

Converting PDMS/E3D for PlantSight

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 Bridge Extractor and the PlantSight Open 3D Model Bridge with PlantSight.

2. Software to download

2.1. E3D Bridge Extractor

Navigate to:

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

The screenshot shows a web browser window displaying the Bentley Software Downloads page for the PlantSight E3D Bridge Extractor. The page features a navigation bar with 'Home', 'Bentley Systems Inc', 'Assets', and 'Projects'. A blue header bar contains 'Software Downloads' and 'Product Details', along with a 'Show Internal Products and Deliverables' toggle set to 'Yes'. The main content area includes a product icon, a description of the E3D Bridge Extractor, and a filter table. The filter table has columns for Generation, Version, Language, Architecture, Deliverable Type, and Subscription Entitlement. The current filters are: Generation: CONNECT Edition, Version: 10.08.00.08, Language: English, Architecture: x64, Deliverable Type: Installer, and Subscription Entitlement: Yes. Below the filters is a 'Download' button and a table listing the product details: 'PlantSight E3D Bridge Extractor CONNECT Edition x64 (SES) (English) - Internal SELECT Review' with version 10.08.00.08, date 07/24/2020, size 492 MB, and system requirements. A 'Related Software' sidebar on the right lists 'PlantSight SPPID Bridge' and 'PlantSight AVEVA PID Bridge', each with a 'Get Software' button. The footer contains copyright information for Bentley Systems, Incorporated.

Generation	Version	Language	Architecture	Deliverable Type	Subscription Entitlement
CONNECT Edition	10.08.00.08	English	x64	Installer	Yes

Product Name	Version	Date	Size	System Requirements
PlantSight E3D Bridge Extractor CONNECT Edition x64 (SES) (English) - Internal SELECT Review	10.08.00.08	07/24/2020	492 MB	System Requirements

2.2. Open 3D Model Connector

Navigate to:

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

The screenshot shows a web browser window with the URL softwaredownloads.bentley.com/en/ProductDetails/2736. The page title is "PlantSight Open 3D Model Bridge". The description states: "The PlantSight Open 3D Model Bridge 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." Below the description is a filter table with columns: Generation, Version, Language, Architecture, Deliverable Type, and Subscription Entitlement. The filters are set to: CONNECT Edition, 10.08.00.08, English, x64, Installer, and Yes. There are "Apply" and "Clear" buttons. Below the filters is a download card for "PlantSight Open 3D Model Bridge CONNECT Edition x64 (SES) (English) - Internal SELECT Review" with a "Download" button. The card also shows "Version:10.08.00.08", "Date:07/24/2020", "Size:459 MB", and "System Requirements". A note says "*Clear the Default Filters to view more Downloads". On the right, the "Related Software" section lists "PlantSight SPPID Bridge" and "PlantSight AVEVA PID Bridge", each with a "Get Software" button. The footer contains copyright information: "© 2020 Bentley Systems, Incorporated | Terms of Service | Privacy | Terms of Use | Cookies | Legal Notices".

3. PDMS sample data

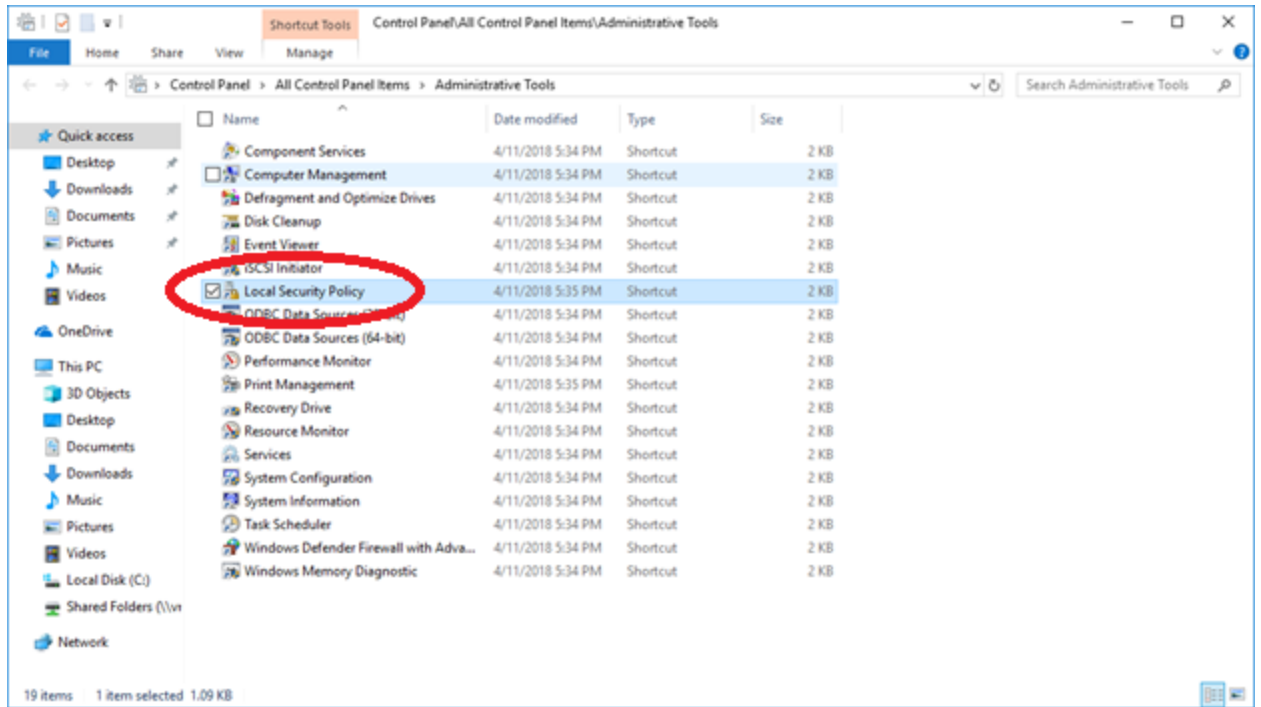
A copy of data exported from the PDMS Sample project can be found on the Teams site:

