should appear. Scroll down and select “Z-Wave PC Controller” and press “ok”



18. After installation you can eject/close the drive created when the Simplicity Studio installation file is opened. To do so, open This PC, select and right click the DVD drive for Simplicity Studio and select eject. This is not required to use Simplicity studio.



NOTE!

Silicon Labs Z-Wave PC Controller is a developer tool without any warranties. Please be advised of Silicon Labs requirements for downloading the file and how to use the software.

How to update your device:

Exclude the door lock from your controller (follow the instructions from your controller supplier)

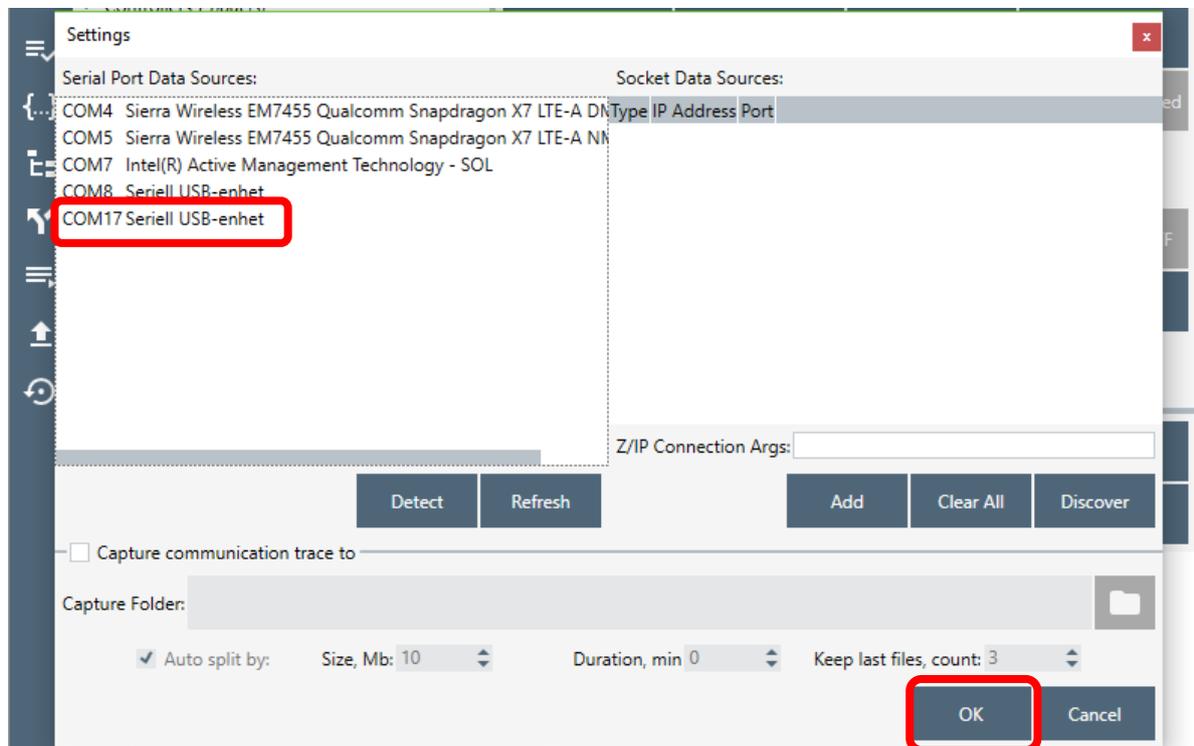
Insert the Z-Wave UZB controller to a USB port on your computer

Start Silicon Labs PC Controller as shown above (from 16)

