

Plantweb Insight™ Valve Health Application

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This quick start guide provides installation and initial setup information for the Plantweb Insight Valve Health application

Related Documents

In addition to this document, you will need the [Plantweb Insight Instruction Manual](#), document number 00809-0100-4541.

Using this Guide

This guide includes installation and operation information for the Plantweb Insight (PWI) Valve Health application. The Valve Health application is a digital software product that applies Emerson's valve expertise and analytics to help monitor, prioritize, and understand fleet-wide valve issues at a glance. This guide describes the process to obtain, install, license, and configure the Valve Health application within the Plantweb Insight framework.



Do not install, operate, or maintain Fisher product without being fully trained and qualified in valve, actuator, and accessory installation, operation, and maintenance. To avoid personal injury or property damage, it is important to carefully read, understand, and follow all contents of this quick start guide, including all safety cautions and warnings. If you have any questions about these instructions, contact your [Emerson sales office](#) before proceeding.

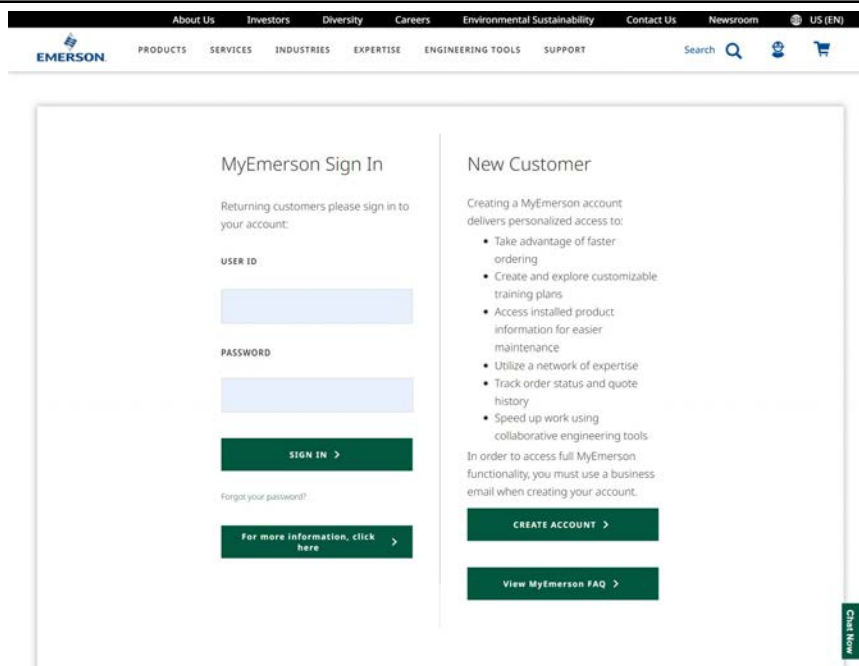
Prerequisites

Before you begin, the following must be complete:

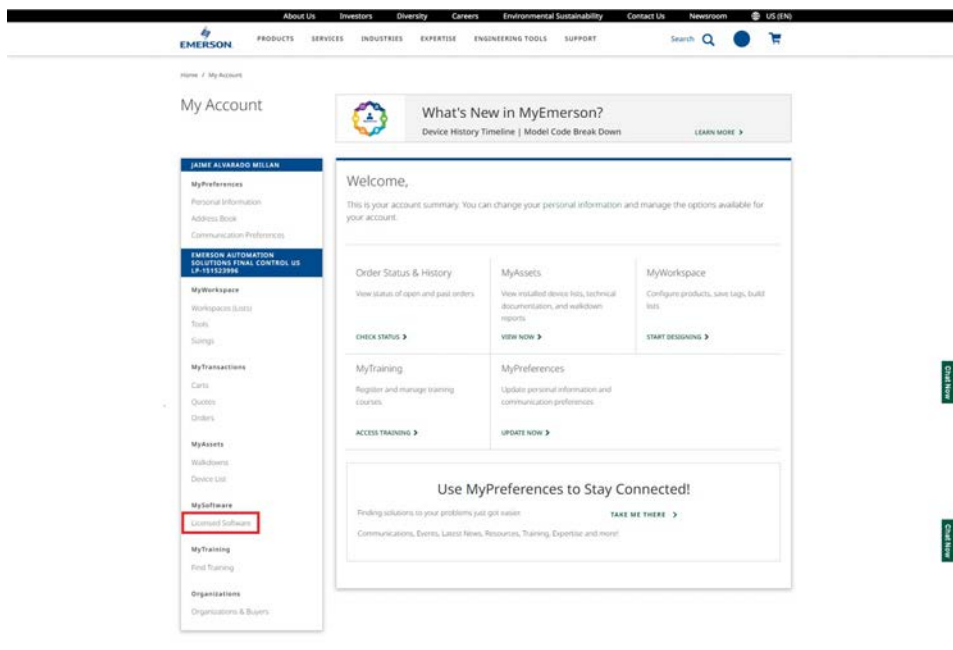
- Place a purchase order for the Valve Health application through your Emerson sales office.
- Create an account on [MyEmerson](#).
- Request the Plantweb Insight applications to be loaded to your MyEmerson account through your Emerson sales office.

Step 1 Download Plantweb Insight and the Valve Health Applications

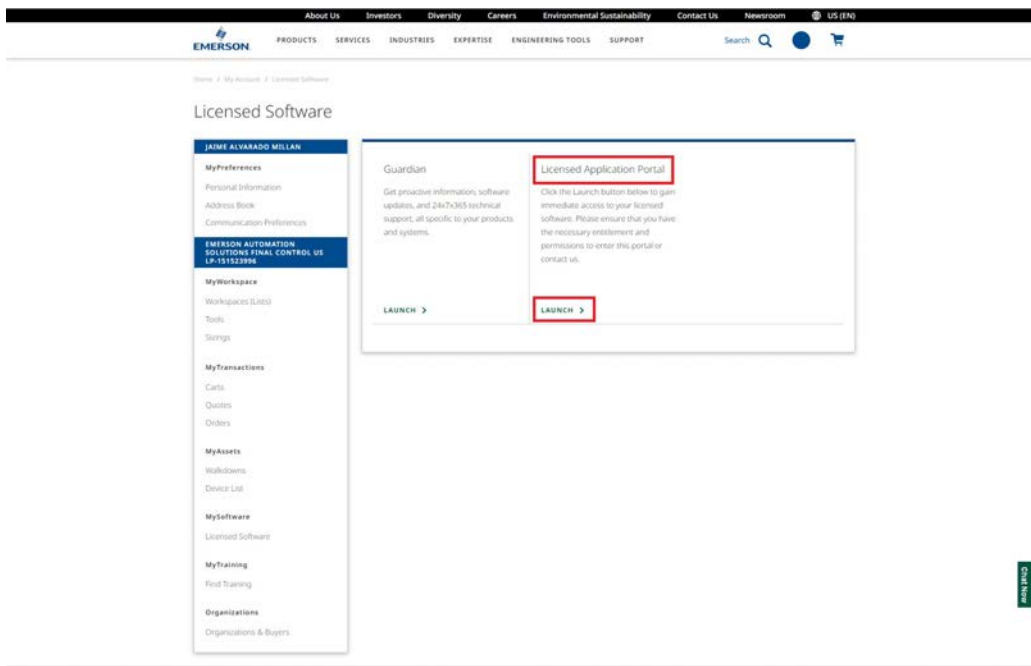
Sign into your [MyEmerson](#) account.



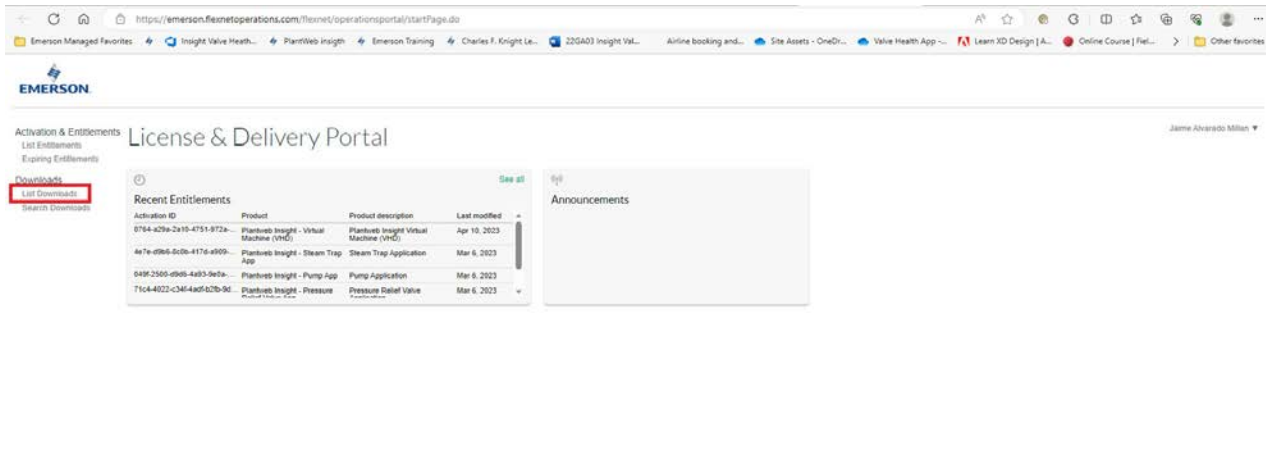
Click on the Licensed Software in the left hand column.



Click on the Licensed Application Portal , then Launch.



Click on the List Downloads.



Click on Pervasive Sensing.



Activation & Entitlements
List Entitlements
Expiring Entitlements

Downloads
List Downloads
Search Downloads

Downloads

Pervasive Sensing

Download the following applications according to your operating system:

- Plantweb Insight Framework (most recent version)
 1. Plantweb Insight - Virtual Machine (for PC's using VMware)
OR
 2. Plantweb Insight Virtual Machine (VHD) (for PC's using Microsoft Hyper-V)
- Valve Health application (most recent version)

Note

The Plantweb Insight Framework download process will follow the same steps as those of the Valve Health application.

EMERSON

Activation & Entitlements
List Entitlements
Expiring Entitlements

Downloads
List Downloads
Search Downloads

Download Packages

The Download Packages page lists new and archived versions of downloadable components along with helpful details of the download.