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

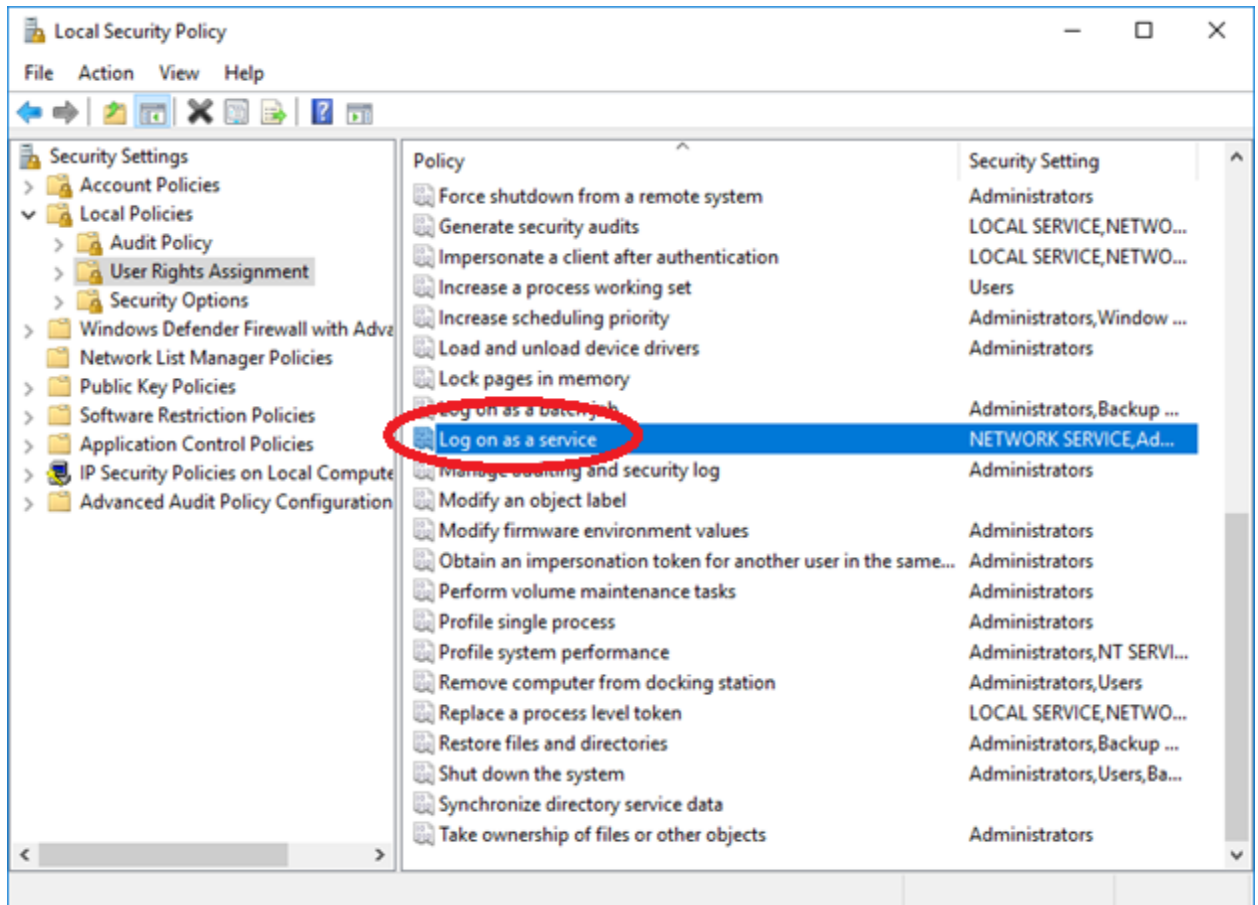
4. Set Logon as a Service

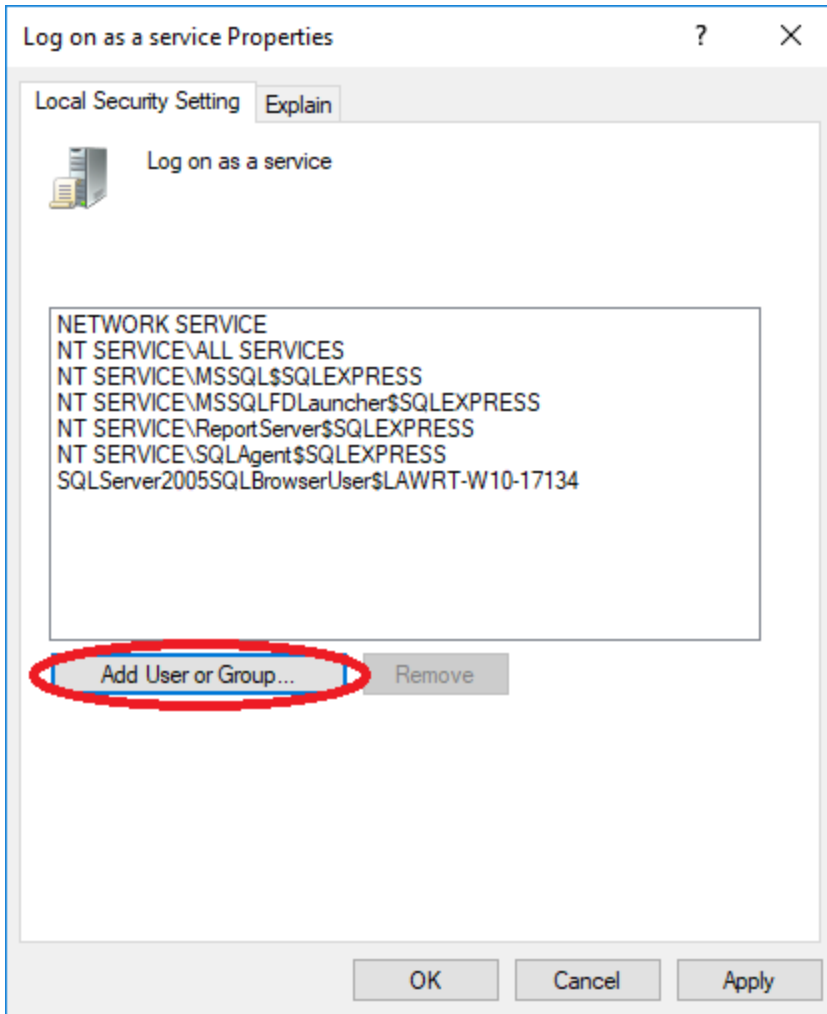
Before installing E3D Bridge Extractor, you must enable logon as a service for the current user. This is required as these programs are required to run as a service.

Open Administrative Tools, select Local Security Policy and open it

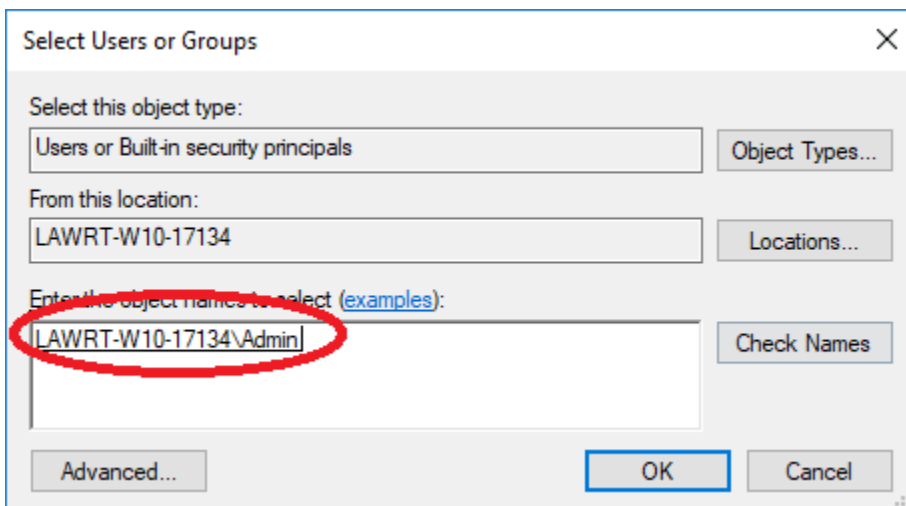


Go to Local Policies and User Rights Assignment, then select Log on as a service





Add the user name and click OK



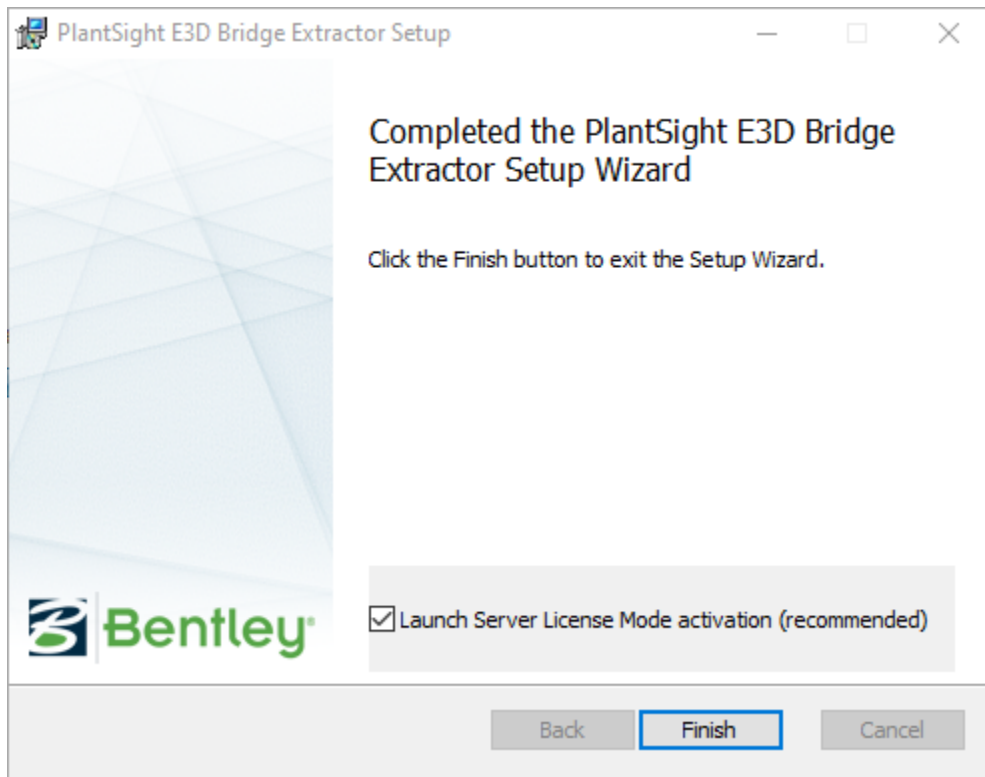
5. Software Installation and configuration

5.1. Installation of E3D Bridge Extractor

Install Setup_PlantSightE3DBridgeExtractorx64_10.xx.yy.zzz.exe.