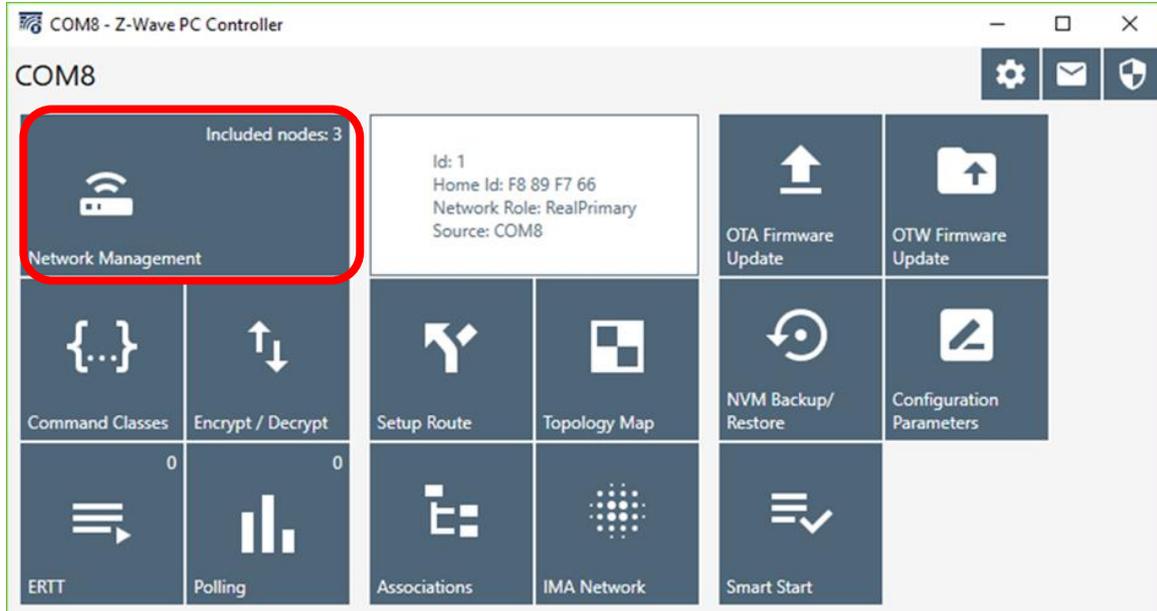
Click on Settings (the gear icon in the top right corner)



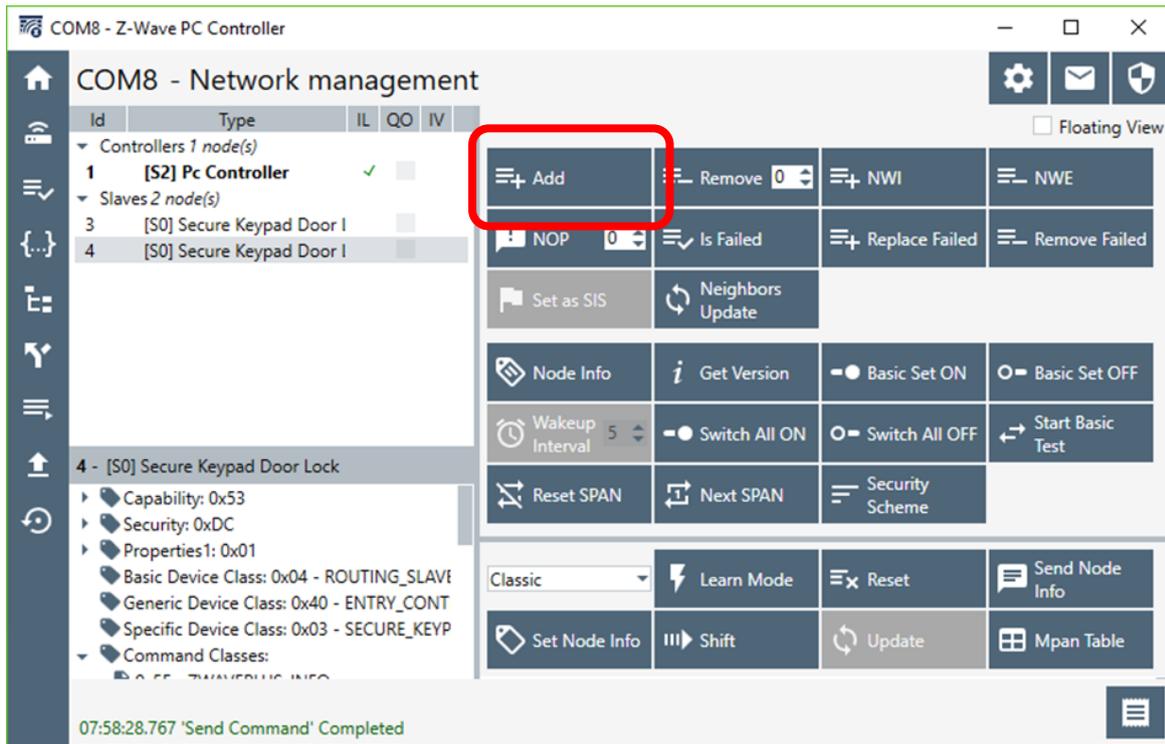
Check the recognized UZB controller on the list in the dialog window and click **OK**. If there's nothing there, click **DETECT** and then **REFRESH**. If the UZB controller still doesn't show up, you may need to install special drivers so please contact the manufacturer of the device for instructions.