James Alvarado Milan

Pervasive Sensing

New Versions Previous Versions

Version	Description	Date Available	Log Details
3.0.0	Plantweb Insight - Platform Upgrade	Feb 20, 2023	Download Log
2.5.0	Steam Trap App	Feb 20, 2023	Download Log
2.4.0	Pump App	Feb 20, 2023	Download Log
2.5.0	Pressure Relief Valve App	Feb 20, 2023	Download Log
2.3.0	Air Cooled Heat Exchanger App	Feb 20, 2023	Download Log
3.1.0	Battery Management App	Feb 20, 2023	Download Log
2.0.0	Connected Lighting App	Feb 20, 2023	Download Log
2.3.0	Cooling Towers App	Feb 20, 2023	Download Log
2.3.0	Heat Exchanger App	Feb 20, 2023	Download Log
1.2.0	In-line Corrosion App	Feb 20, 2023	Download Log
1.5.1	Non-Intrusive Corrosion App	Feb 20, 2023	Download Log
3.1.0	Network Management App	Feb 20, 2023	Download Log
2.3.0	Pressure Gauge App	Feb 20, 2023	Download Log
3.1.0	Plantweb Insight - Visual Machine	Oct 11, 2023	Download Log
3.1.0	Plantweb Insight - Visual Machine (VHD)	Oct 11, 2023	Download Log
1.0.1	Valve Health App	Oct 11, 2023	Download Log

Click on the download arrow next to the file name(s) to download (Ex: Valve Health application below):

EMERSON

Activation & Entitlements
List Entitlements
Expiring Entitlements

Downloads
List Downloads
Search Downloads

Downloads

Valve_Health_App 1.0.1

Files 1 File(s)

File Description	File Size	File Added	File Name
Valve Health Application	533.27MB	Oct 11, 2023	Valve-Health-App-v1.0.1_App1M.gz_88C1D

The downloaded file(s) will appear in the downloads of the browser window.

Note

Place the downloaded file(s) in a secure location on the computer for access at a later step.



Step 2 Install the Plantweb Insight Framework

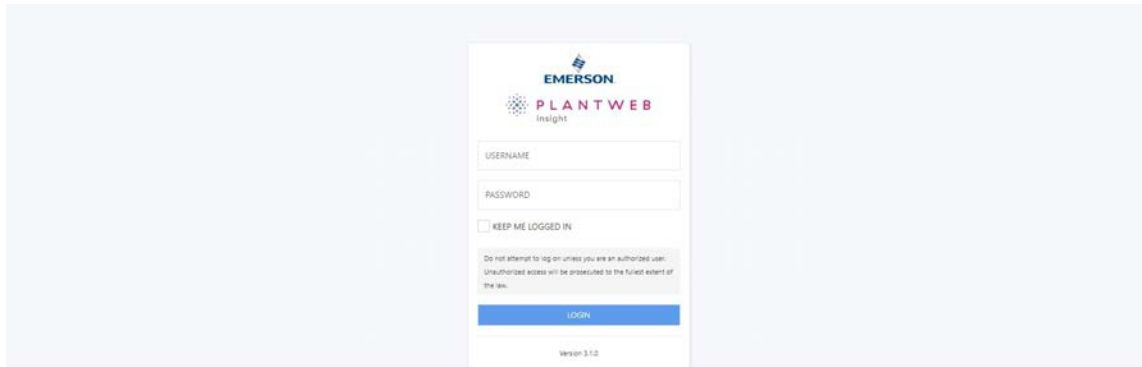
Install the PWI Framework following the instructions in the Emerson [Plantweb Insight Instruction Manual](#) 00809-0100-4541.

Note

If the Plantweb Insight Framework is already installed, skip to Step 3.

Step 3 Launch the Plantweb Insight Framework

Open Plantweb Insight and log in with the username and password for the administrator.



First time Plantweb Insight users, log in with the following credentials:

- Username: admin@emerson.com
- Password: Default.1234

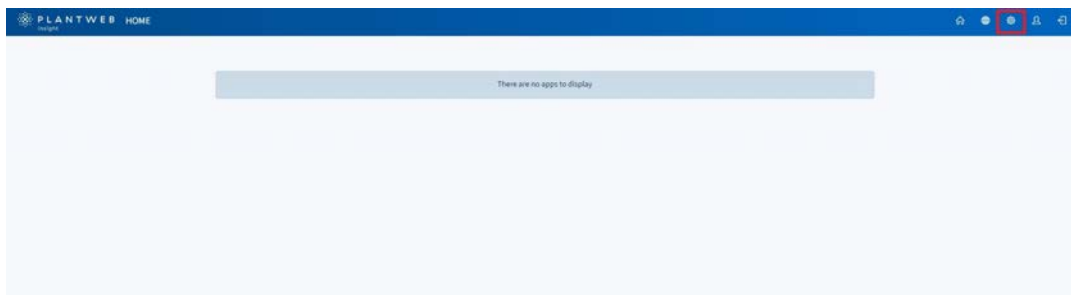
To change the password:

Note

Save this password in a secure location for future reference. There is no way to resend a forgotten password. A software installation will need to be redone.

Select the gear icon at the top right of the screen.

User → Users (Manage Users) → Change Password



The new password should have the following parameters:

- Minimum length: 12 characters
- Minimum lowercase: 1 character
- Minimum uppercase: 1 character
- Minimum numbers: 1 character

Save the new password, leave the system, and then log in again.

To change the password (if necessary):

User → Users (Manage Users) → Login and Password Options

Save the changes and then log in again.

Step 4

Install the Valve Health Application

Open Plantweb Insight and log in with the username and password for the administrator.

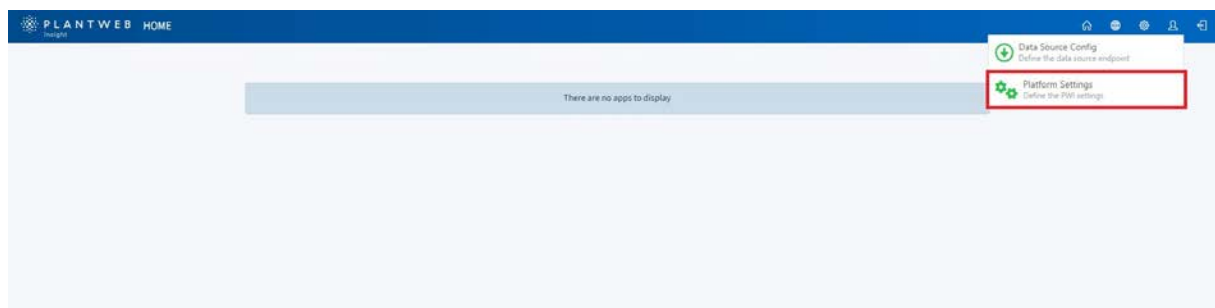
Note

Only “administrator” credentials can complete the following steps and configure system settings.

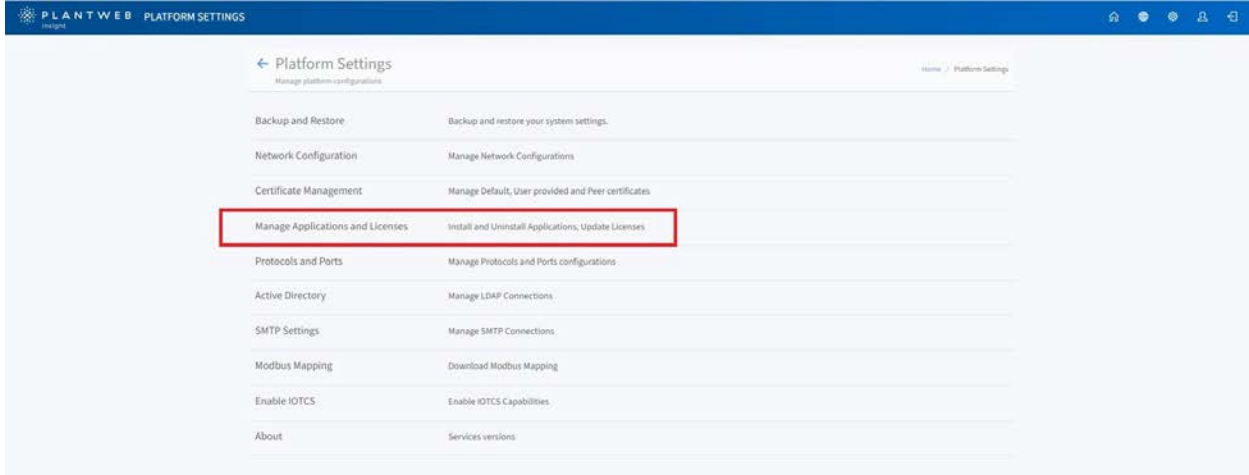
“User” credentials can not access these settings.

In addition to this document, you will need the [Plantweb Insight Instruction Manual](#), document number 00809-0100-4541.

Click on the Gear icon → Platform Settings



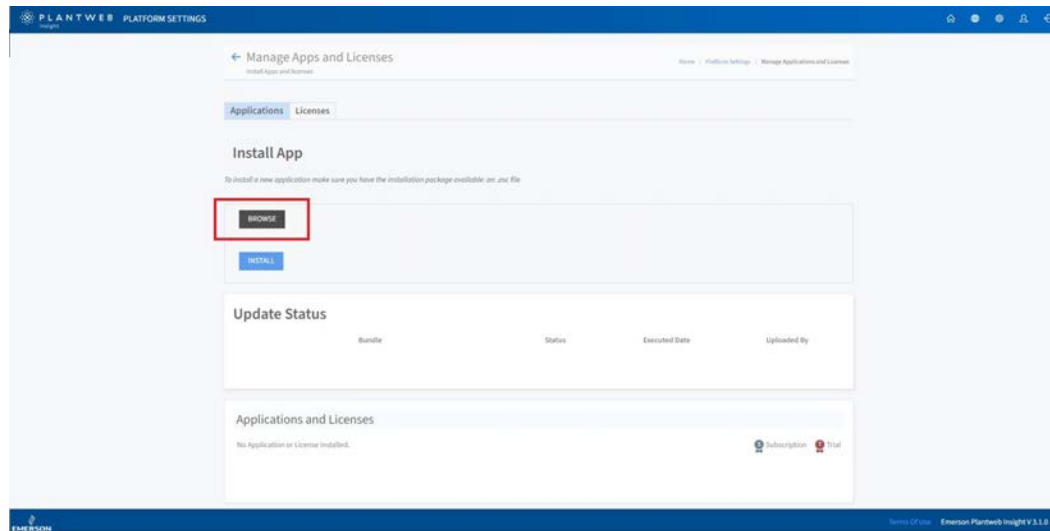
Click on Manage Applications and Licenses



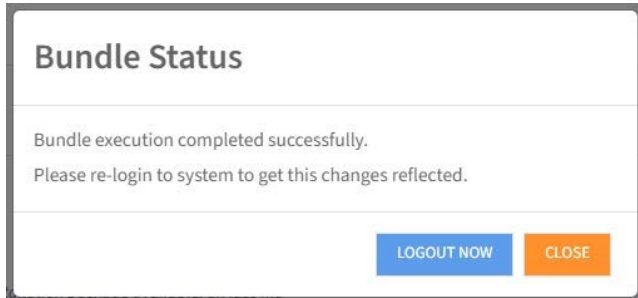
In the Manage Applications and Licenses screen, select:

Applications → Browse

Find and open the Valve Health application file previously downloaded in Step 1 (.asc) → Install



A successful installation message is shown below:



Select Logout Now and log back in.

