

Converting PDMS/E3D for iTwin

2024-03-11

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1. Introduction

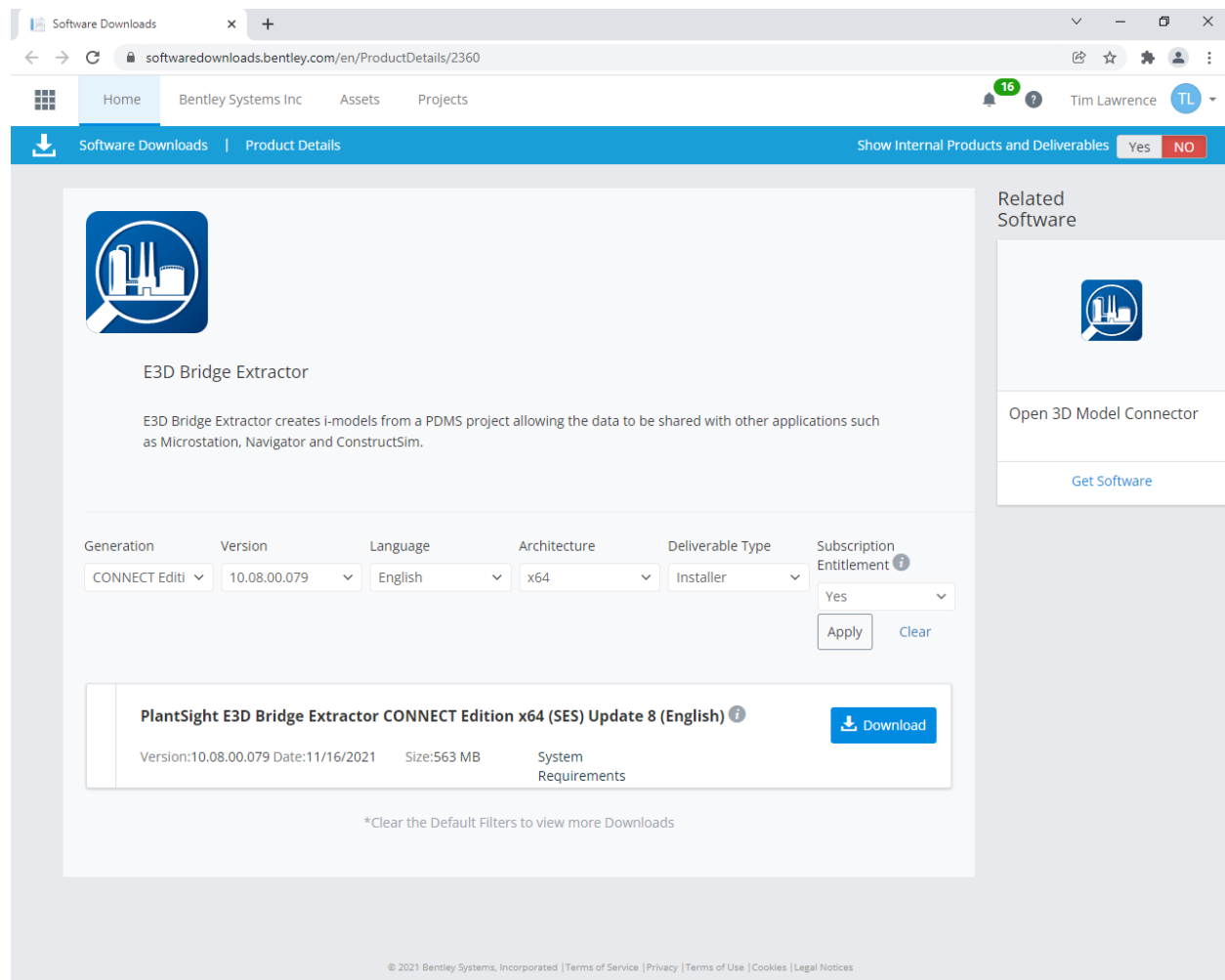
This document outlines the steps required to setup software required for using setup and use the E3D Extractor and the Open 3D Model Connector with iTwins.

2. Software to download

2.1. E3D Extractor

Navigate to:

<https://softwaredownloads.bentley.com/en/ProductDetails/2360>



The screenshot shows a web browser window displaying the Bentley Software Downloads website. The page title is "Software Downloads" and the URL is "softwaredownloads.bentley.com/en/ProductDetails/2360". The navigation menu includes "Home", "Bentley Systems Inc", "Assets", and "Projects". The user is identified as "Tim Lawrence" with a profile icon. The page content features a blue header with "Software Downloads" and "Product Details" tabs, and a "Show Internal Products and Deliverables" toggle set to "Yes". The main content area displays the "E3D Bridge Extractor" product, including a description: "E3D Bridge Extractor creates I-models from a PDMS project allowing the data to be shared with other applications such as Microstation, Navigator and ConstructSim." Below the description are filter dropdowns for "Generation" (CONNECT Editi), "Version" (10.08.00.079), "Language" (English), "Architecture" (x64), "Deliverable Type" (Installer), and "Subscription Entitlement" (Yes). A "Download" button is visible next to the product name "PlantSight E3D Bridge Extractor CONNECT Edition x64 (SES) Update 8 (English)". A "Related Software" sidebar on the right lists "Open 3D Model Connector" with a "Get Software" button. The footer contains copyright information: "© 2021 Bentley Systems, Incorporated | Terms of Service | Privacy | Terms of Use | Cookies | Legal Notices".

2.2. Open 3D Model Connector

Navigate to:

<https://softwaredownloads.bentley.com/en/ProductDetails/2736>

Software Downloads

softwaredownloads.bentley.com/en/ProductDetails/2736

Home Bentley Systems Inc Assets Projects

Software Downloads | Product Details Show Internal Products and Deliverables Yes NO

Open 3D Model Connector

The Open 3D Model Connector is a conversion utility that converts models from PDMS to .bim 2.0 files for use with iModel Hub Services as well as Web Viewing Services.

Generation	Version	Language	Architecture	Deliverable Type	Subscription Entitlement
CONNECT Editi	10.08.00.084	English	x64	Installer	Yes

Apply Clear

PlantSight Open 3D Model Bridge CONNECT Edition x64 (SES) Update 8 (English) Download