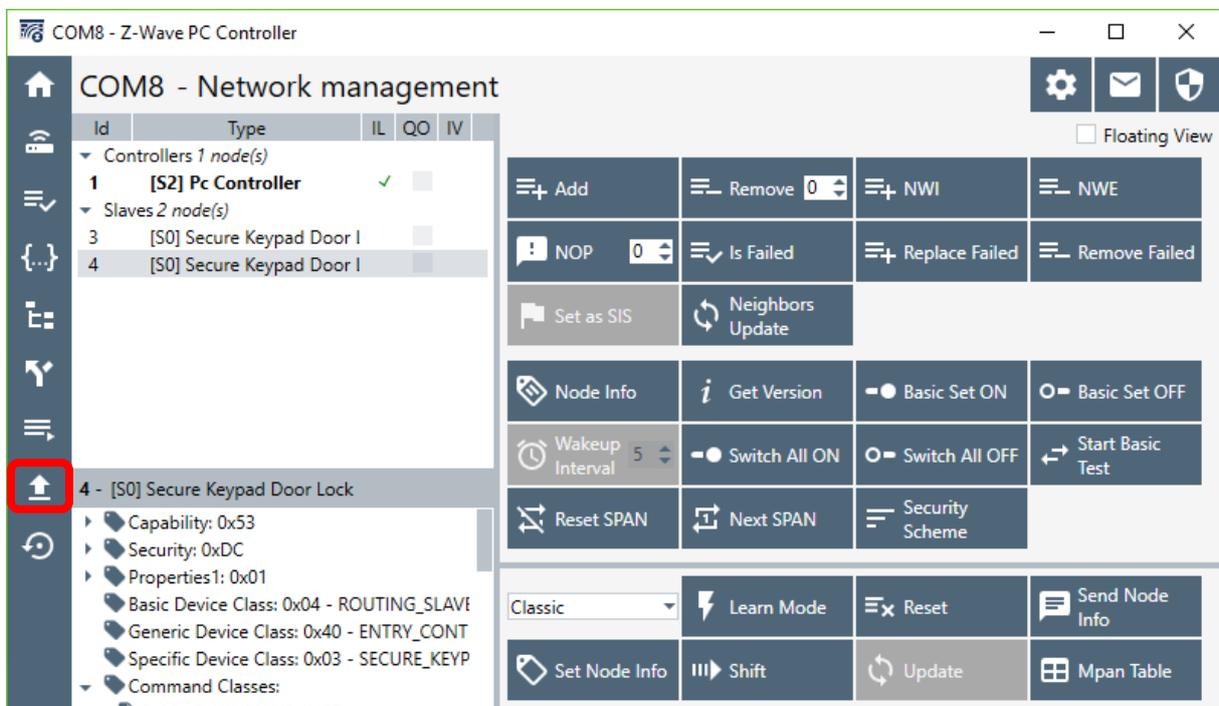
Click Network Management



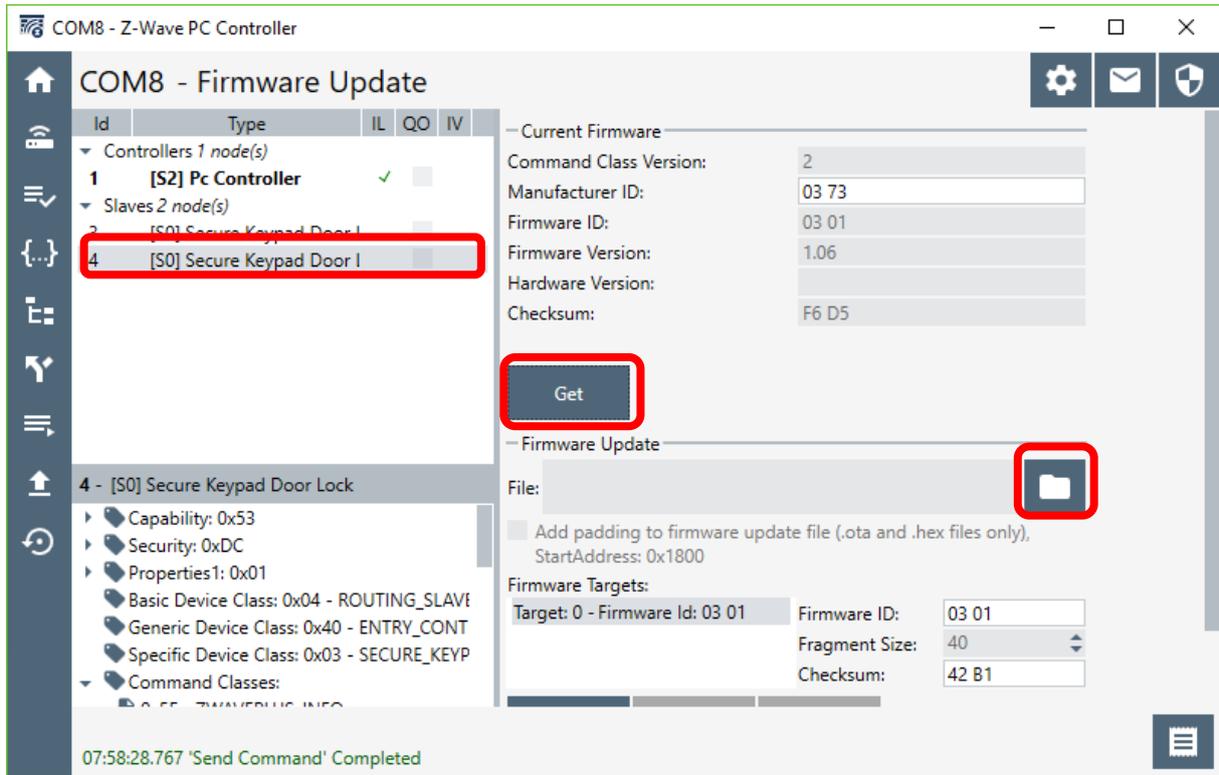
Click ADD to enroll the UZB controller in inclusion mode, then activate inclusion mode on your door lock (please refer to the Z-Wave manual for how to do this)



After a successful inclusion, click **ARROW UP ICON** to get to the update screen.