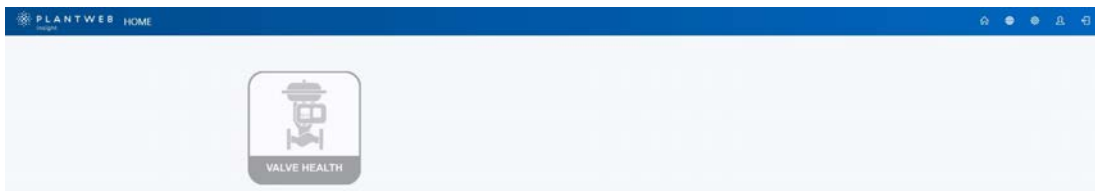
Step 5 Request the Licensing File

Open Plantweb Insight Framework

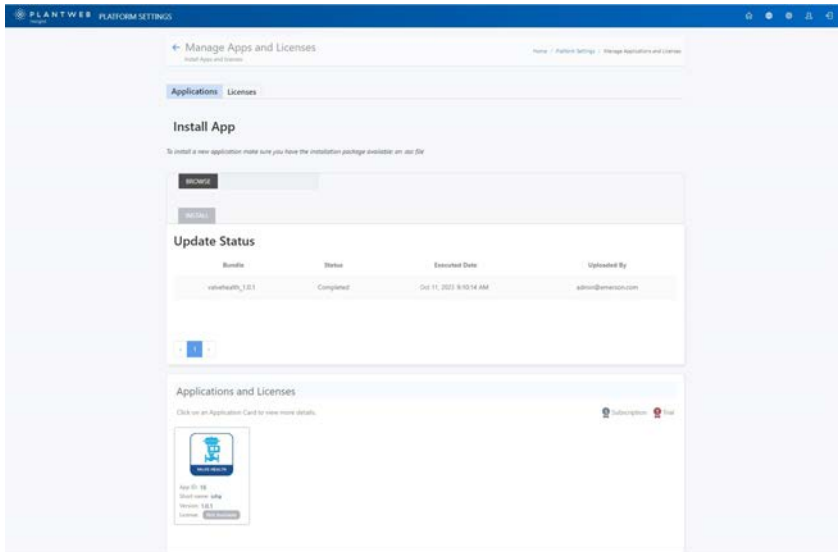
Note

The icon of the Valve Health application is gray until the Licensing file is installed.

Click on the Platform Settings → Platform Settings → Manage Applications and Licenses

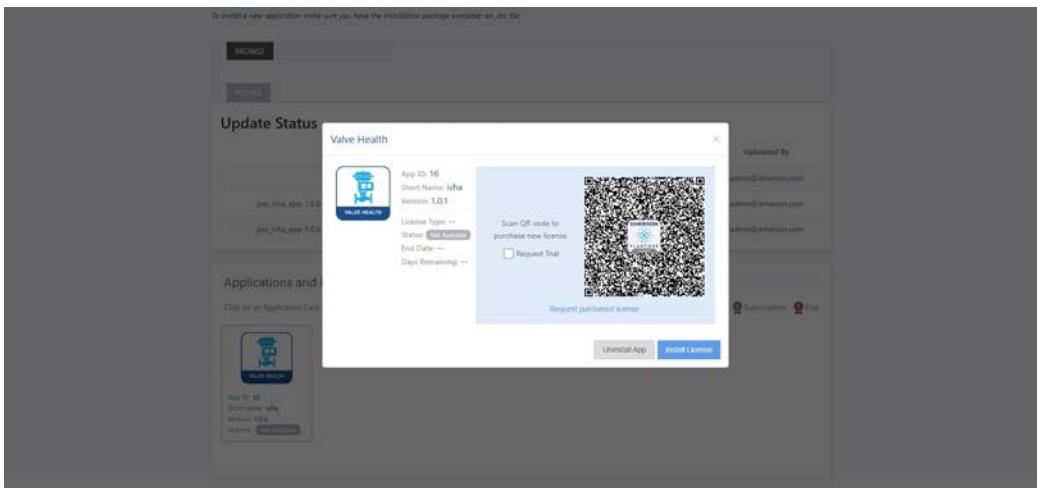


Click on the Valve Health application icon at the bottom.

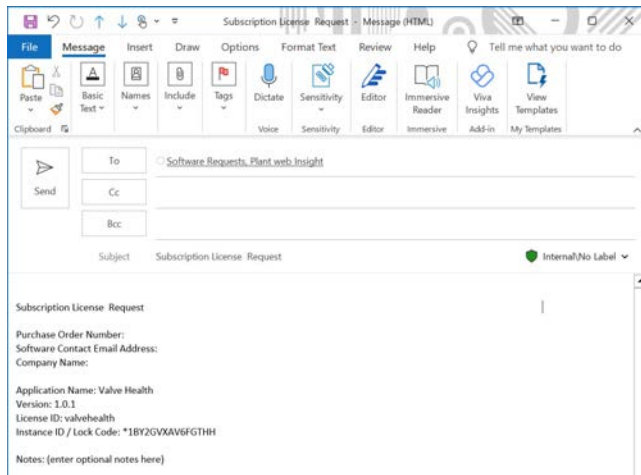


In the pop-up, there are two licensing options:

- **Option 1:** Scan the QR code to send an email to request a purchased license.
- **Option 2:** Click the check box to **Request Trial** license, and scan the QR code to send an email, requesting a 90 day trial license.



An auto-generated email will be created for the license request.



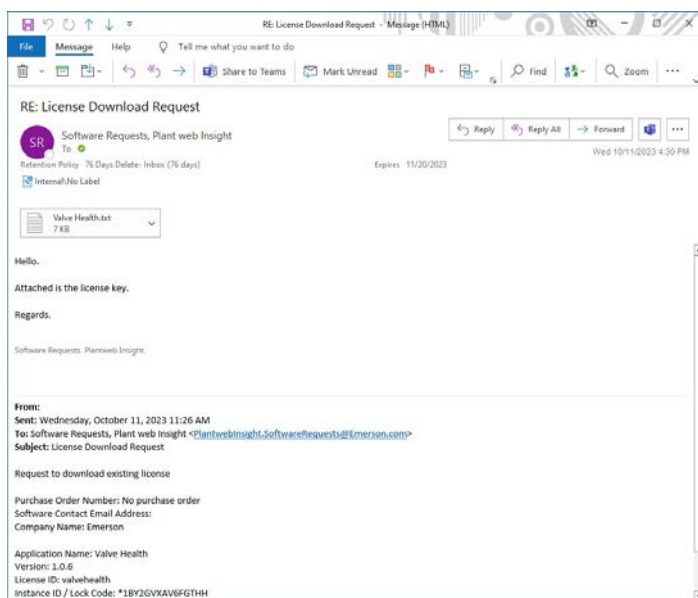
Fill in the information required in the email body:

- PO Number
- Software Contact Email Address
- Company Name

After the request has been submitted and processed, the user will receive a (.txt) license file.

Note

Save this (.txt) file in the same location as the Valve Health application downloaded file to make sure they are secure and together.

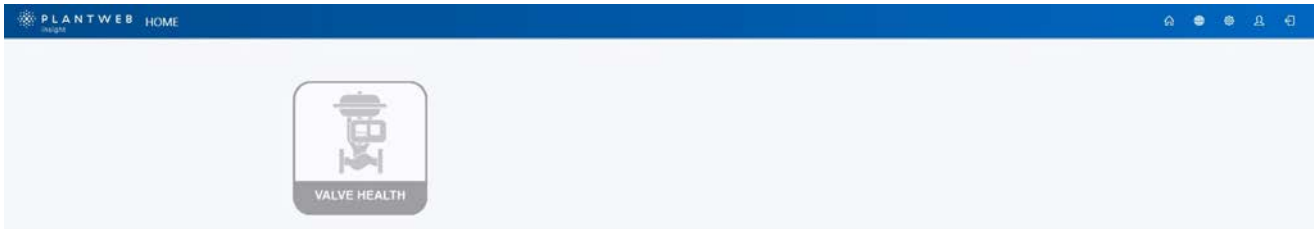


Step 6 Install the Licensing File

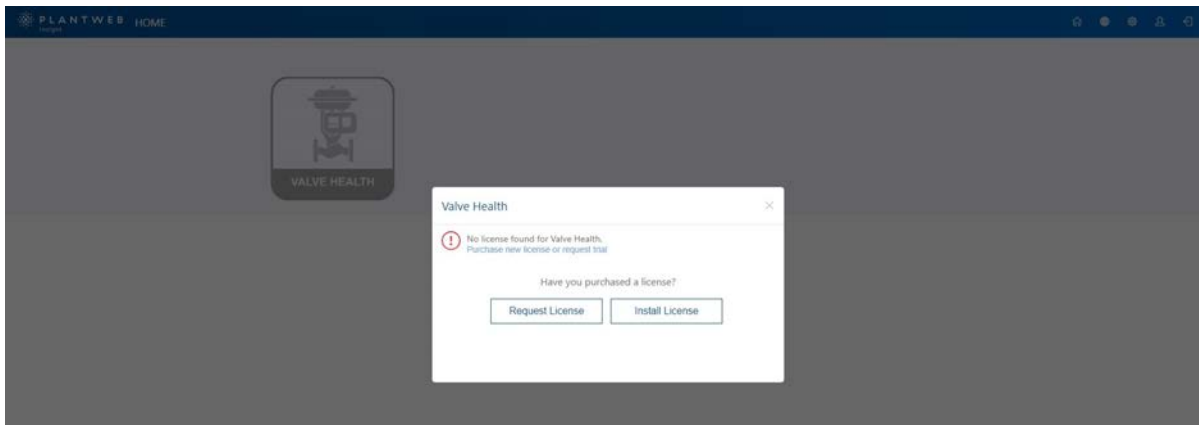
Open Plantweb Insight Framework.

Note

The icon of the Valve Health application is gray until the licensing file is installed.