Version:10.08.00.084 Date:11/16/2021 Size:566 MB System Requirements

*Clear the Default Filters to view more Downloads

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Related Software

E3D Bridge Extractor Get Software

Smart 3D Bridge Extractor Get Software

3. PDMS sample data

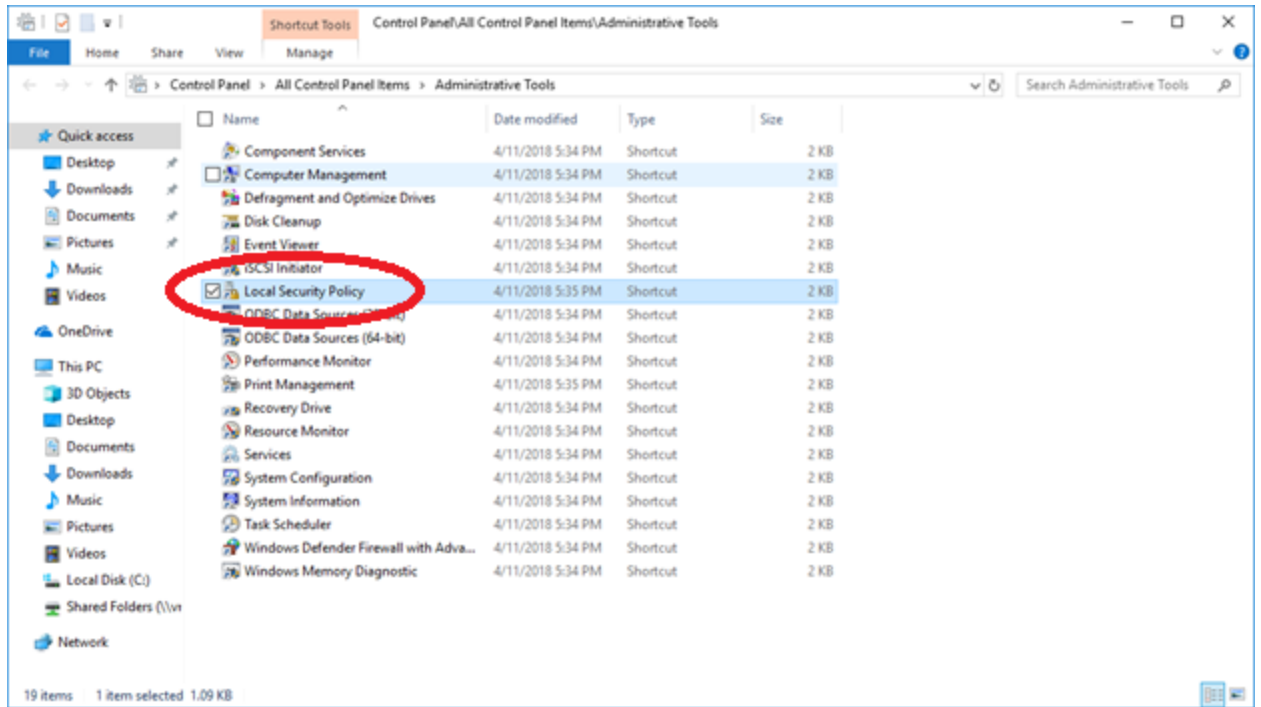
A copy of data exported from the PDMS Sample project can be found on the Teams site:

[stabilizer.pdmx.xml.7z](#)