5.1.1. Configure Licensing

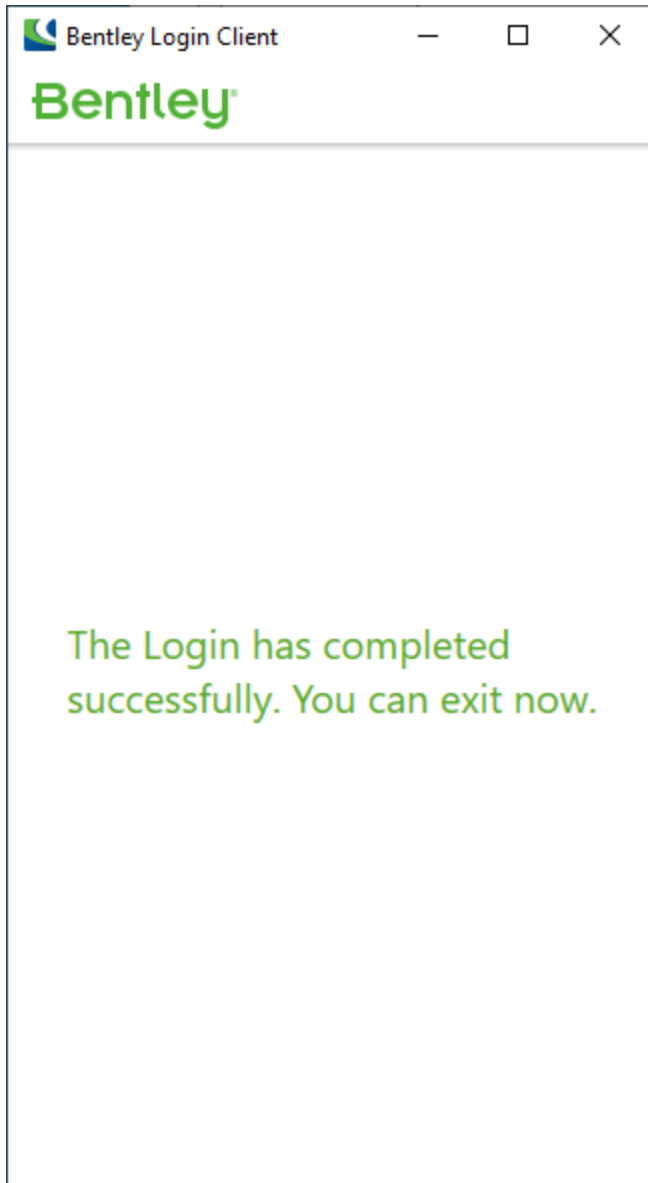
When the install finishes, you should configure the licensing. The licensing for E3D Bridge Extractor now uses SES licensing.



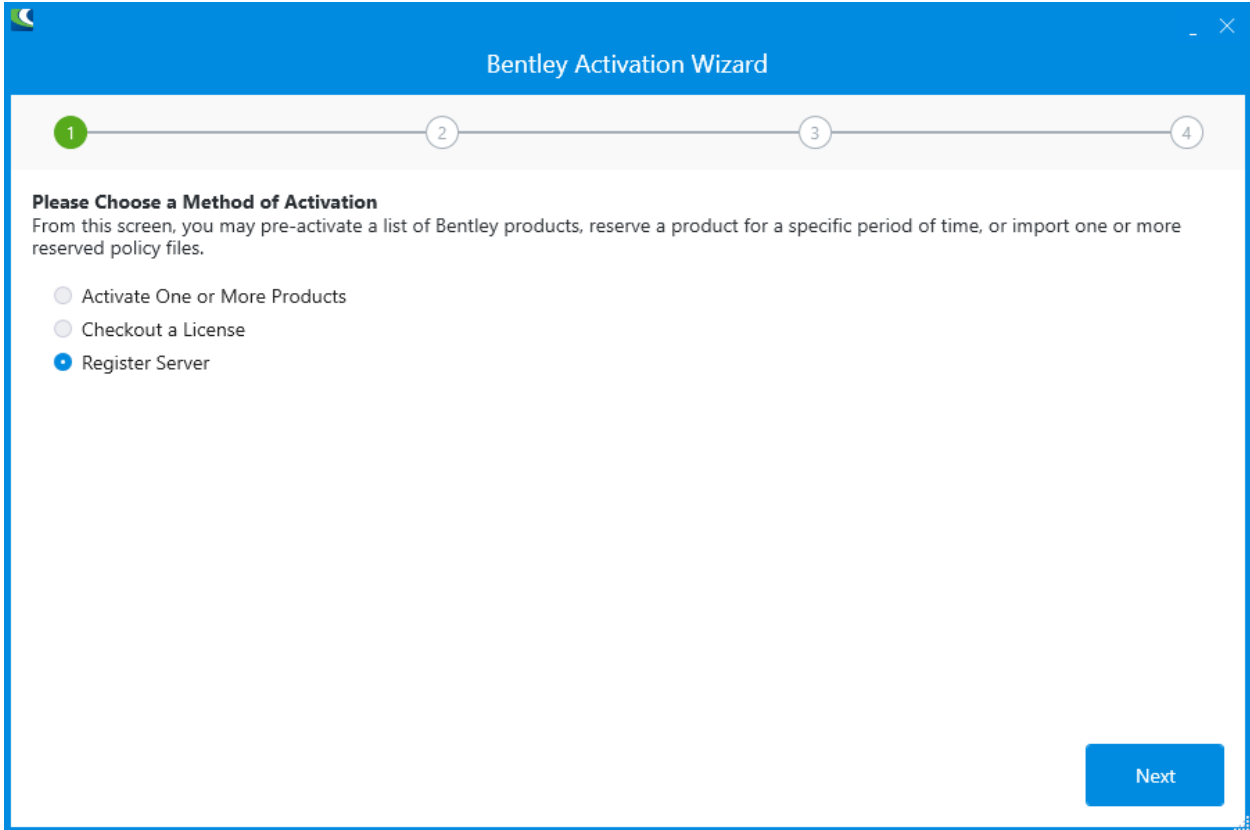
Clicking finish will bring up the Bentley Login Client. Enter the credentials you normally use for the CONNECTION Client.

The image shows a screenshot of a web browser window titled "Bentley Login Client". The window contains the Bentley logo at the top left. Below the logo, the text "Sign In" is displayed in a large font, followed by the subtitle "Access your Bentley Services". There are two input fields: one for "Email" and one for "Password". The password field includes a small eye icon on the right side, indicating a toggle for password visibility. Below the password field is a blue hyperlink that reads "Forgot password?". At the bottom of the form is a large green button with the text "Sign In" in white.

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

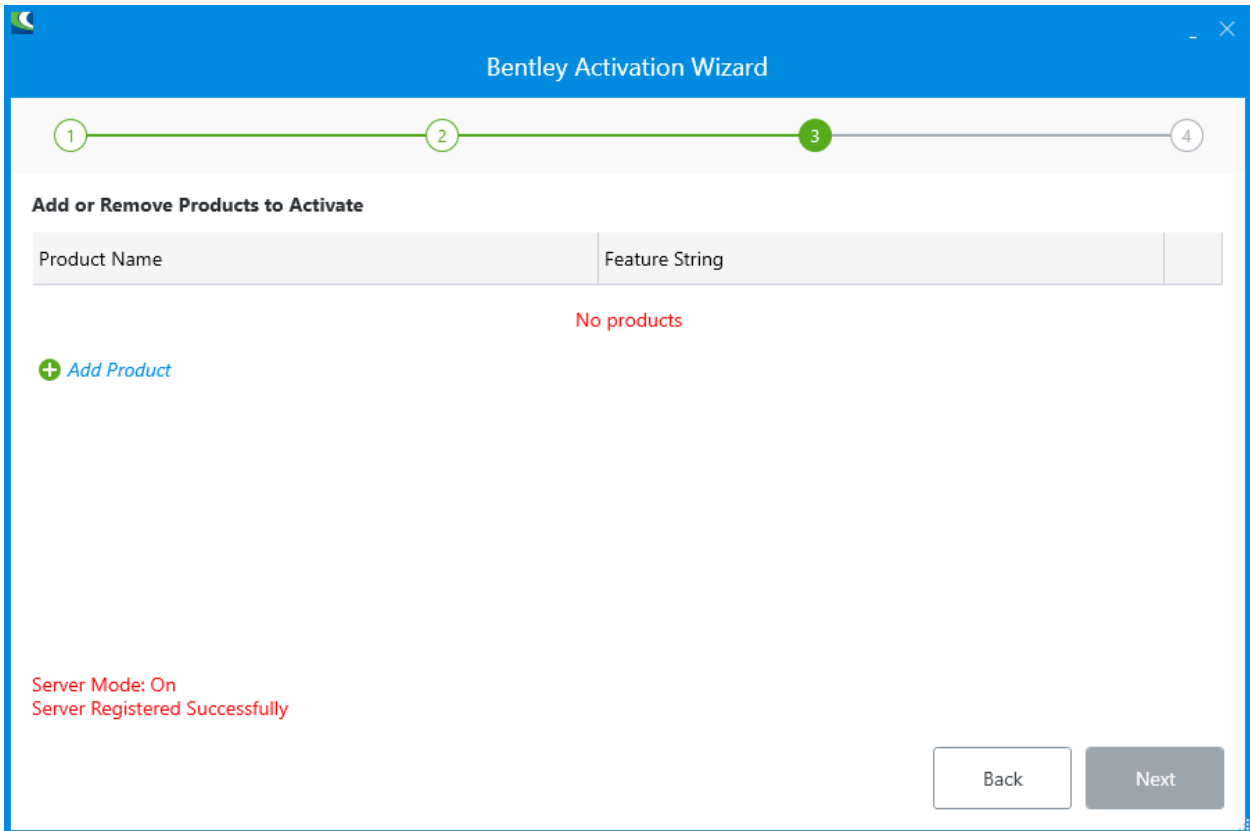
- Brazil
- India
- United Kingdom
- United States