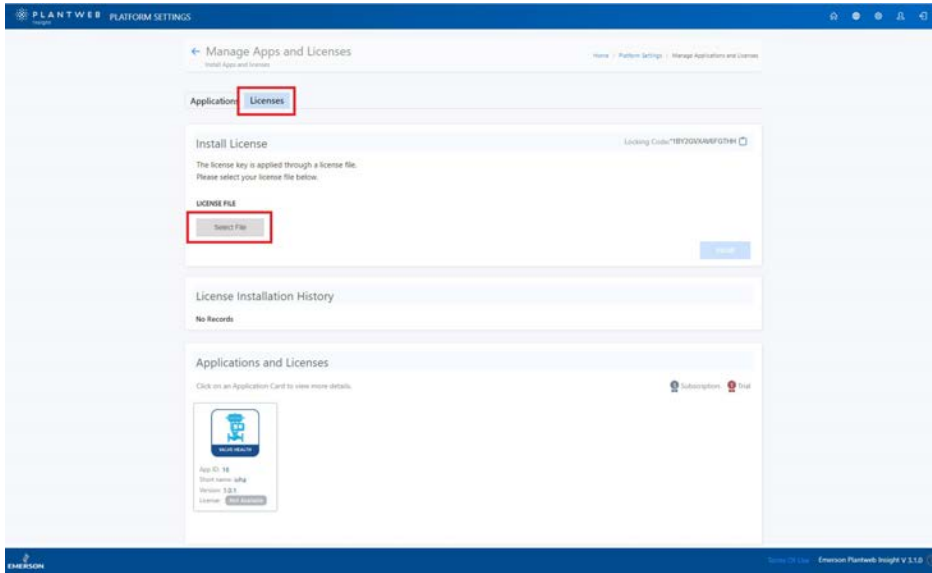


Click on the icon of the Valve Health Application.

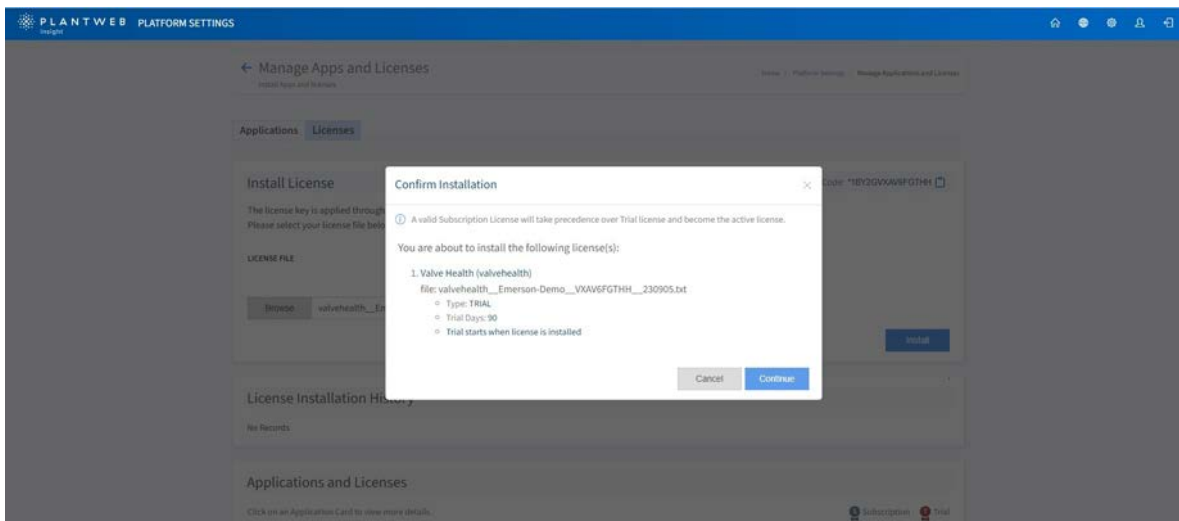


Click Install License → Licenses (tab).

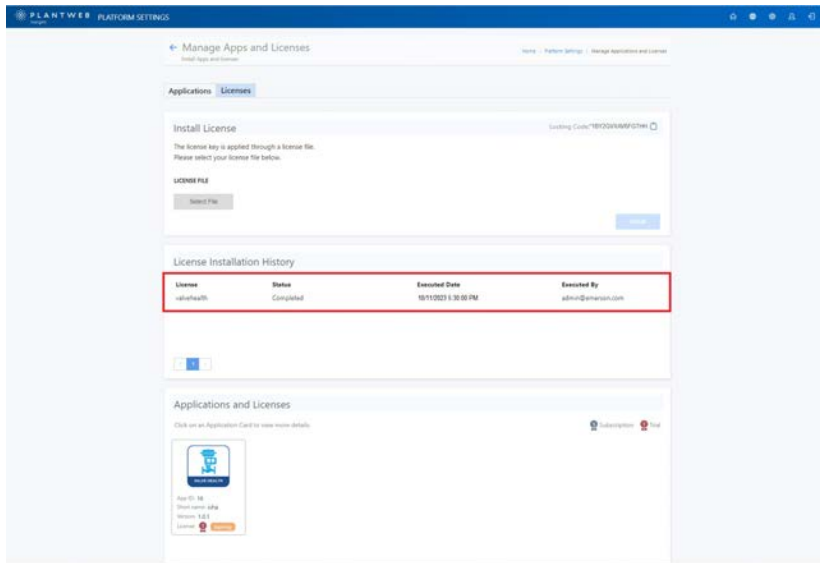
Click Select File and locate the licensing file (.txt) previously downloaded from the email. Click Install.



Continue with the Installation → Agree → Close. When finished, log out and log in again.

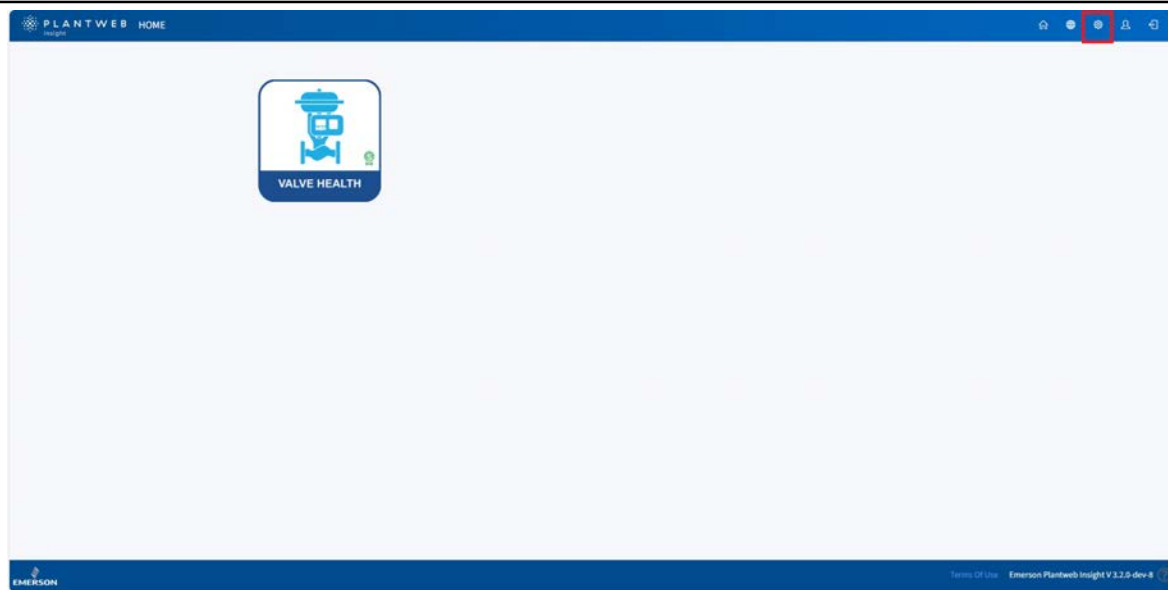


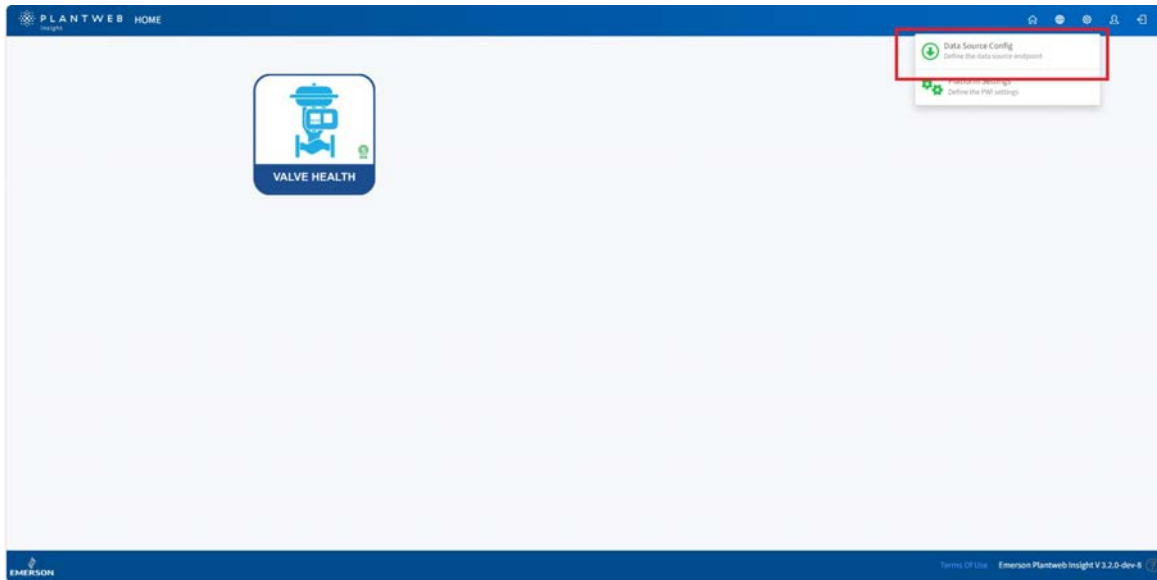
The licensing file should now appear in the Manage Applications and Licenses screen, as seen below.



Step 7 Configure the Data Source Connections

Refer to the Emerson [Plantweb Insight Instruction Manual](#) 00809-0100-4541.