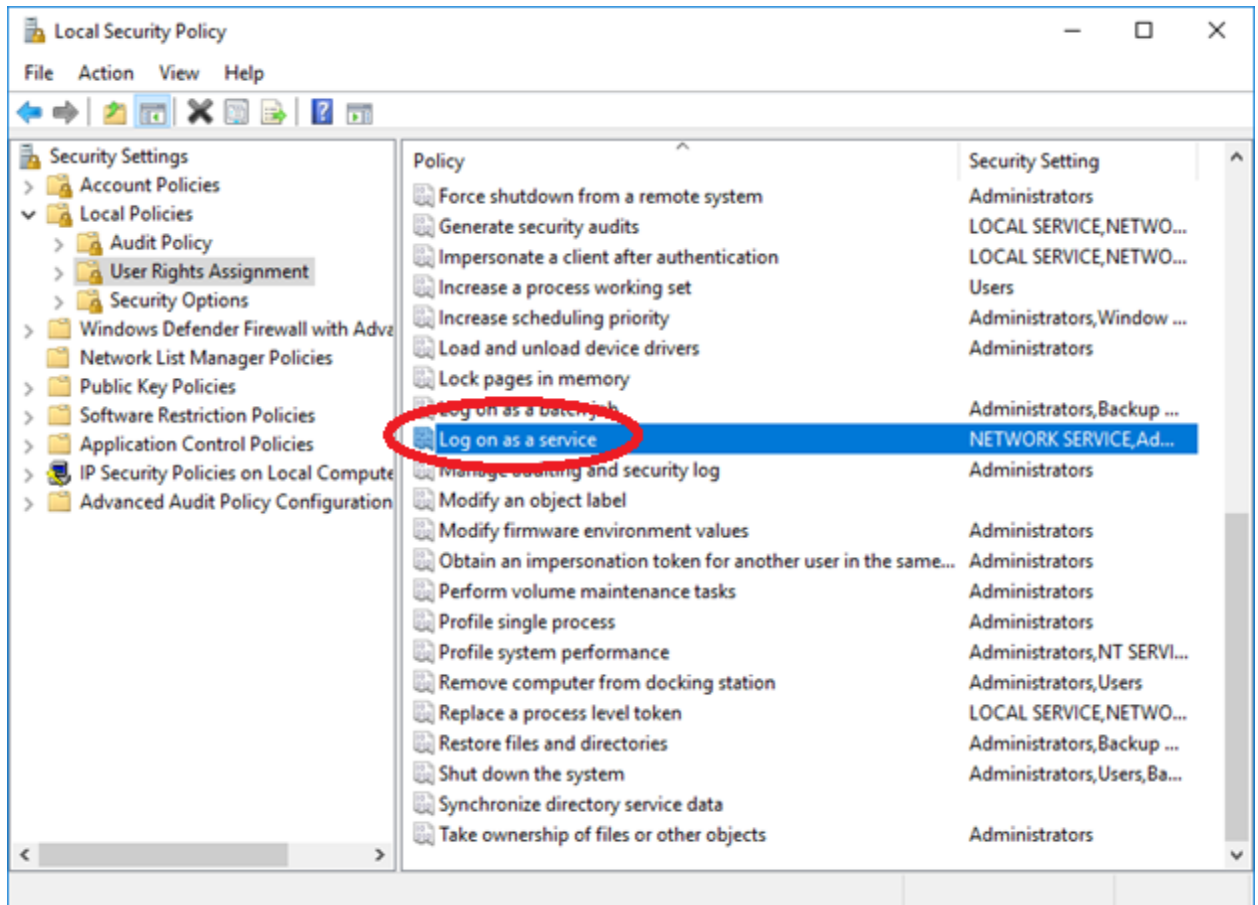
4. Set Logon as a Service

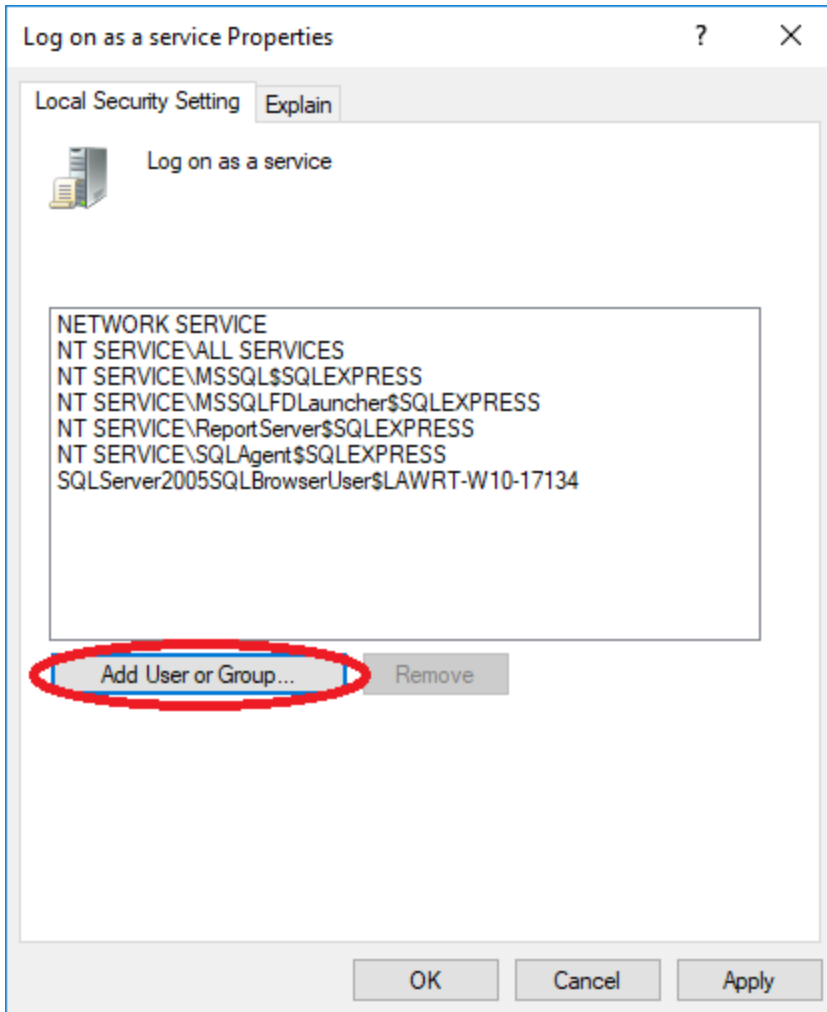
Before installing E3D Extractor, you must enable logon as a service for the current user. This is required as these programs are required to run as a service.

Open Administrative Tools, select Local Security Policy and open it

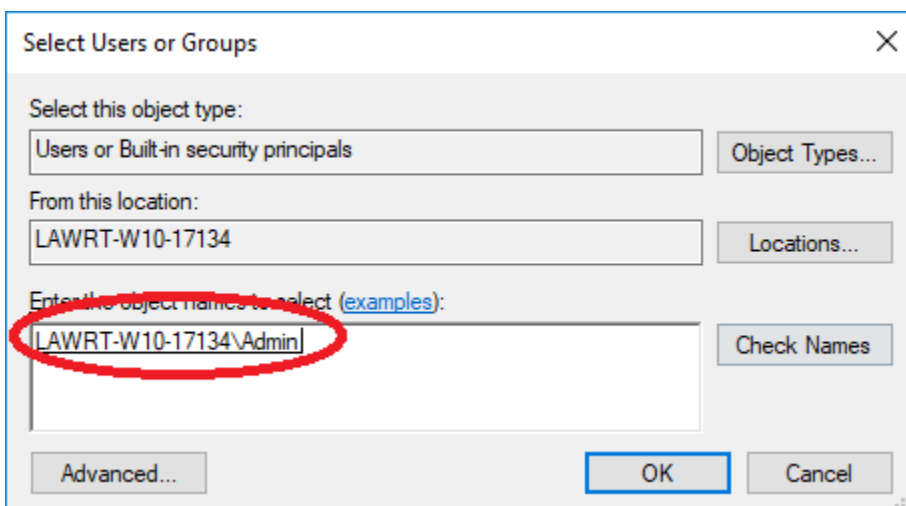


Go to Local Policies and User Rights Assignment, then select Log on as a service





Add the user name and click OK



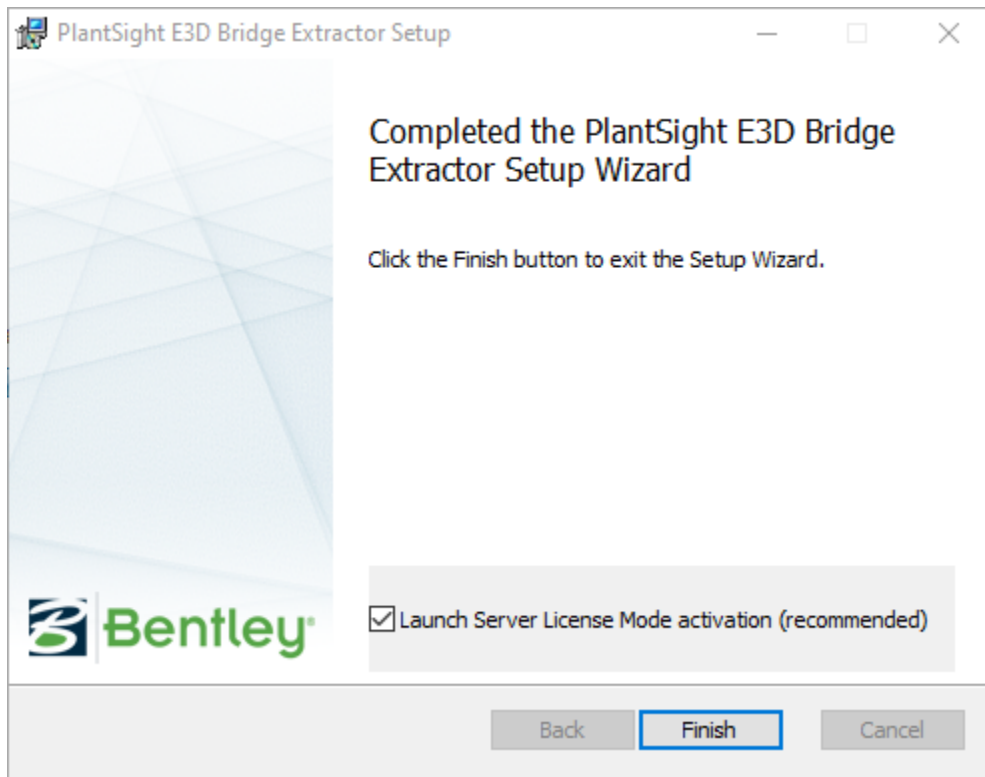
5. Software Installation and configuration

5.1. Installation of E3D Extractor

Install Setup_PlantSightE3DBridgeExtractorx64_10.xx.yy.zzz.exe.