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

Back Next

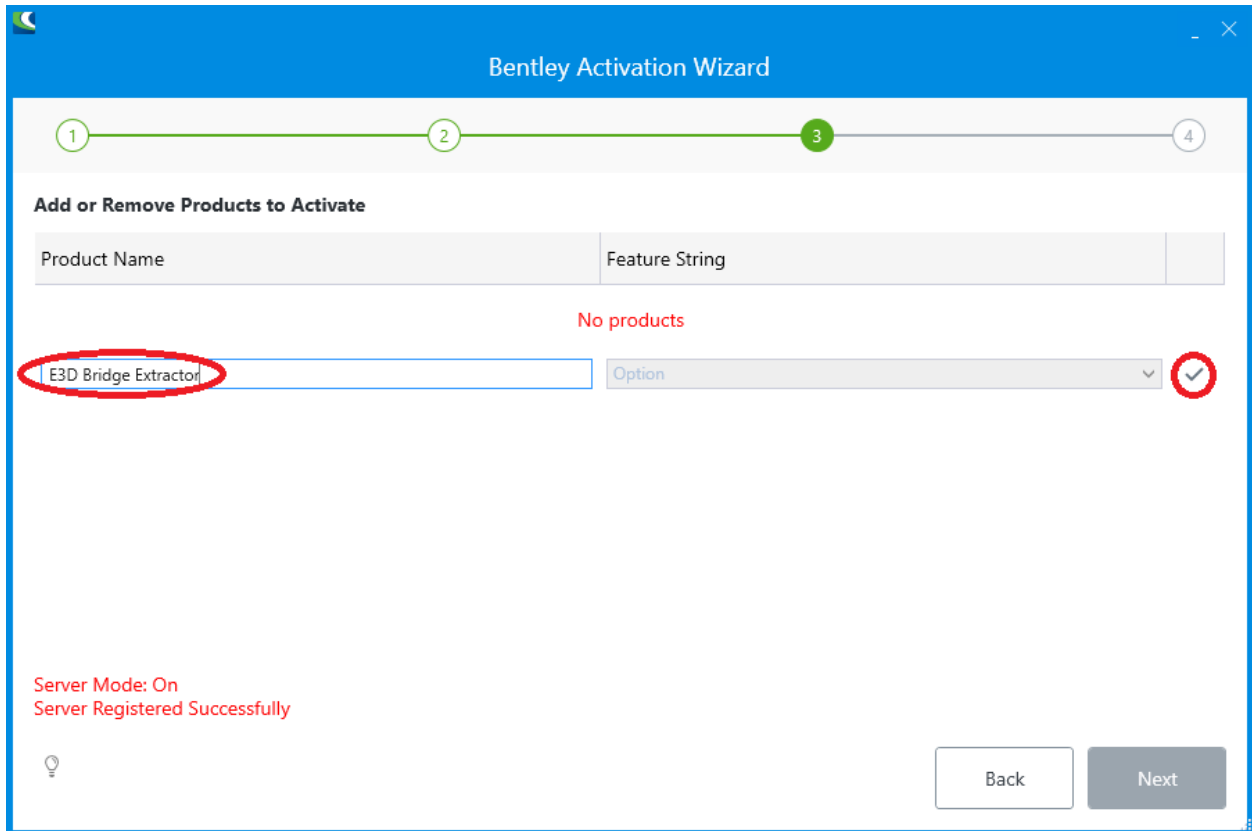
And click Next.

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.

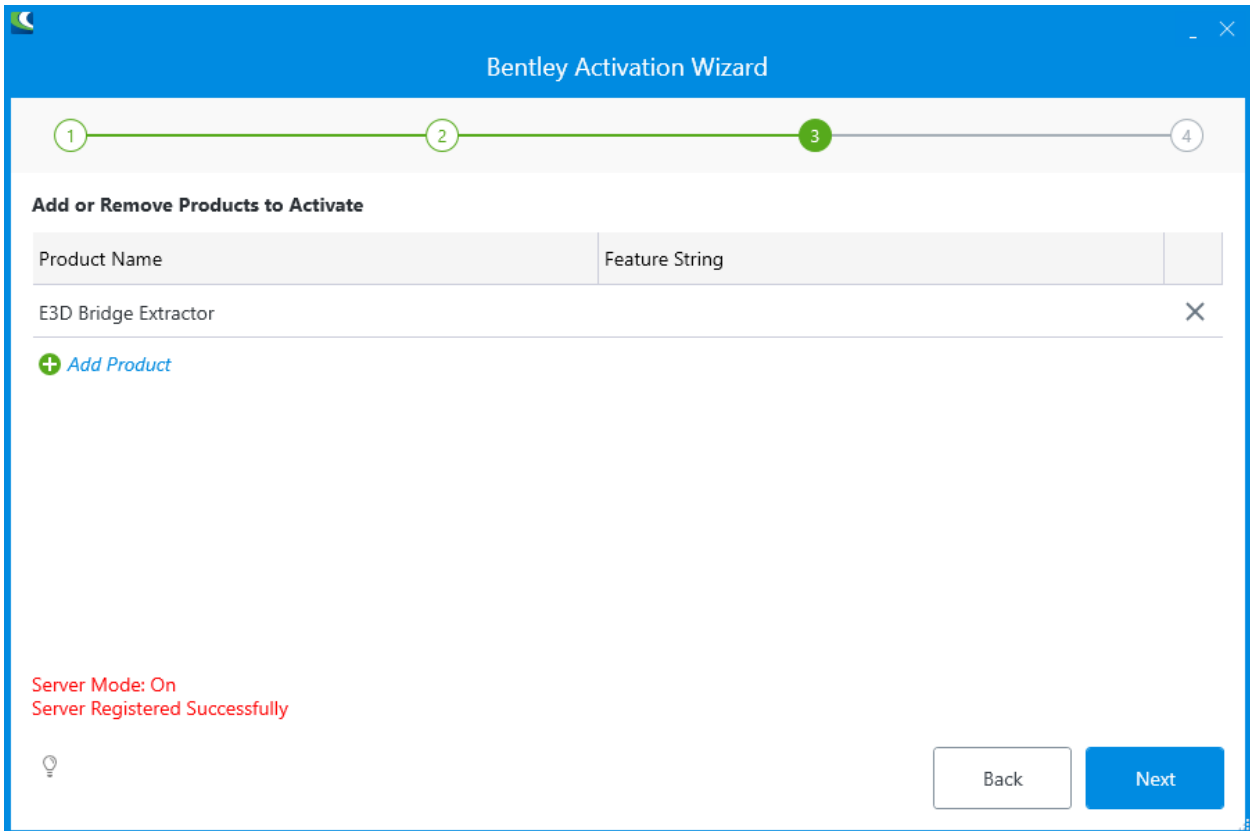


Click "+ Add Product"

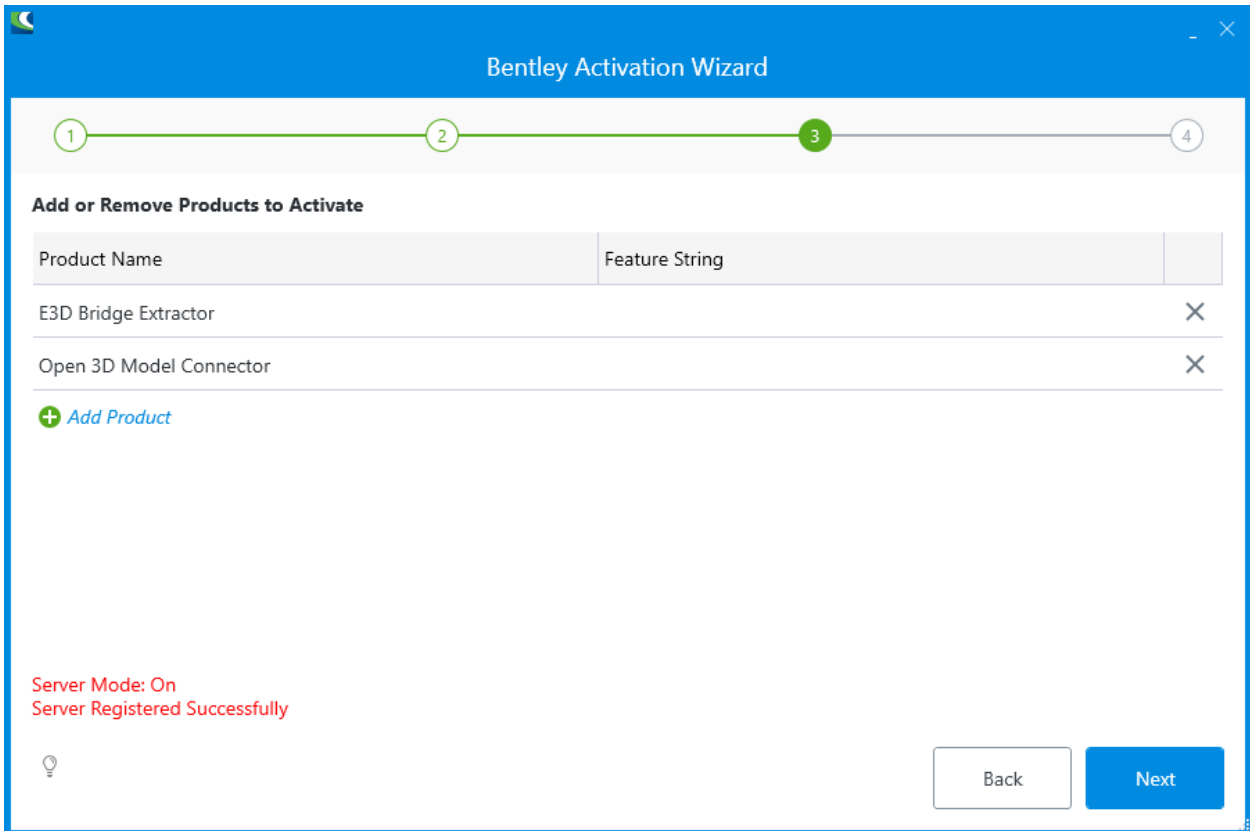
Type in "E3D Bridge Extractor". Make sure the selection is in the text box and then click the check mark at the right.