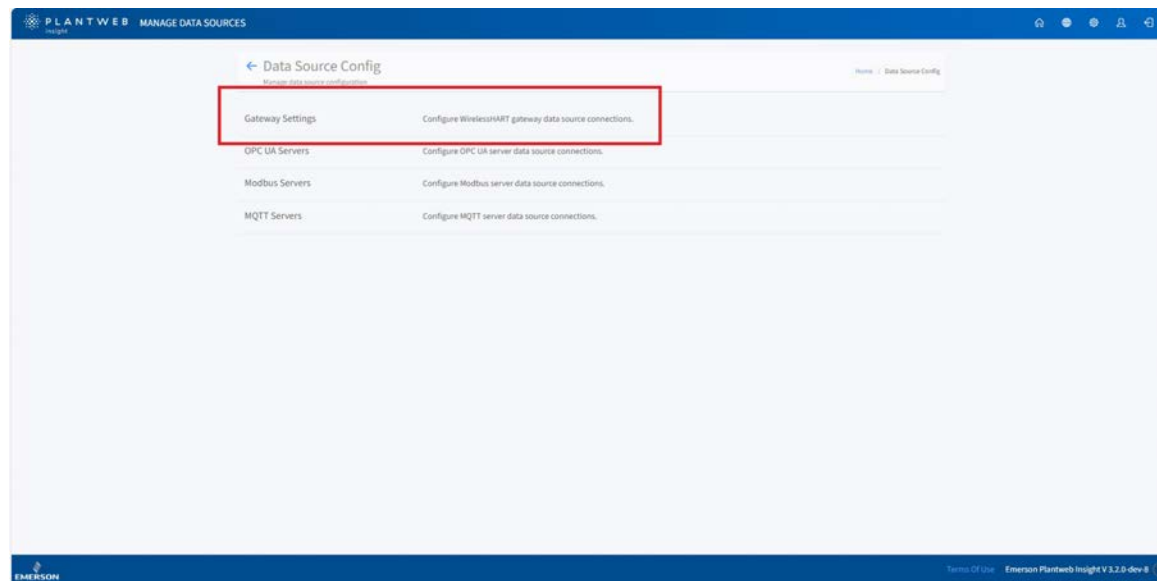


Gateway Connections

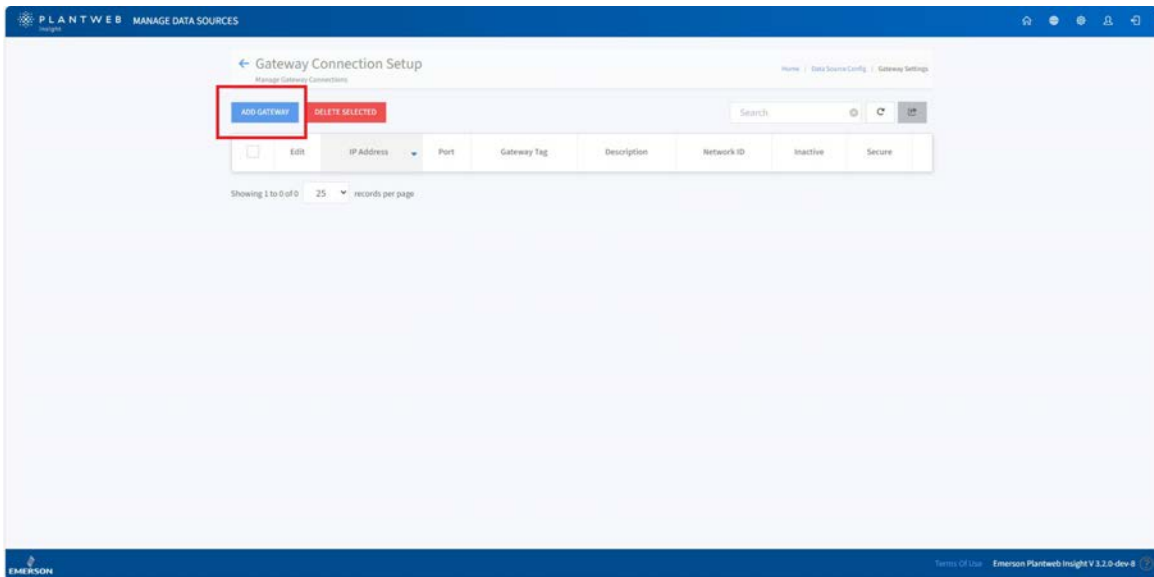
Add Gateway

Procedure:

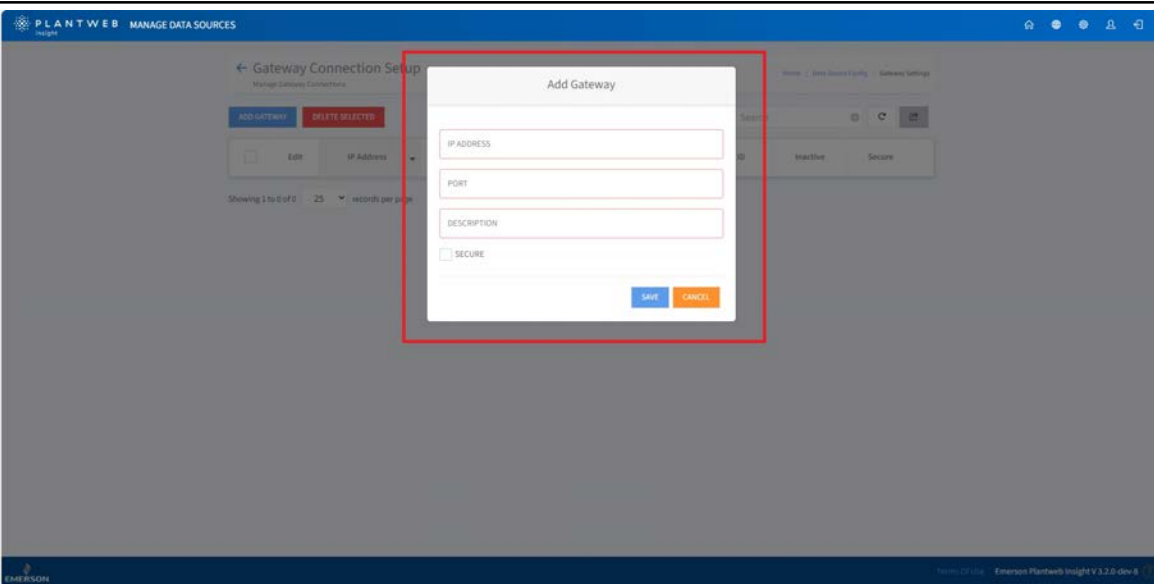
1. Click on Settings (gear icon)
2. Select Data Source Config → Gateway Settings

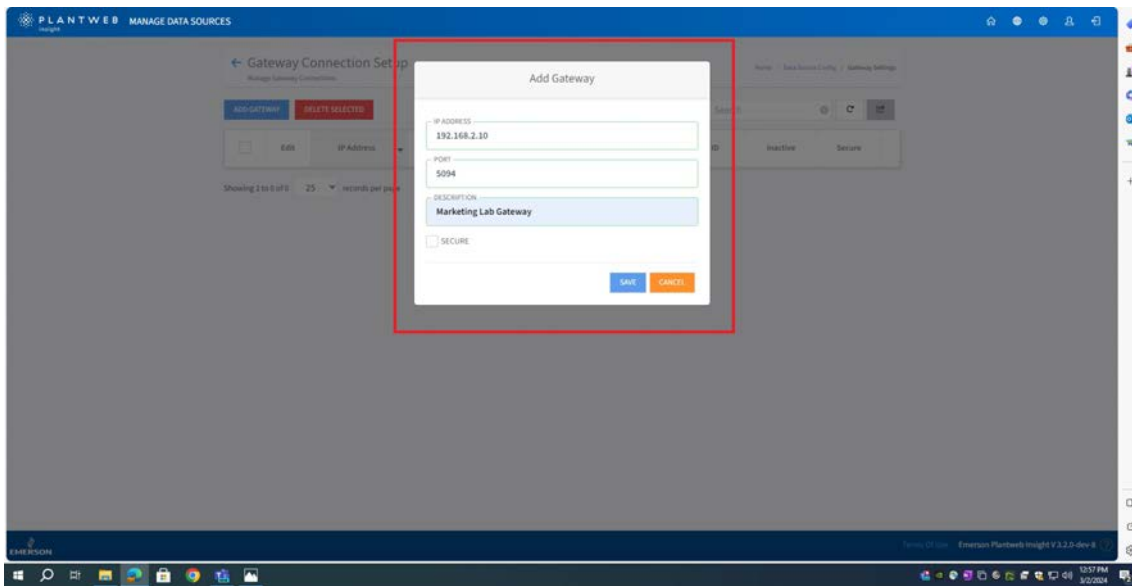


3. Click Add Gateway



4. Enter the IP Address, Port, and Description





Note

HART-IP™ uses port 5094 in the gateway. Ensure both HART-IP TCP and HART-IP UDP are enabled in the gateway and set to 5094. Secure (encrypted) gateway connections require HART-IP port 5095.

5. Click Save

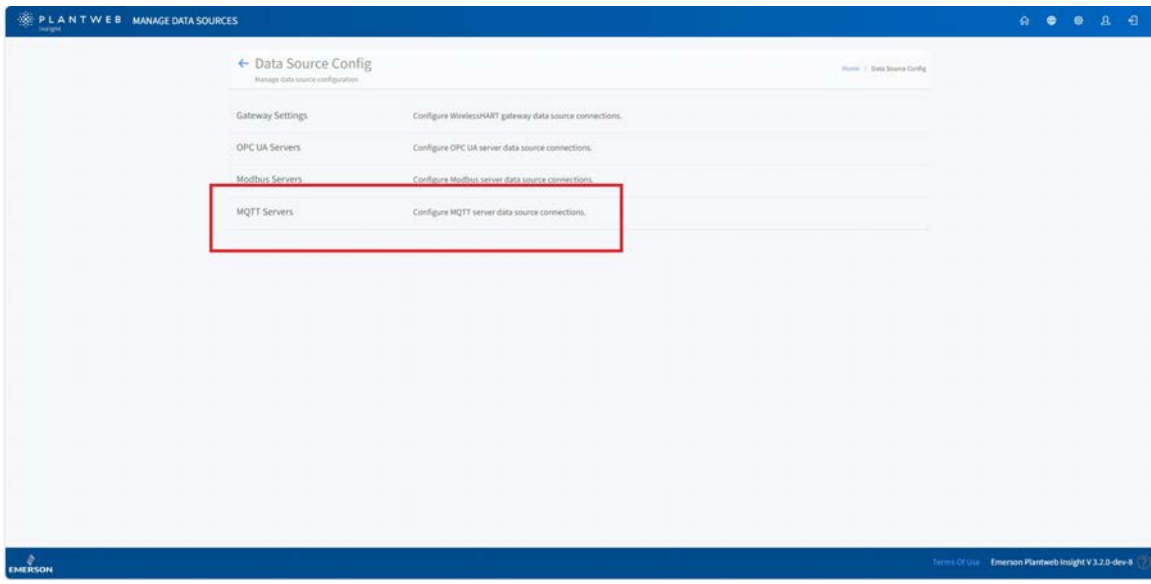
Once Plantweb Insight establishes connection, the Gateway tag and Network ID will populate. Please allow up to 5 minutes for the Gateway to establish a connection.