5.1.1. Configure Licensing

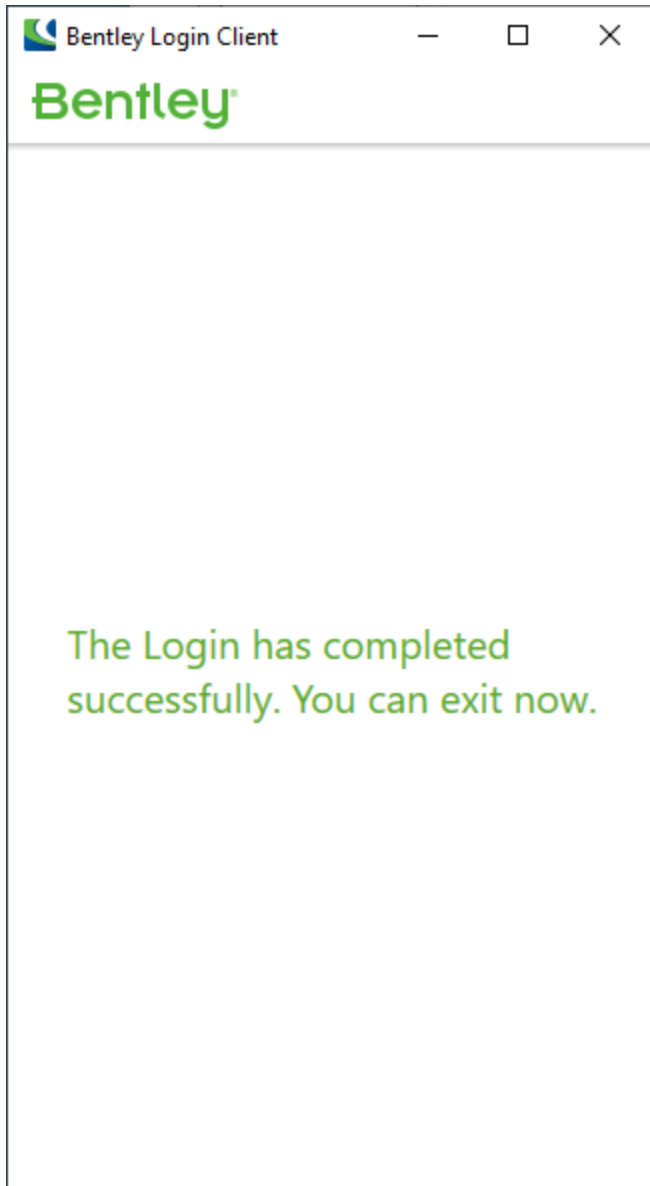
When the install finishes, you should configure the licensing. The licensing for E3D Extractor now uses SES licensing.



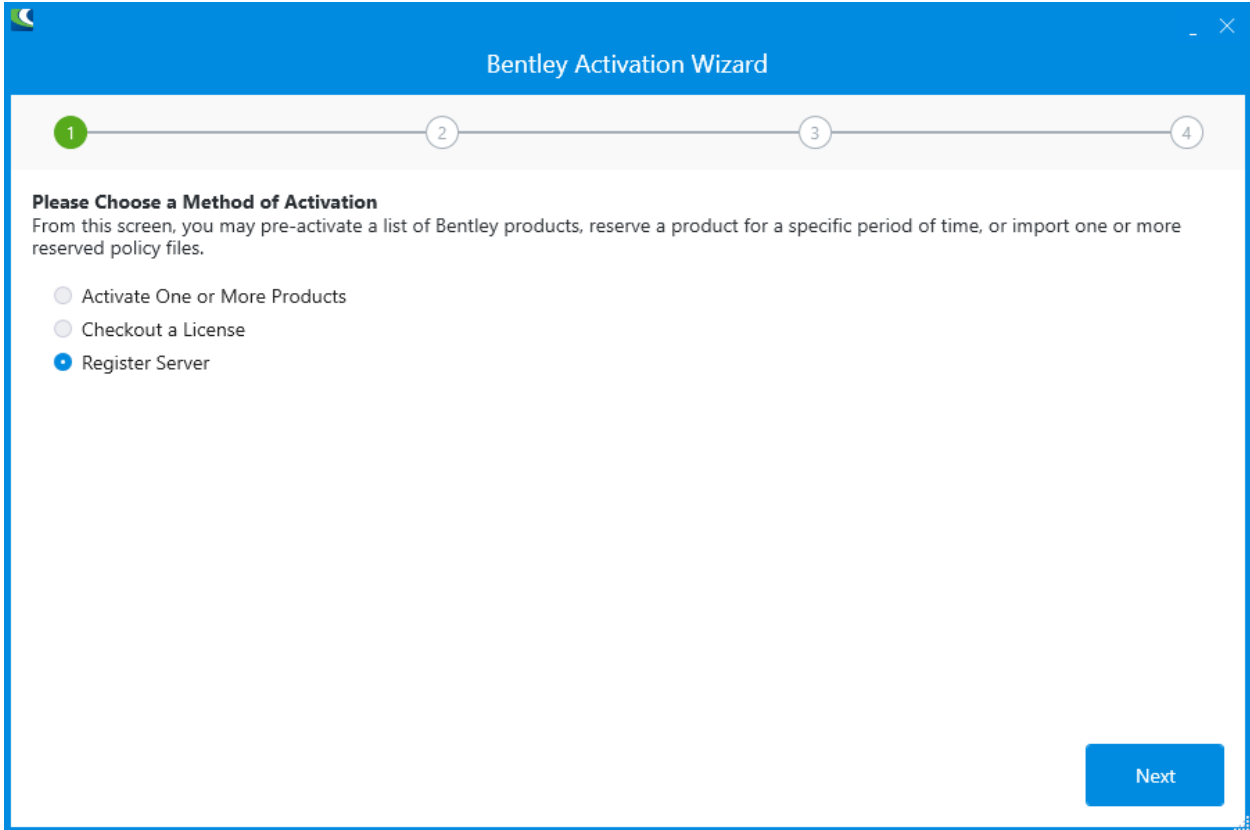
Clicking finish will bring up the Bentley Login Client. Enter the credentials you normally use for the CONNECTION Client.

The image shows a window titled "Bentley Login Client" with standard window controls (minimize, maximize, close). The Bentley logo is displayed at the top left. Below the logo, the text "Sign In" is followed by "Access your Bentley Services". There are two input fields: "Email" and "Password". The "Password" field includes a visibility toggle icon (an eye). Below the password field is a blue link labeled "Forgot password?". At the bottom of the form is a large green button with the text "Sign In".

After entering your credentials, you should get this:



Closing this window will bring up the activation wizard where you will add the licensed products you will be using.