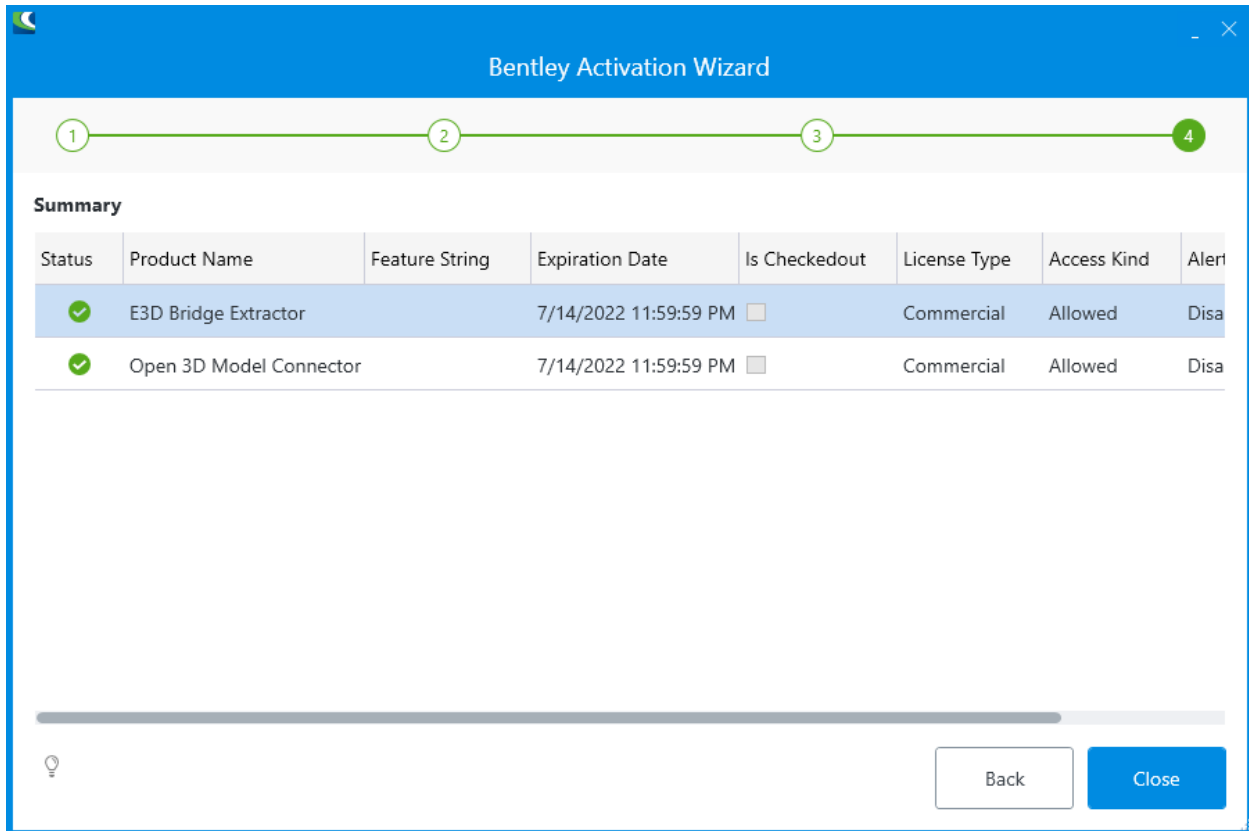
You should then have this:



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 PlantSight E3D Bridge Extractor should be complete.

5.2. Installation of Open 3D Model Bridge

Install Setup_PlantSightOpen3DModelBridgex64_10.xx.yy.zzz.exe.

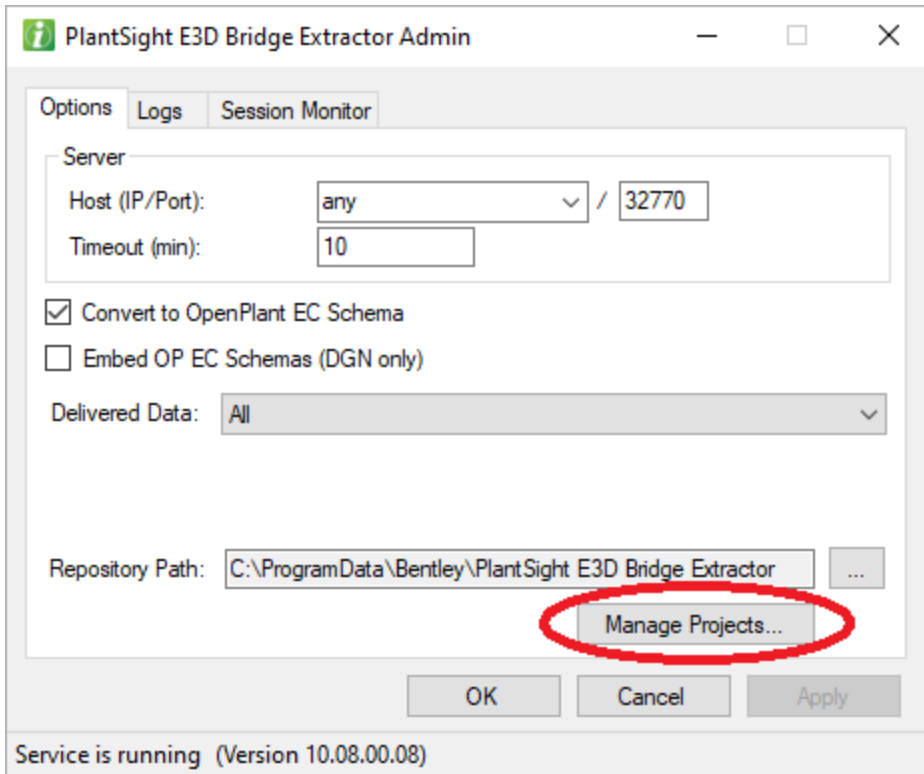
6. Configure PlantSight E3D Bridge Extractor

To configure E3D data, run “PlantSight E3D Bridge Extractor”

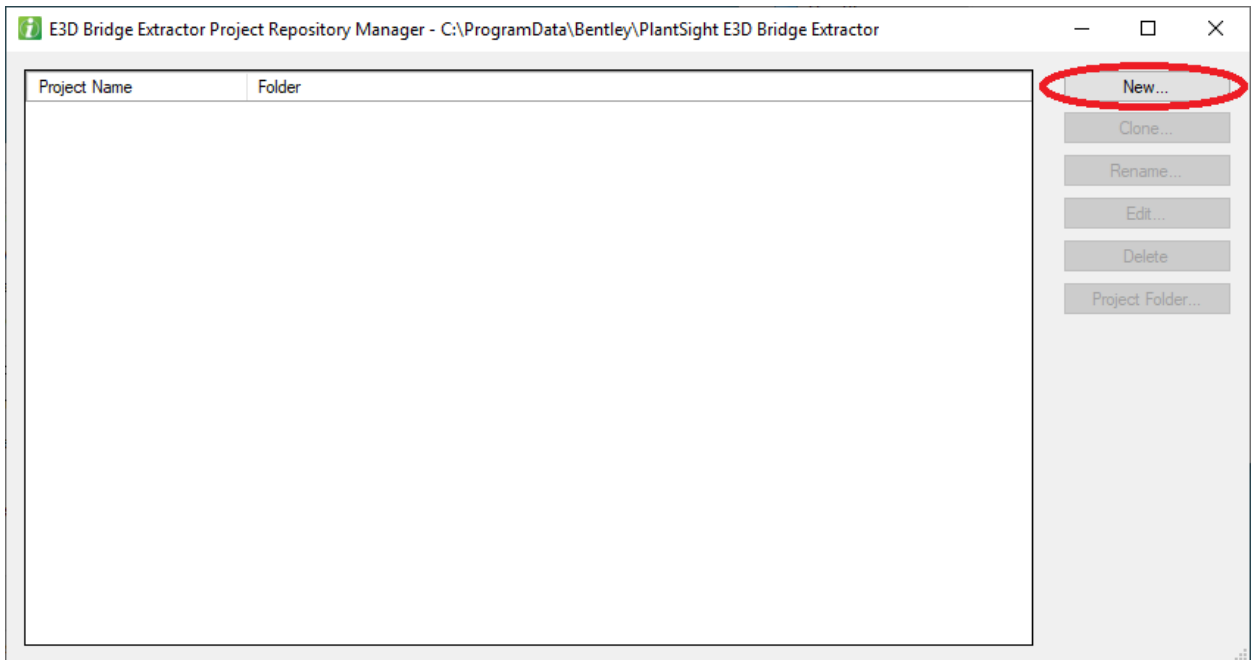
Ensure that the “Convert to OpenPlant EC Schema” checkbox is enabled.