AMS Device Manager Connections

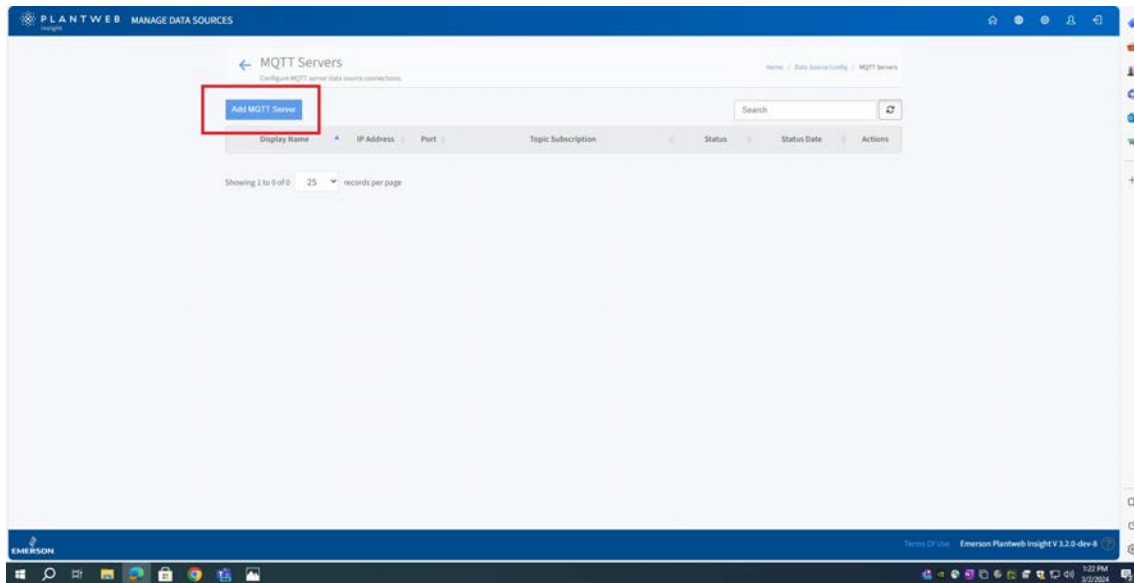
Add MQTT Server

Procedure:

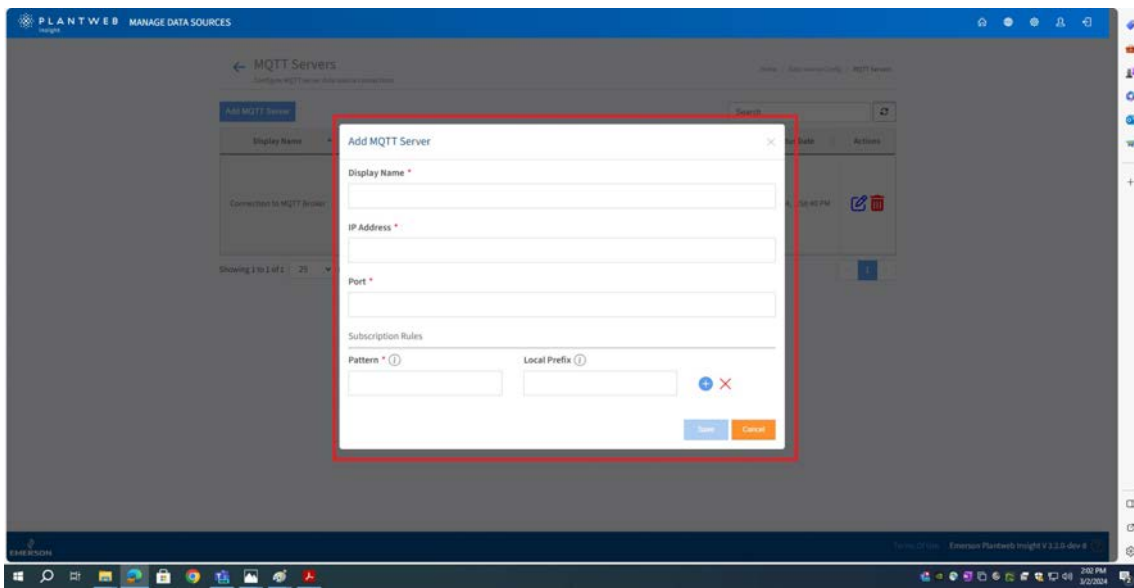
1. Click on Settings (gear icon)
2. Select Data Source Config → MQTT Servers



3. Click Add MQTT Servers



4. Enter the Display name, IP Address, and Port



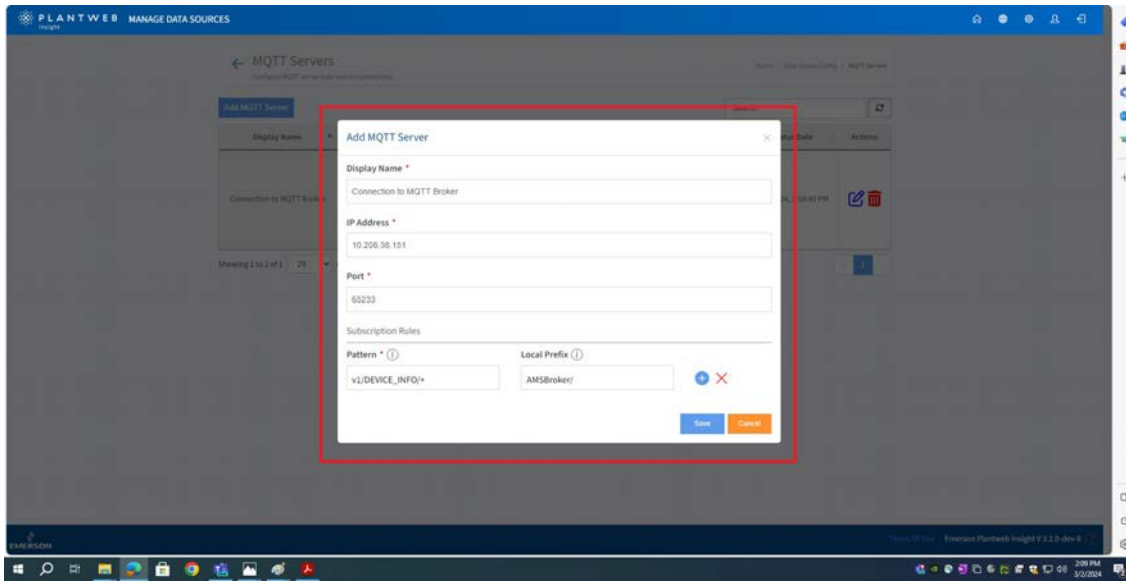
Note

AMS Device Manager by default uses Port 65233.

5. In the Subscription Rules, enter the following Patterns and Local Prefixes exactly as shown below.

Table 1. Communication Specifications

Pattern	Local Prefix
v1/DEVICE_INFO/+	AMSBroker/
v1/DEVICE_ALERT/+	
v1/ValveHealth/time_insensitive_dataset/+	
v1/ValveHealth/time_sensitive_dataset/+	
v1/ValveHealth/units_dataset/+	
v1/ValveHealth/specsheet_dataset/+	
v1/ValveHealth/#	



6. Click Save

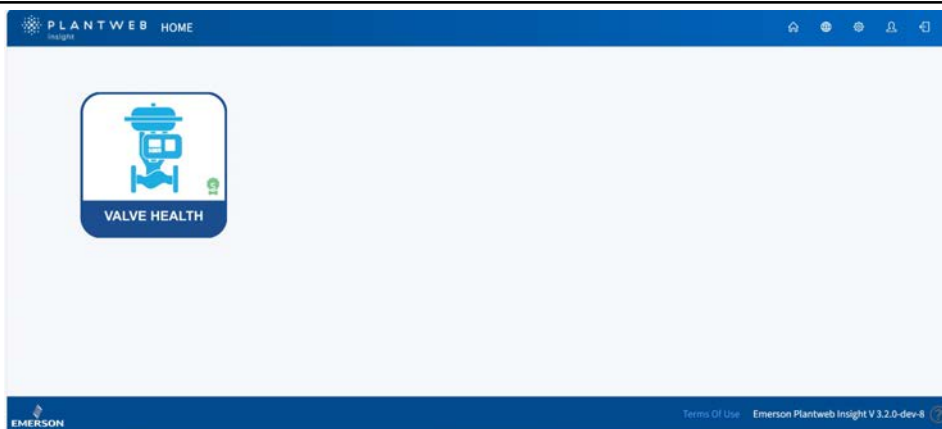
Step 8 Select the Assets for Monitoring in the Valve Health Application

Open Plantweb Insight through the web browser and log in with your username and password, then click the Valve Health application icon.

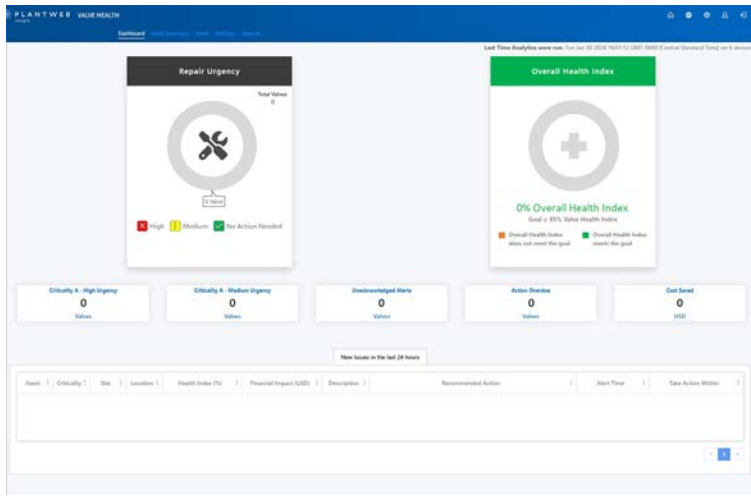
Note

The Valve Health application should now appear blue if the license was installed successfully.

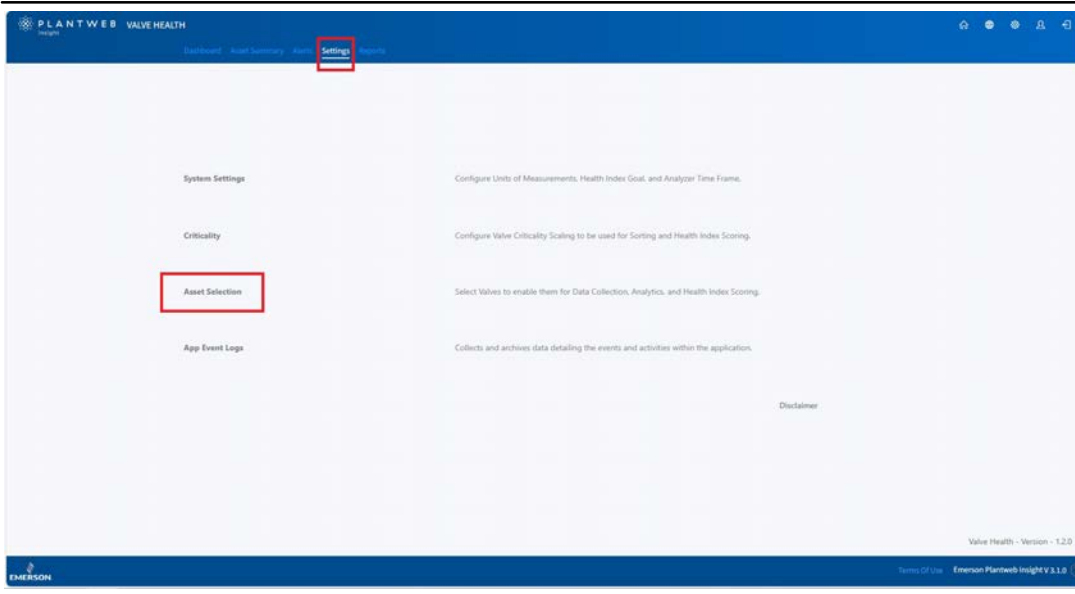
Click on the Valve Health icon



The Dashboard screen will appear.