Select a country:

Bentley Activation Wizard

1 2 3 4

Register this machine for Bentley Server Products

Machine Name: LAWRT-18363-657

Country: United States

Allow users outside server

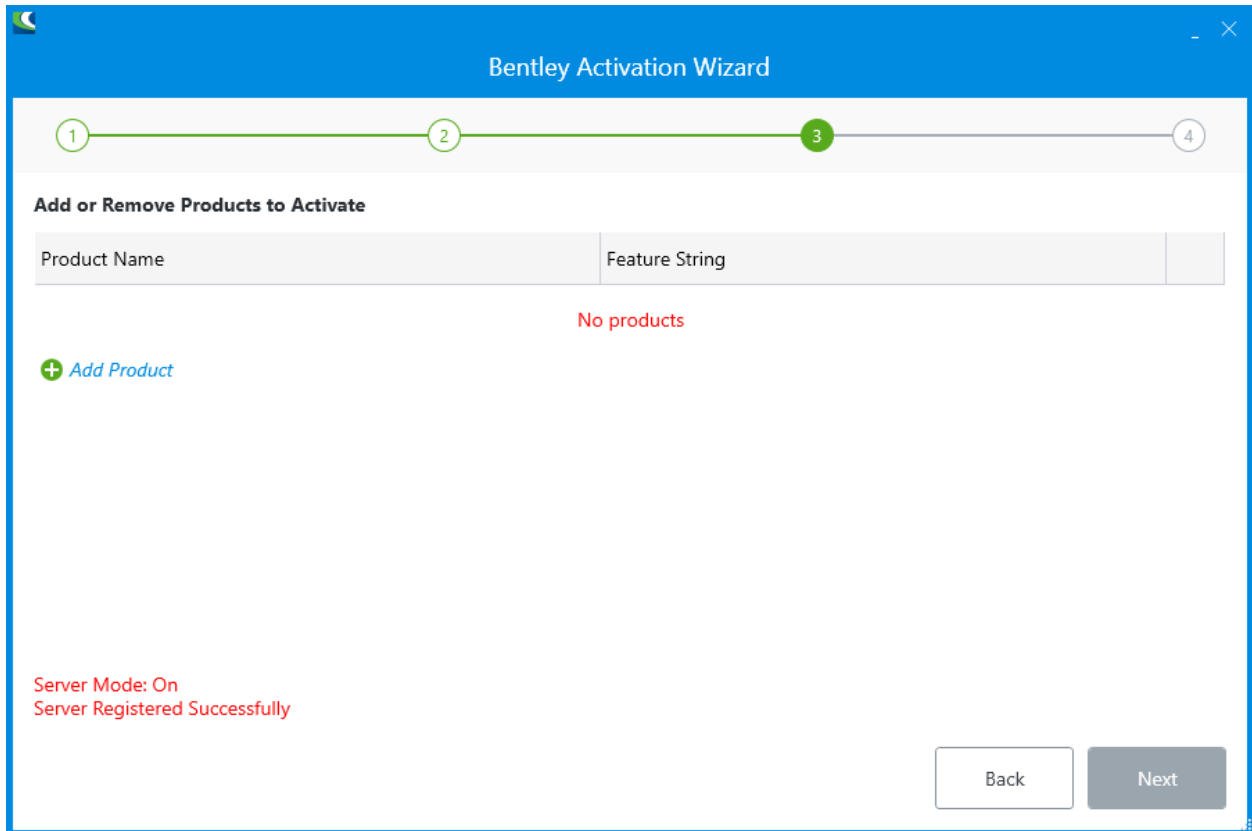
- Brazil
- India
- United Kingdom
- United States

Threshold alerting is not available in server mode. Any threshold alerting configured in Entitlement Management will be ignored.

Back Next

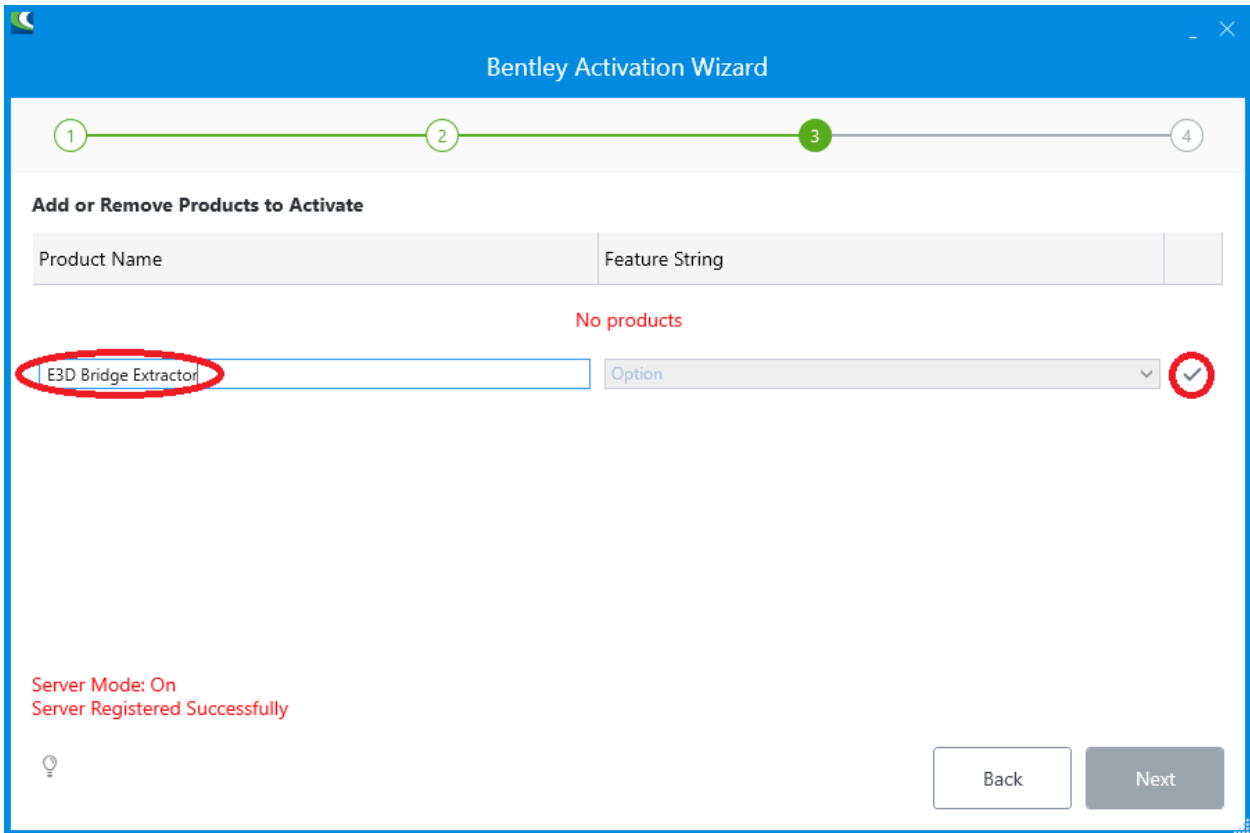
And click Next.

Now you will need to add the products that will be used. Note that when using server based licensing, all products used on this machine will have the usage against this user.