If the Convert to OpenPlant EC Schema option is not selected, select and hit apply. You will be asked to restart the service and you should accept this.

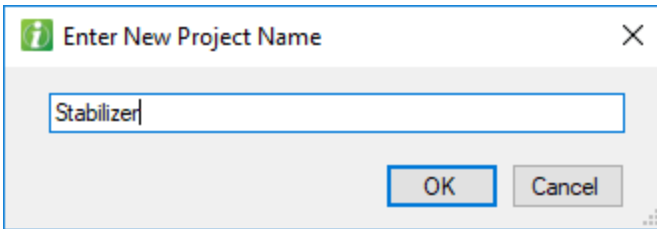
Click on “Manage Projects”



Then Click on New...

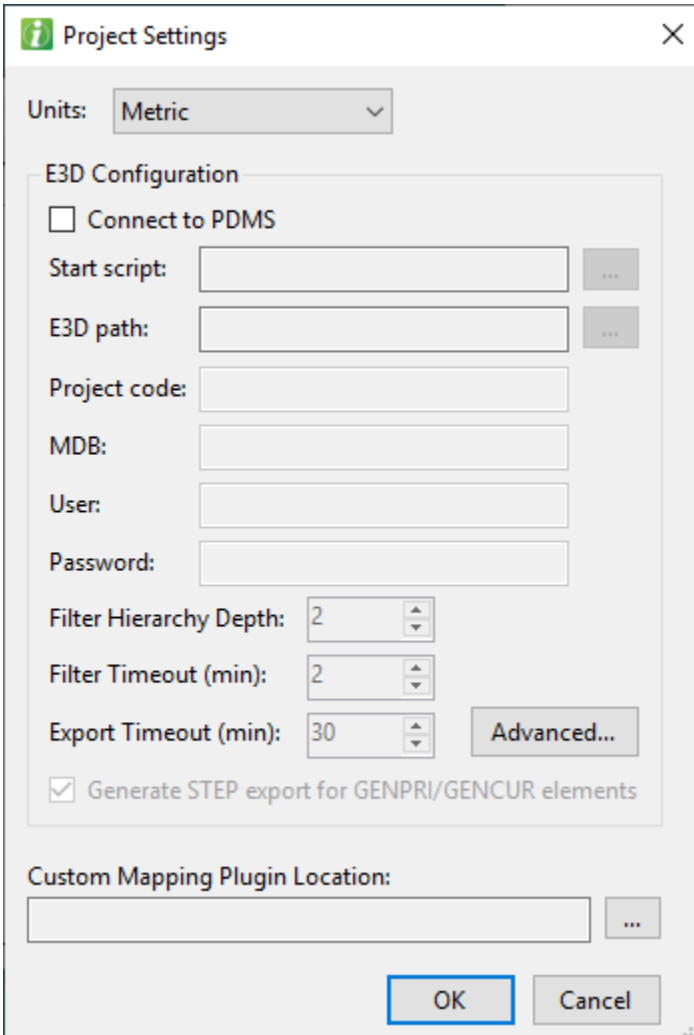


Name it "Stabilizer"



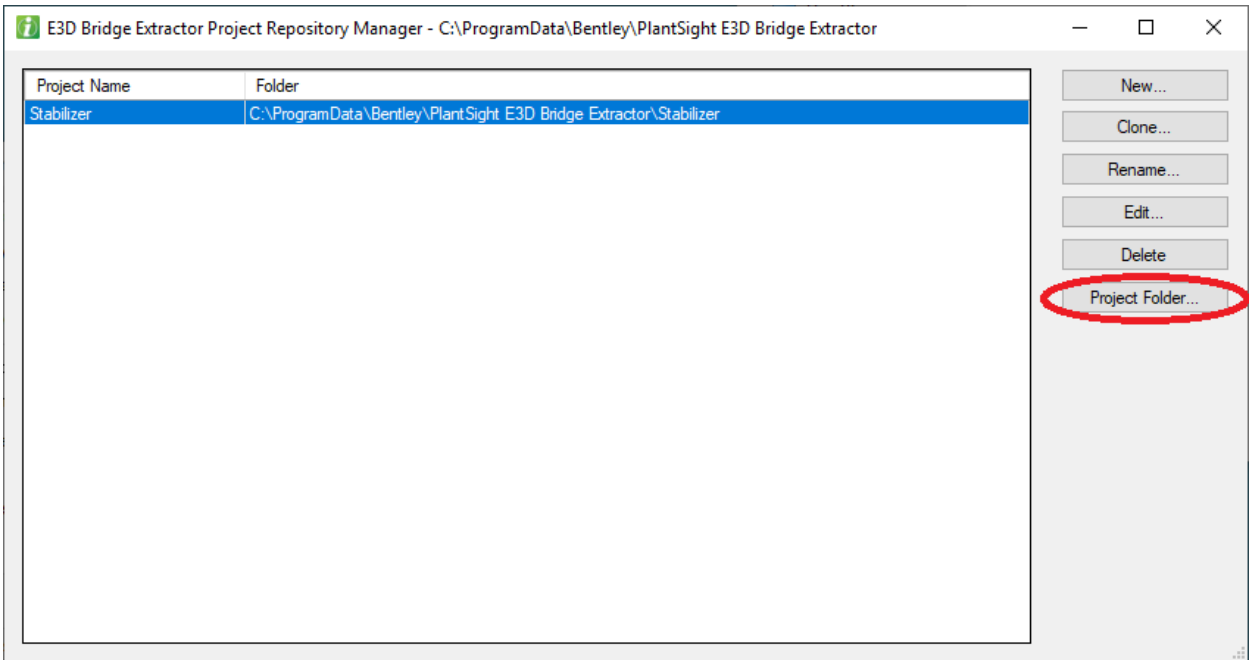
Click OK

Change the units to Metric

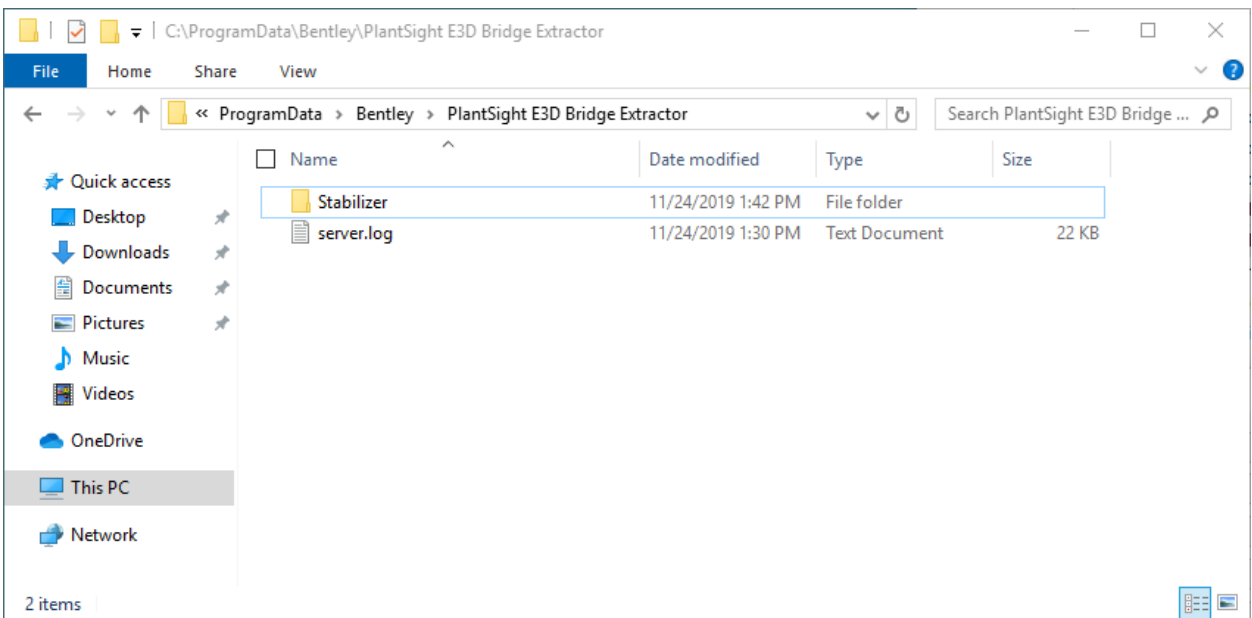


Click OK.