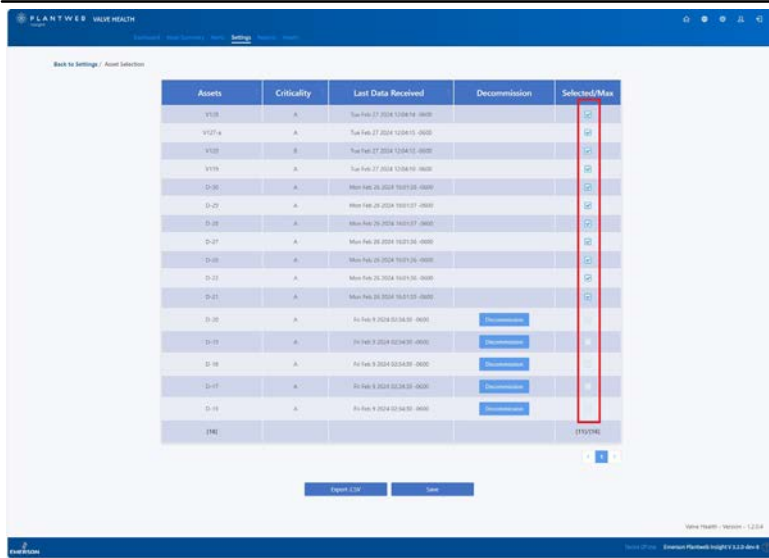
Click on Settings → Asset Selection



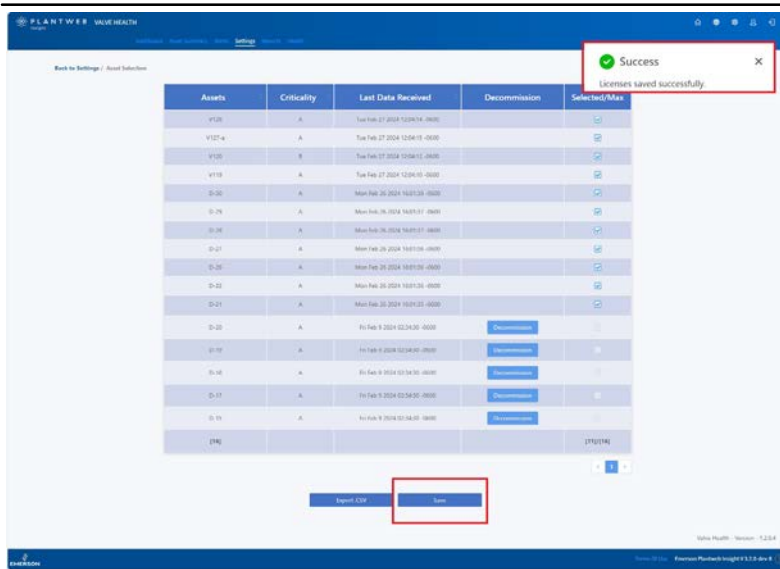
The Asset Selection screen appears.

Identify the connected assets you would like to monitor and select them using the check box. Depending on the purchased license, a maximum number of assets will be selectable. Only the assets selected will be used to gather data and appear on the dashboard and subsequent screens within the application.

An administrator can enter this screen at any time to modify the chosen assets to be monitored.



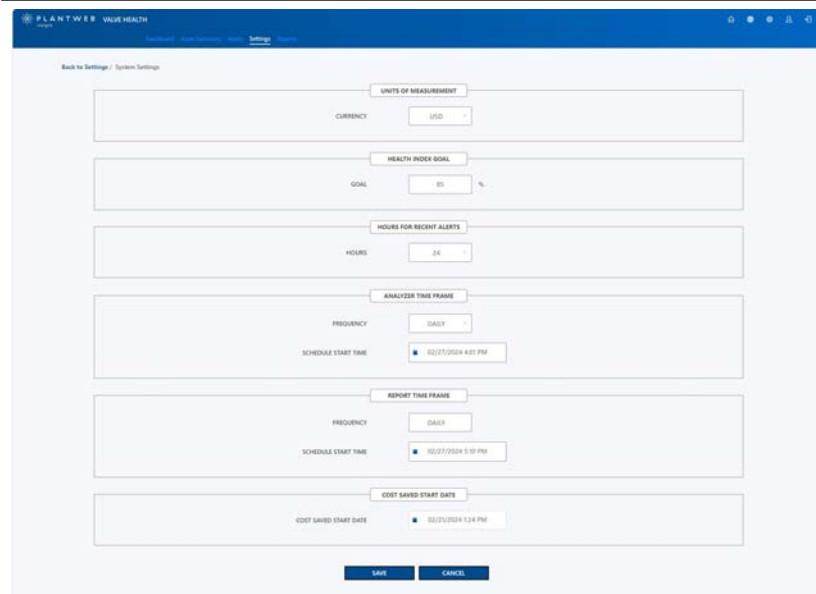
Save the selected assets.



Step 9 Define Application Parameters

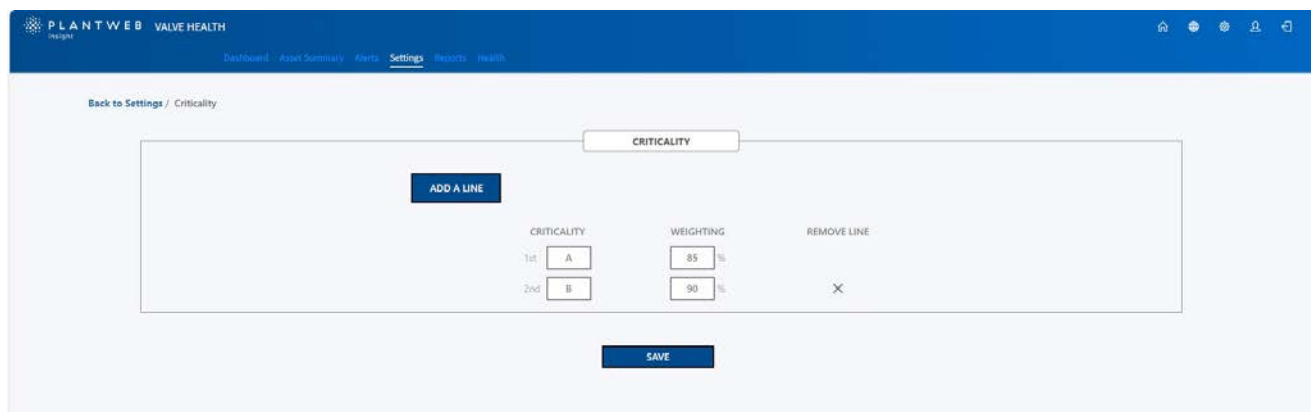
In the top navigation bar in the Valve Health application, click on Settings.

From the Settings screen, click System Settings to configure Units of Measure, Health Index Goal, Hours for Recent Alerts, and Analyzer Time Frame.



From the Settings screen, click **Critically** to configure options for asset critically. Once each asset is assigned a critically according to the standards established on this screen, the analytics will use this weighting to calculate the health index.

A lower weighting for more critical valves will lower the health index of that valve in the event of an alert, and therefore display more urgency.



Step 10 Configure the Selected Assets

Note

Log in as administrator to configure assets.

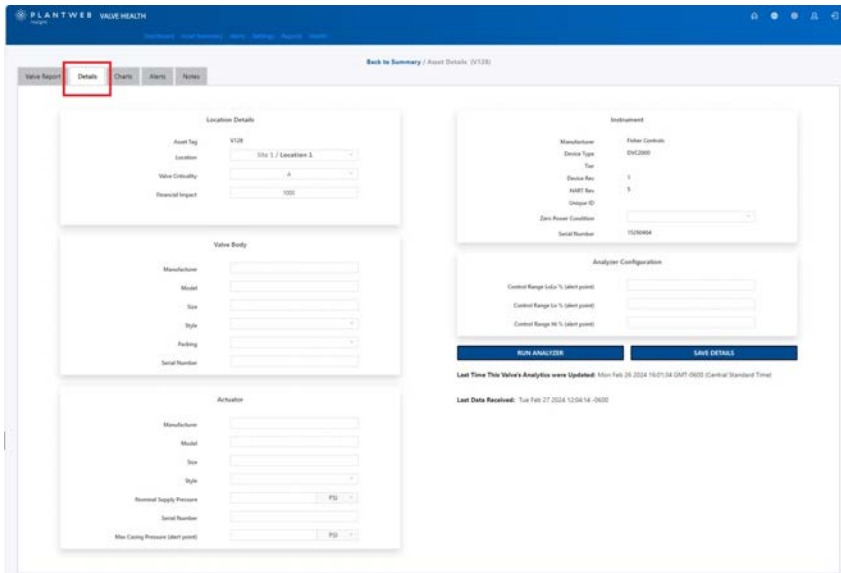
On the Asset Summary screen, click on the Asset.