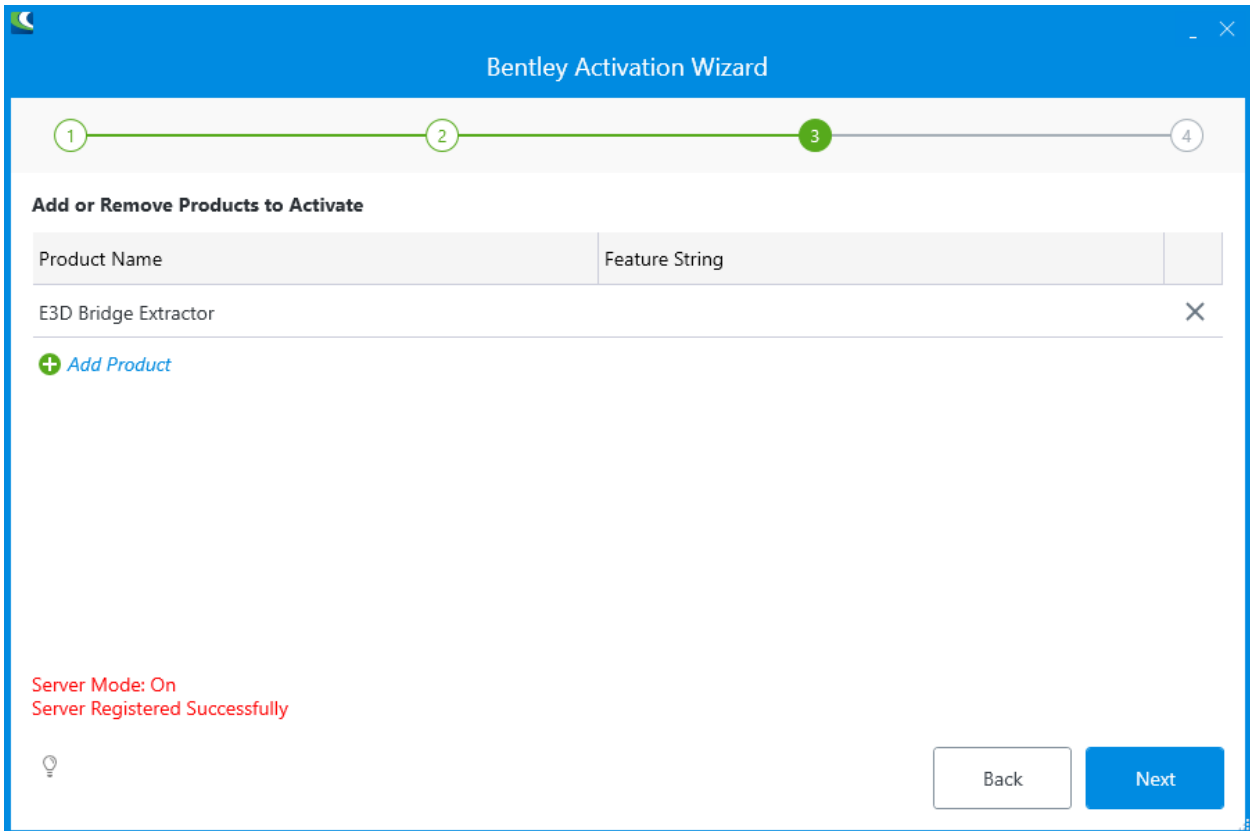


Click "+ Add Product"

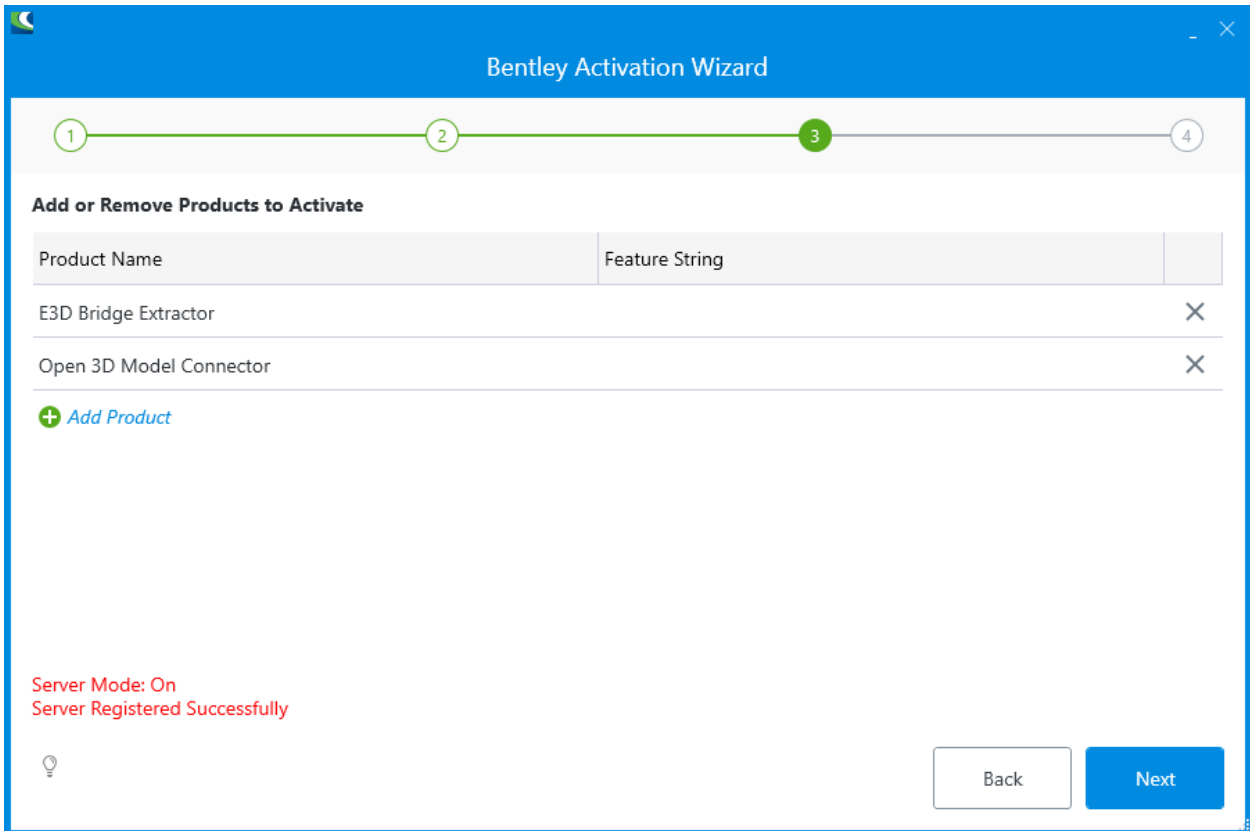
Type in "PlantSight E3D Extractor". Make sure the selection is in the text box and then click the check mark at the right.