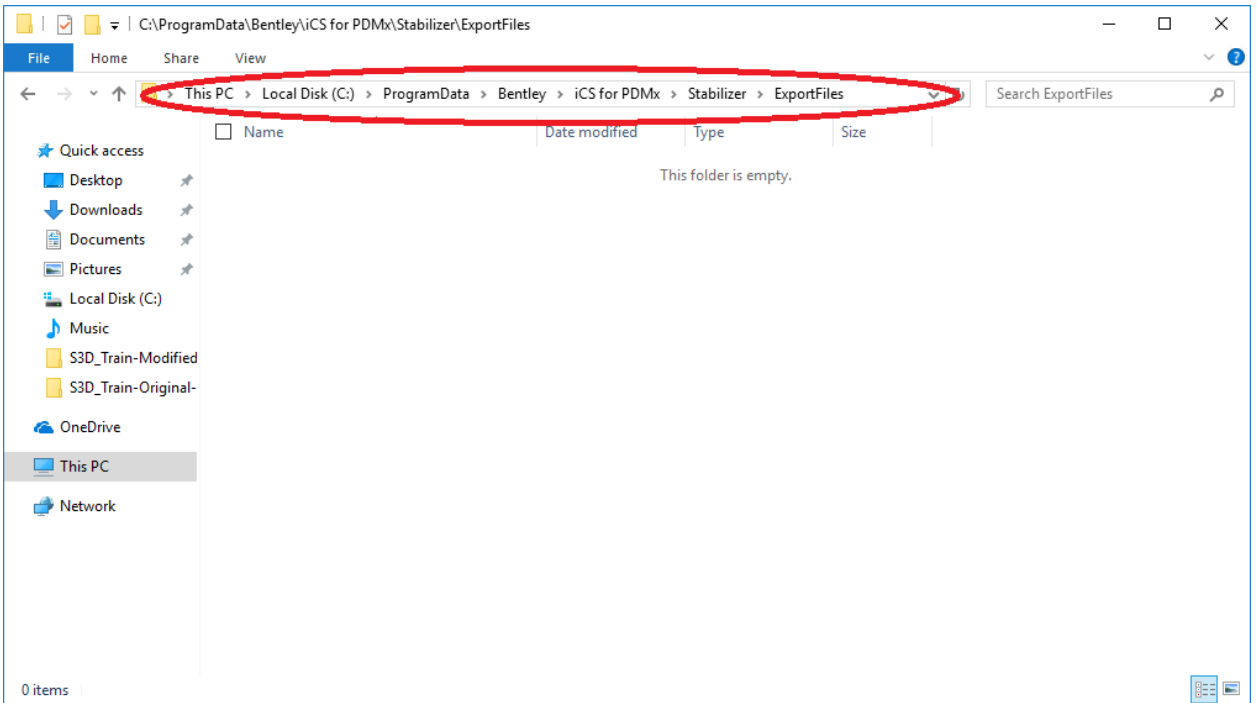
We do not need to configure this project to connect to E3D as we will use models that have already been exported from E3D.



Click Project Folder and Windows Explorer will open up to the Stabilizer project folder.

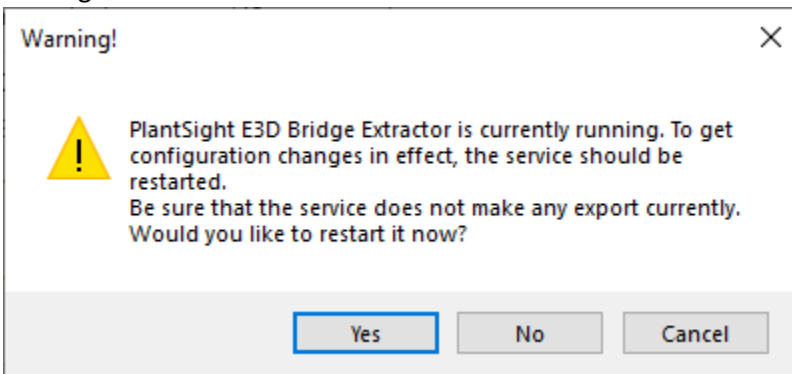


Go into the Stabilizer folder and then the Export Files folder.

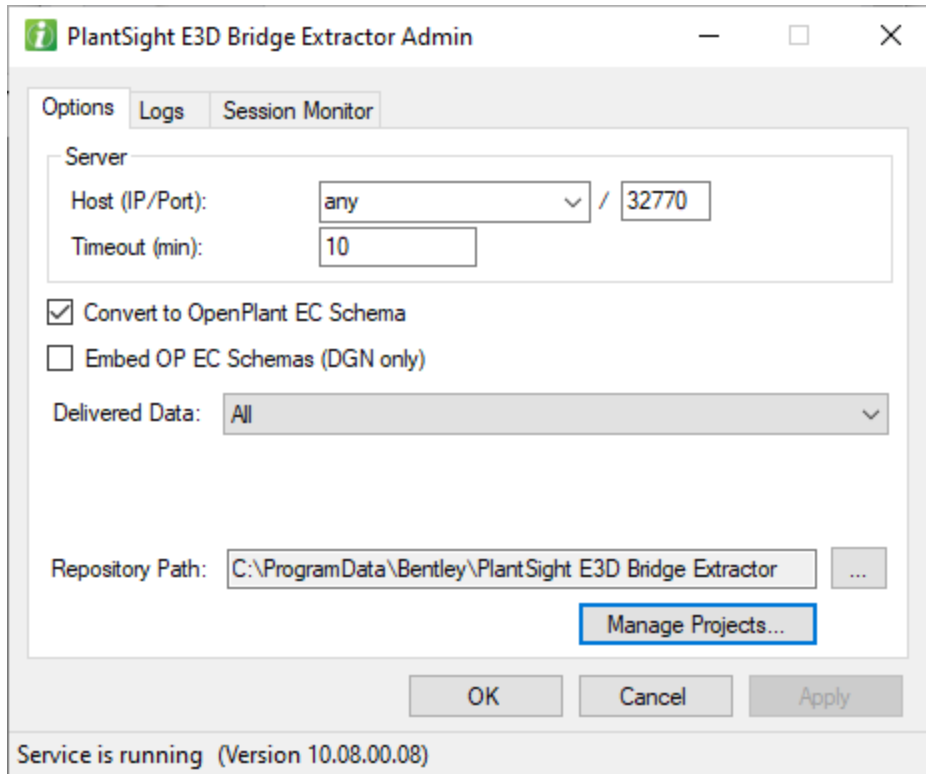


Copy stabilizer.pdmx.xml to this folder

Close the Project Repository Manager, then click OK to close the PDMx Admin. You may get this message:



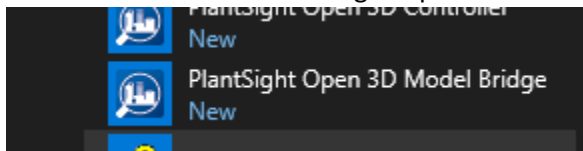
If so, click Yes.