Asset	Criticality	Location	Financial Impact (USD)	Repair Urgency	Health Index (%)	Status Duration
V128	A	Unknown Location	1000	Yellow	65	4 days
V127-a	A	Site 1	1000	Yellow	65	2 days
V120	B	Site 1	1000	Yellow	72	2 days
V119	A	Site 1	3000	Red	54	2 days
V020	A	Site 1 / Location 1	1500	Green	100	2 days
V002	A	Site 1 / Location 2	1500	Green	100	2 days
D-30	A	Site 1 / Location 2	1500	Green	100	6 days
D-29	A	Site 1 / Location 3	1500	Green	100	6 days
D-28	A	Site 2	1500	Green	100	6 days
D-27	A	Site 2 / Location 1	1500	Green	100	6 days
D-26	A	Site 2 / Location 2	1500	Green	100	6 days
D-22	A	Site 2 / Location 2	1500	Green	100	6 days
D-21	A	Site 2 / Location 3	1500	Green	100	6 days

Click the Details tab. Configure the asset per the valve's specifications. Important parameters that are used in the analytics include:

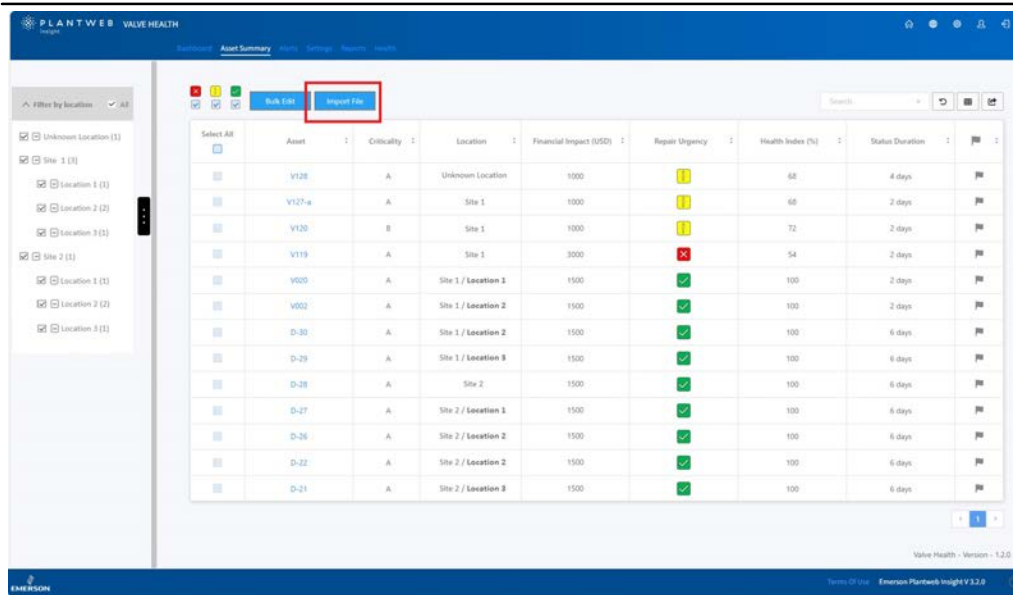
- Valve Criticality
- Valve Body: Style and Packing
- Actuator: Size, Style, Nominal Supply Pressure, and Max Casing Pressure Alert Point
- Instrument: Zero Power Condition
- Analyzer Configuration: LoLo, Lo, and High Alert Point

→ Save

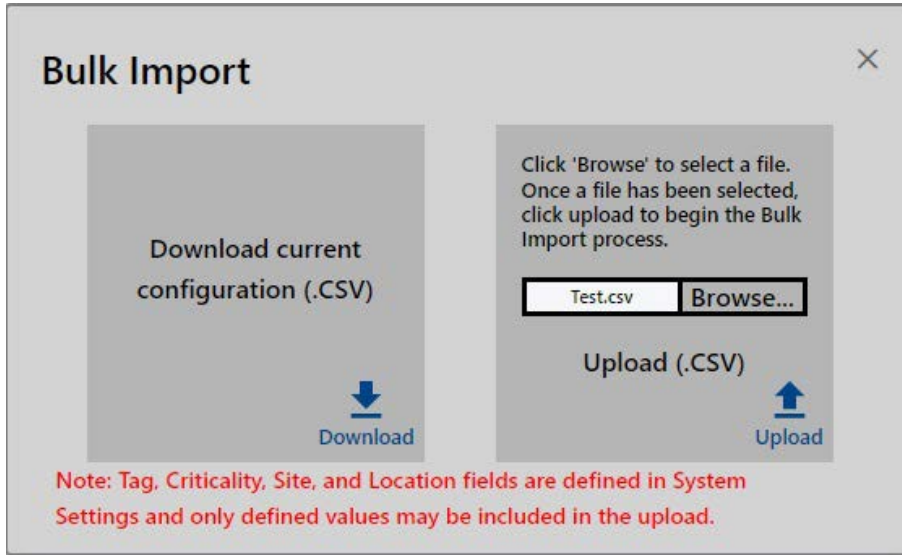


Importing Configuration on a Large Scale

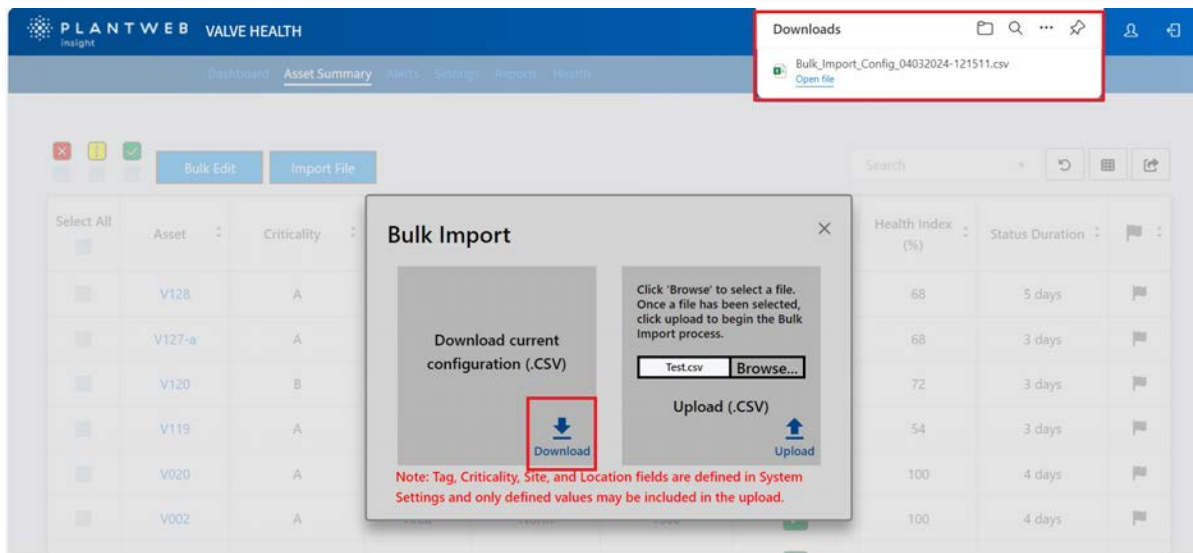
Click Asset Summary → Import File



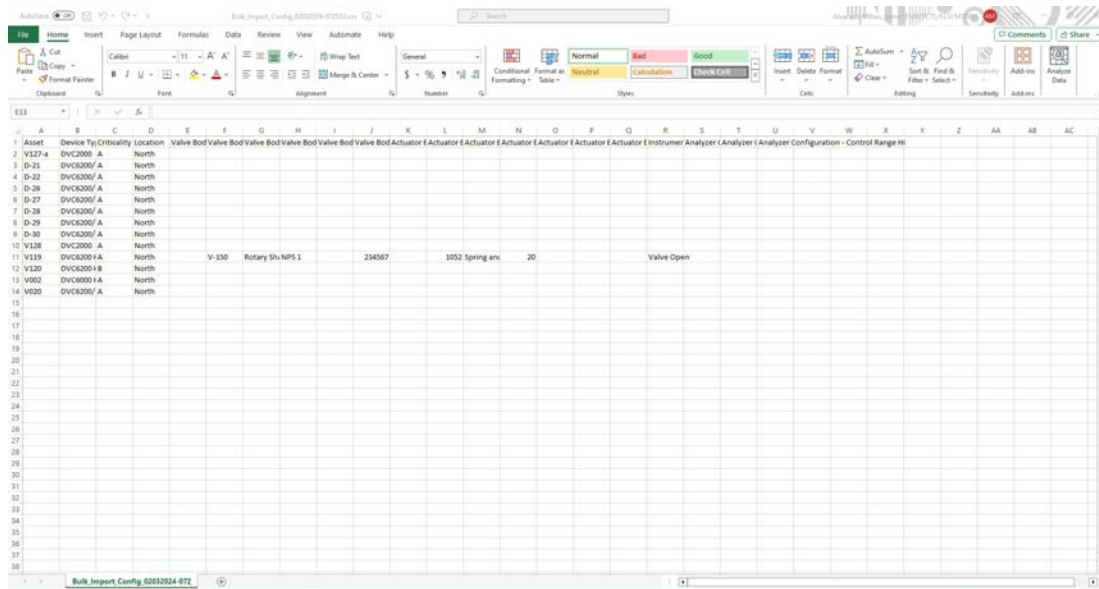
The Bulk Import pop-up appears.



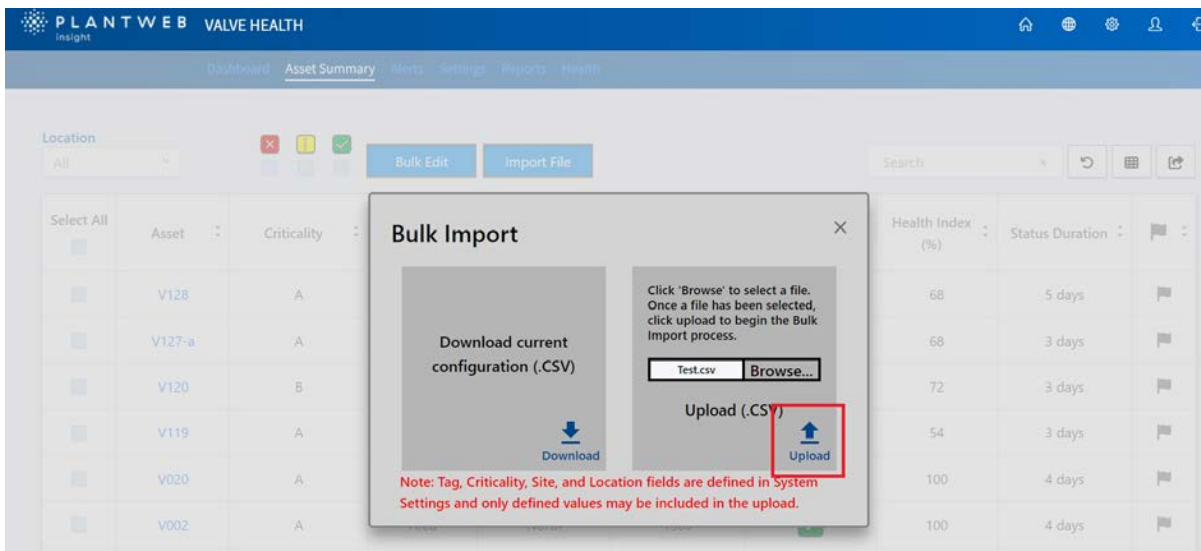
Download the configuration template as a Configure Selected Valve (CSV) file.



Open the CSV file and complete the information for the assets.



When finished with the CSV file, open the Bulk Import pop-up and Upload a CSV File.



Note

The Repair Urgency statuses, Overall Health Index, and recommendations presented in the Valve Health application consider only what is known to Emerson relative to a limited collection of risk factors with no consideration of the processes under control, the application/configuration of the system in which a valve operates, or the actual actions taken locally to mitigate the identified risks. Valve health can be influenced by a variety of factors, and no product or software can guarantee full and continuous operability or performance. The Valve Health application is expected to assist users in monitoring and maintaining the health and performance of its valves. However, it is only a portion of an overall strategy for monitoring and maintaining the health and performance of your valves, and Emerson does not warrant that the Valve Health application or its use will protect your valves from experiencing health or performance degradation.

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