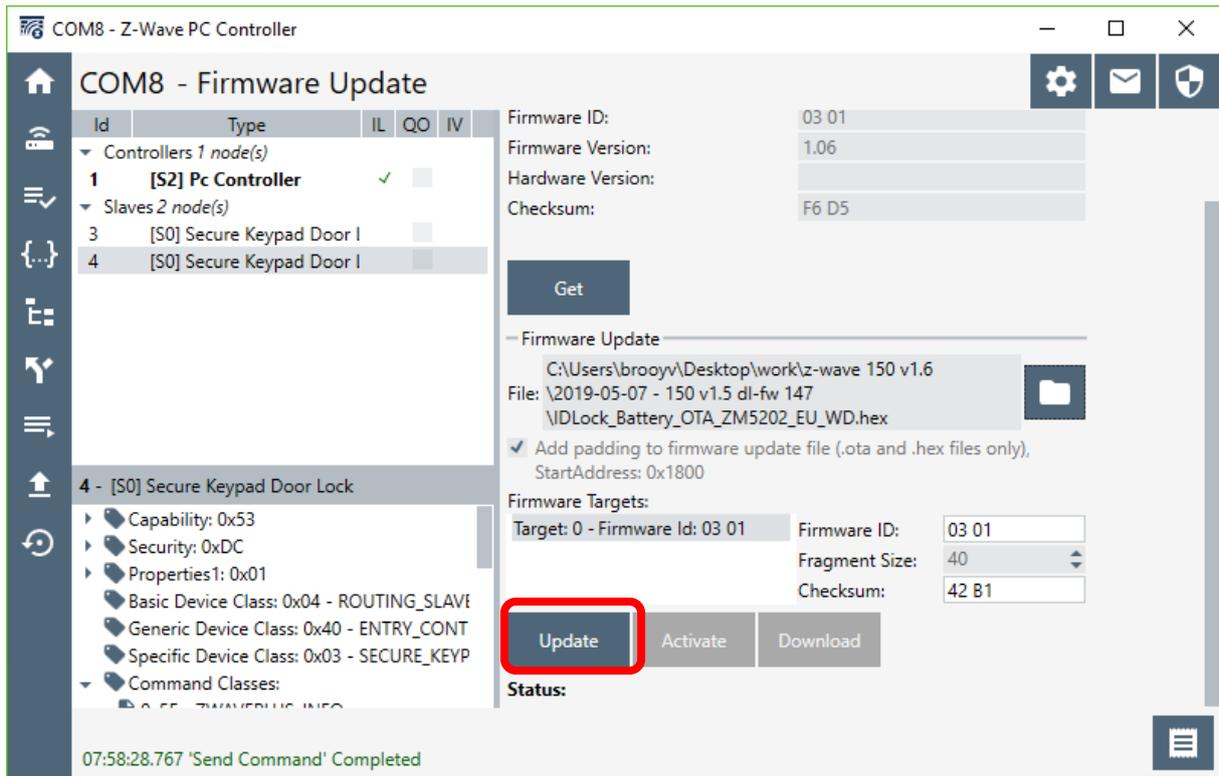


Check the added **[S0] Secure Keypad Door Lock** and click the **GET** button



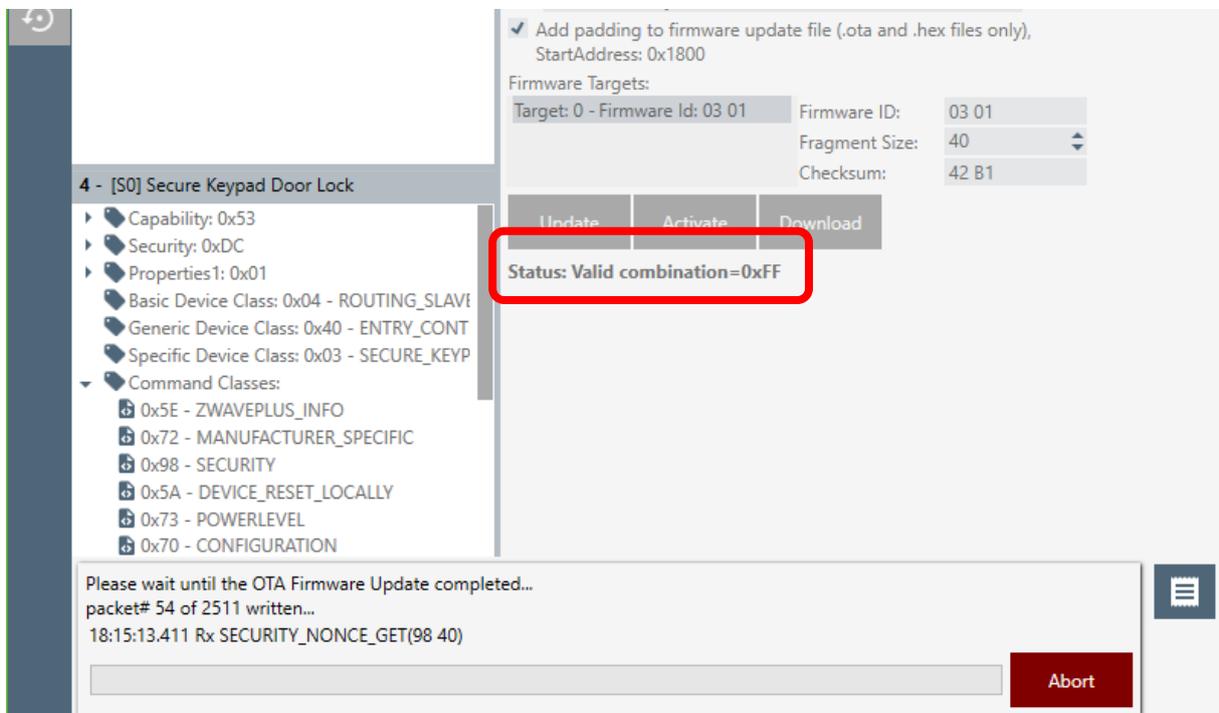
Click on the **FOLDER** button to select the downloaded hex-file.