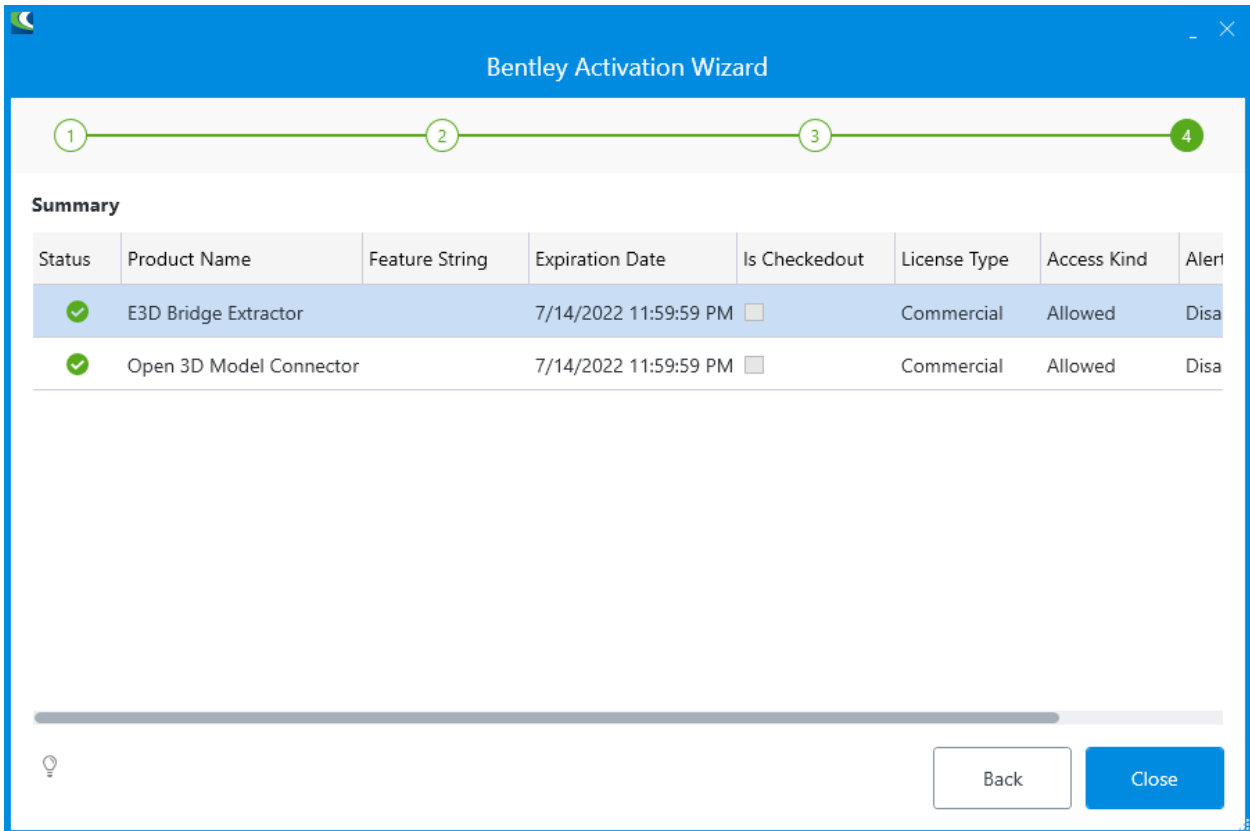
You should then have this:



Click the “+ Add Product” again and this time add “Open 3D Model Connector”. After adding this product, the wizard should look like this:



Click Next. You should see that the status for both products is labeled with a green checkmark.



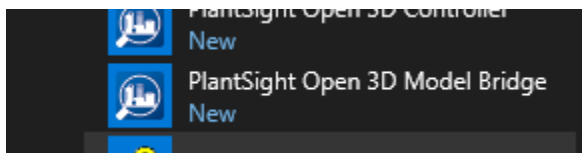
Press close and the install of the E3D Extractor should be complete.

5.2. Installation of Open 3D Model Connector

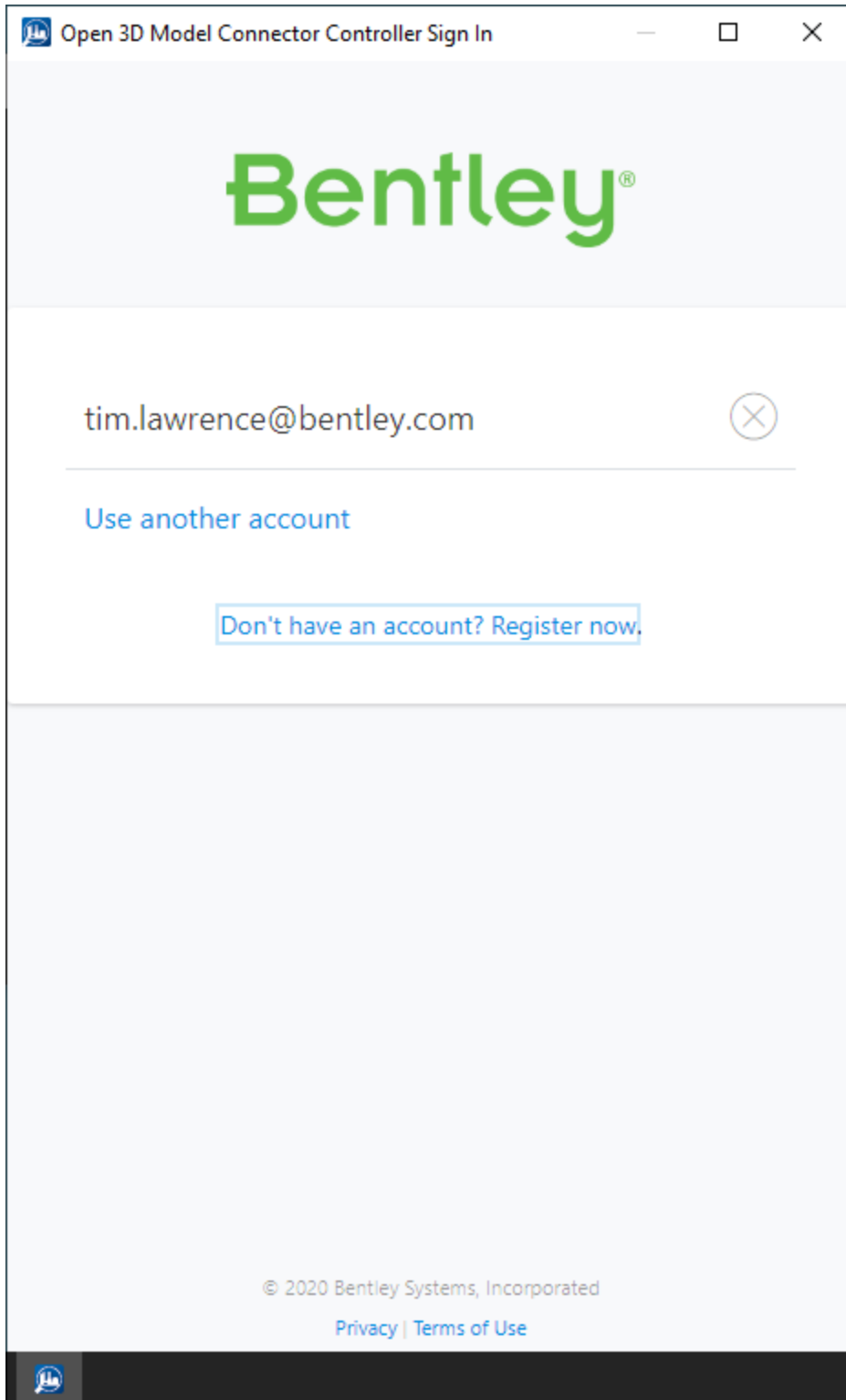
Install Setup_PlantSightOpen3DModelBridgex64_10.xx.yy.zz.exe.