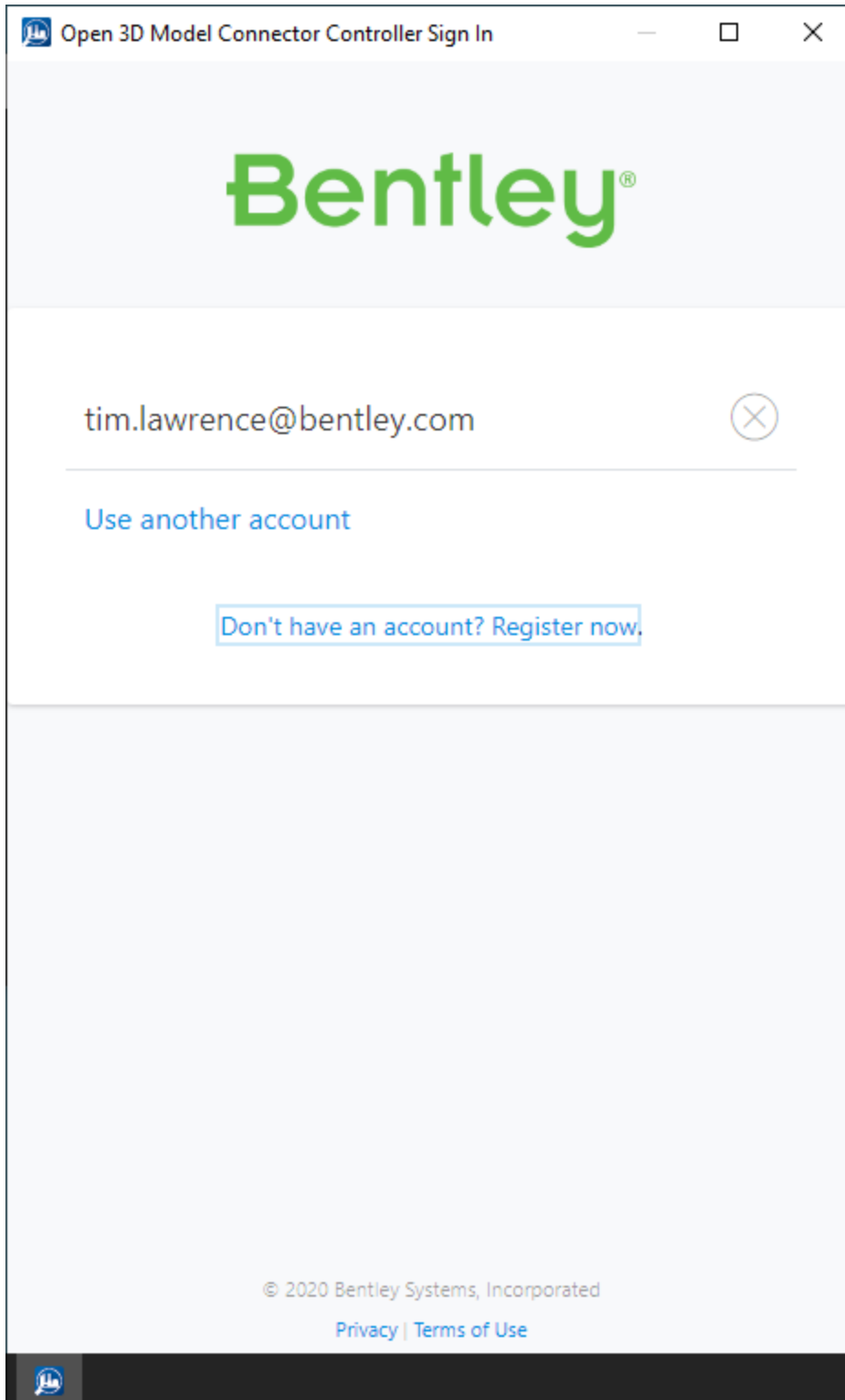
You can see that the default value is 32770.

7. Run the Open 3D Model Connector

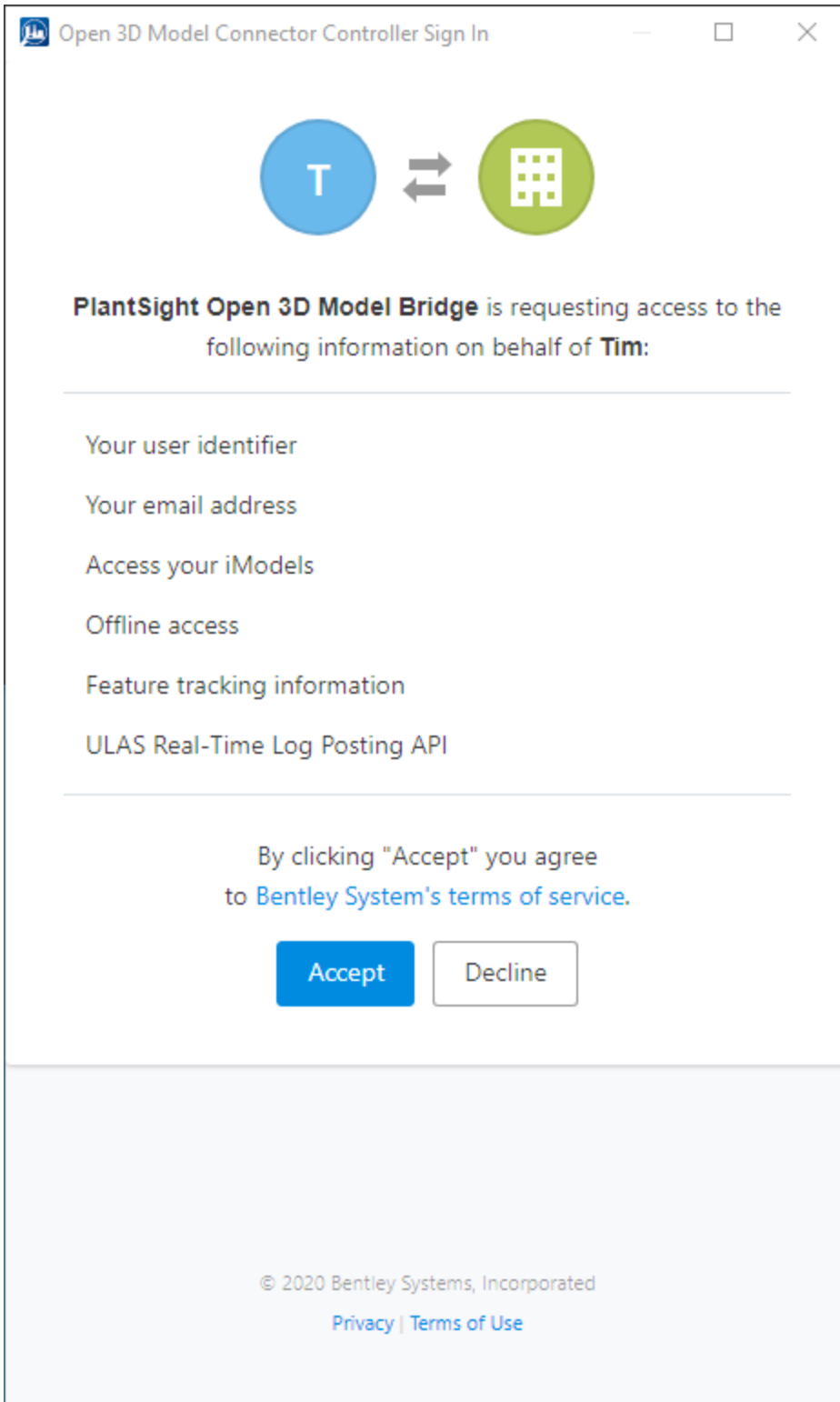
In the start menu find PlantSight Open 3D Model Bridge.



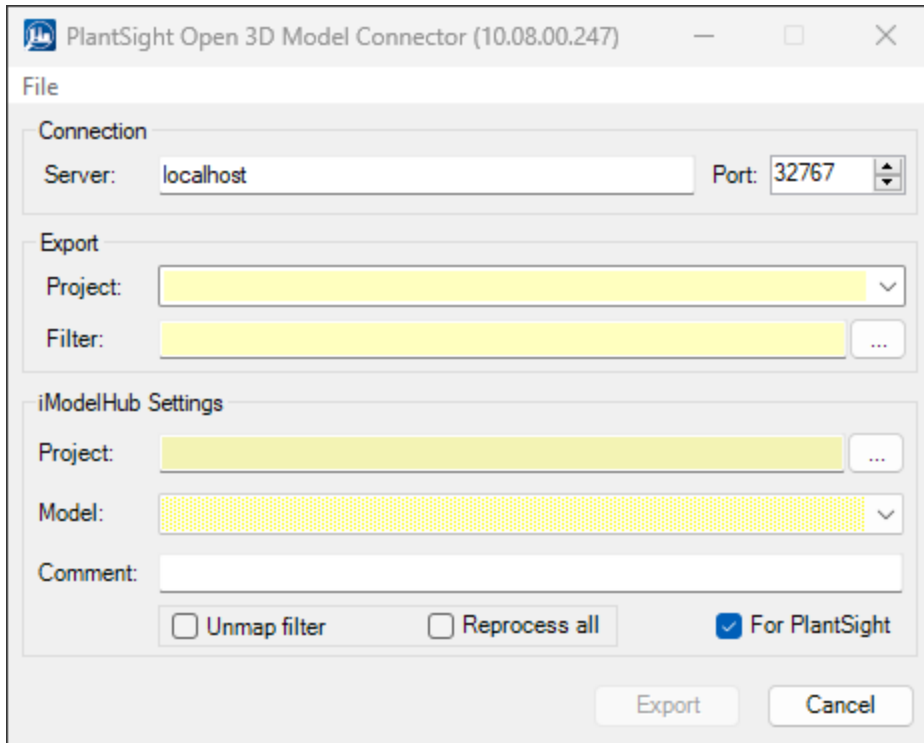
The first time you run it, you will need to authenticate:



Then accept the permission request:



Then the connector will appear:



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.