Click on the **UPDATE** button to start update.

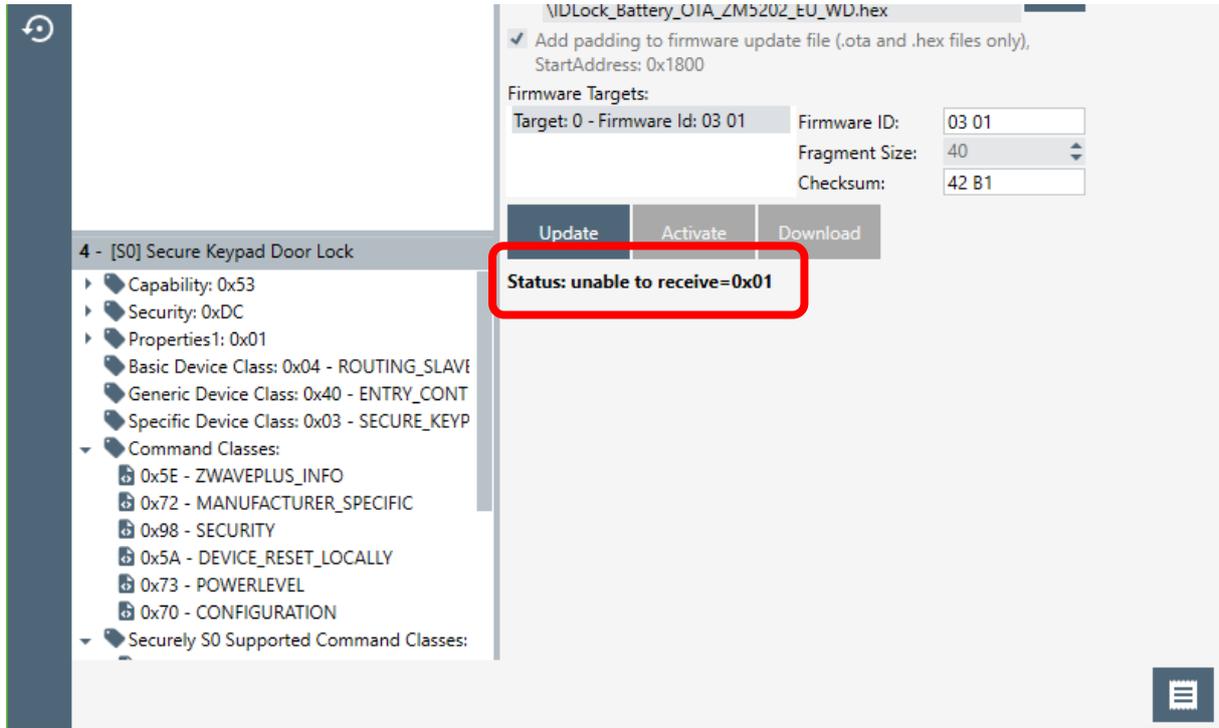


An update process may take a while, up to 15 minutes is quite normal.

Verify the process status. If correct, the status should always show: **Valid combination=0xFF**



If the update process fails or is aborted the status shows: **Unable to receive=0x01**



NOTE!

After an update of the Z-Wave module it *may* be required to perform a Z-Wave local reset and a factory reset of your door lock before including it in a new Z-Wave network.



Copyright

The following applies to the ID Lock Z-Wave OTA firmware 1.0, 1.5 and 1.6.

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