6. Run the Open 3D Model Connector

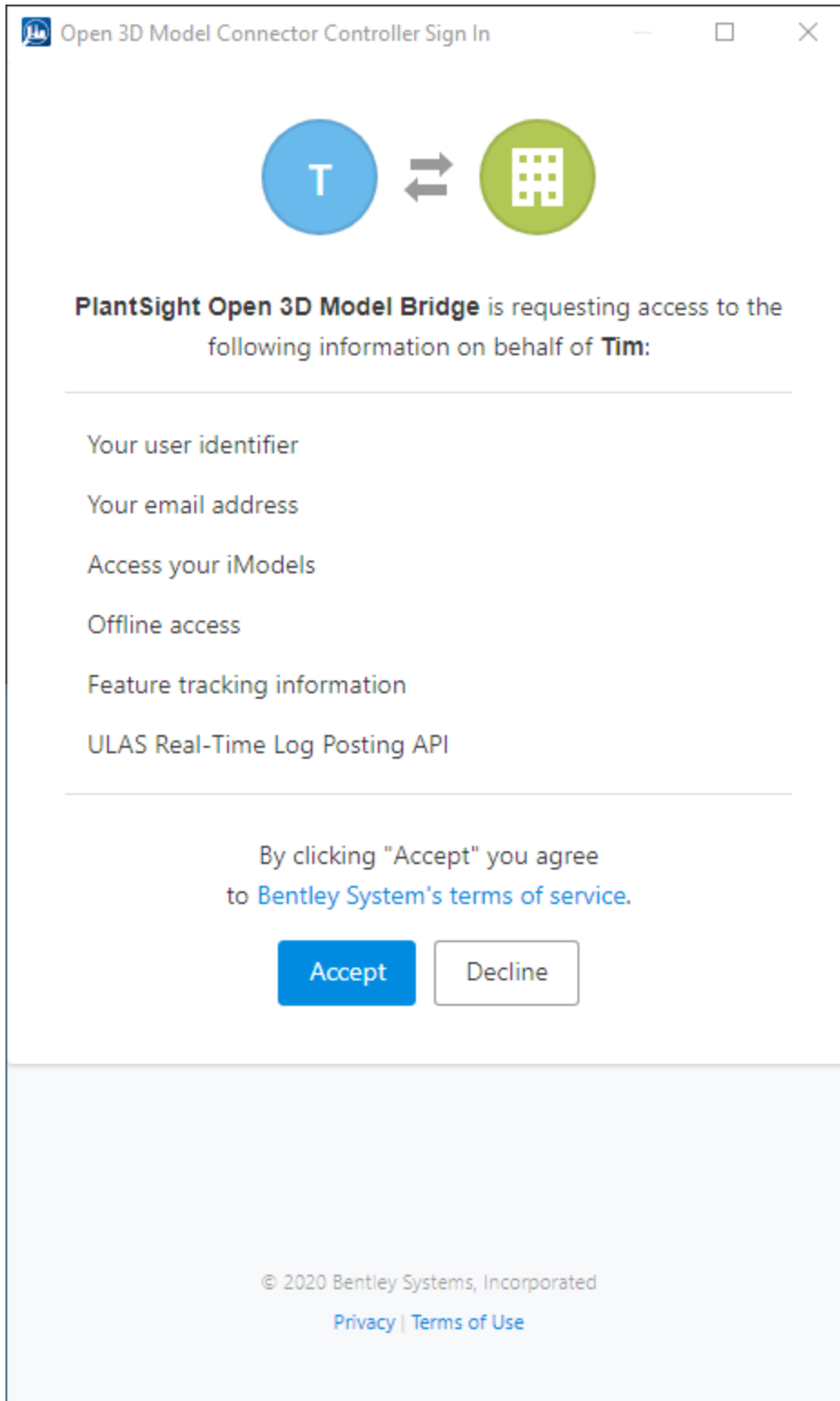
In the start menu find PlantSight Open 3D Model Bridge.



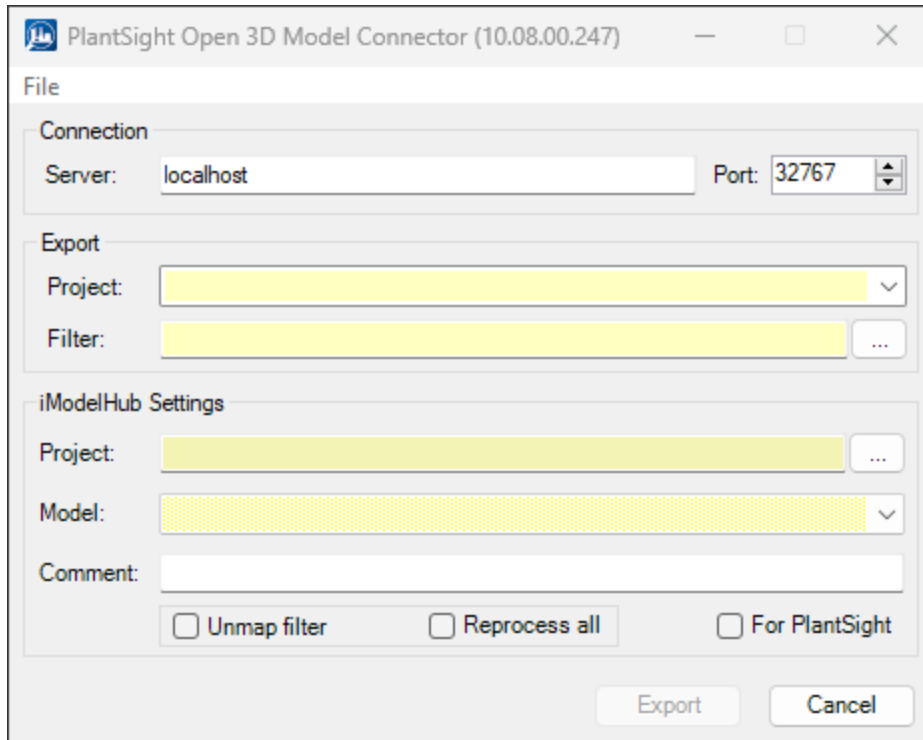
The first time you run it, you will need to authenticate:



Then accept the permission request:



Then the connector will appear:



Use “local host” for the server site since the E3D Extractor is running on the same machine as the controller. If this is not the case, then you can use the IP Address or the machine name instead of local host.

You also need to set the port number. The default value is set to 32767, which is the default value for the Smart 3D Extractor. The default value for the E3D Extractor is 32770, so enter this value in this case. If you want to confirm the port number, run the E3D Admin application which displays the port number it is using.

Select the CONNECTED and the iModel, then click Export to run the iModel Connector.

The additional check boxes are:

Unmap filter: This is used when you want to remove a synchronized filter from the iModel. Selecting this and running the connector will result in the content from the filter to be removed from the latest changeset in the iModel.

Reprocess all: In order to utilize changes in a new connector release when your source models have not changed, select this option which will force the synchronization on all elements. Normally if the source data has not changed, a connector run will skip over the synchronization.

For PlantSight: If you are using PlantSight for this iModel and are using the aggregation capabilities, select this option in order to have the iModel Connector create the functional staging model that is required for aggregation.