

Atrius Facilities User Guide

Connecting People with
Intelligent Building Solutions

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CHAPTER 1 Atrius® Facilities

Introduction

The topics in this document describe the basic setup for Atrius® Facilities, including:

- Representing a customer account in Atrius' Digital Twin
- Pairing an ECLYPSE Device to Atrius Facilities
- Updating software on an ECLYPSE Device using Atrius Facilities
- Engineering ECLYPSE Devices from anywhere using Atrius Facilities

Customer Accounts

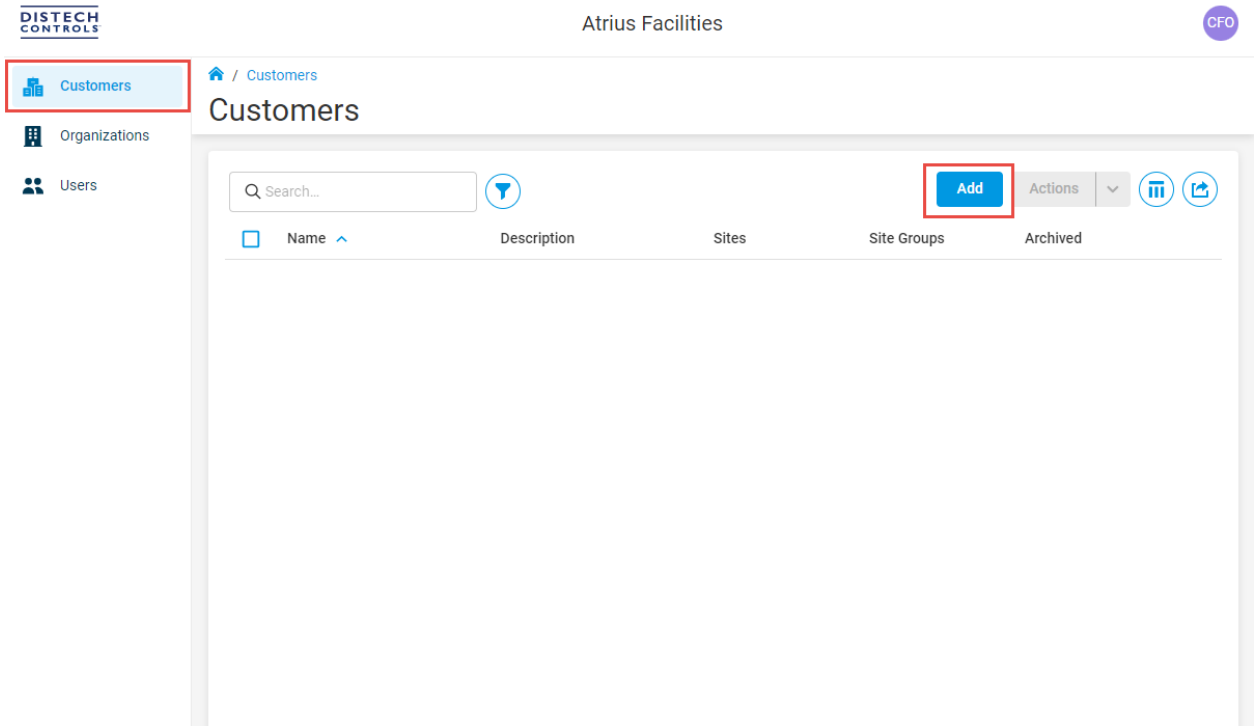
The first step in setting up Atrius Facilities is creating a customer account and any subsequent associated information, such as: sites, buildings, and floors.

This section will describe the steps to complete customer account creation.

Creating a Customer

Create a customer as follows:

1. After logging in to Atrius Facilities, click the **Customers** tab from the left bar and then click the **Add** button, as illustrated below:



2. The **Add Customer** window will appear. Enter the name of the customer and any desired description. Then click **Save**:

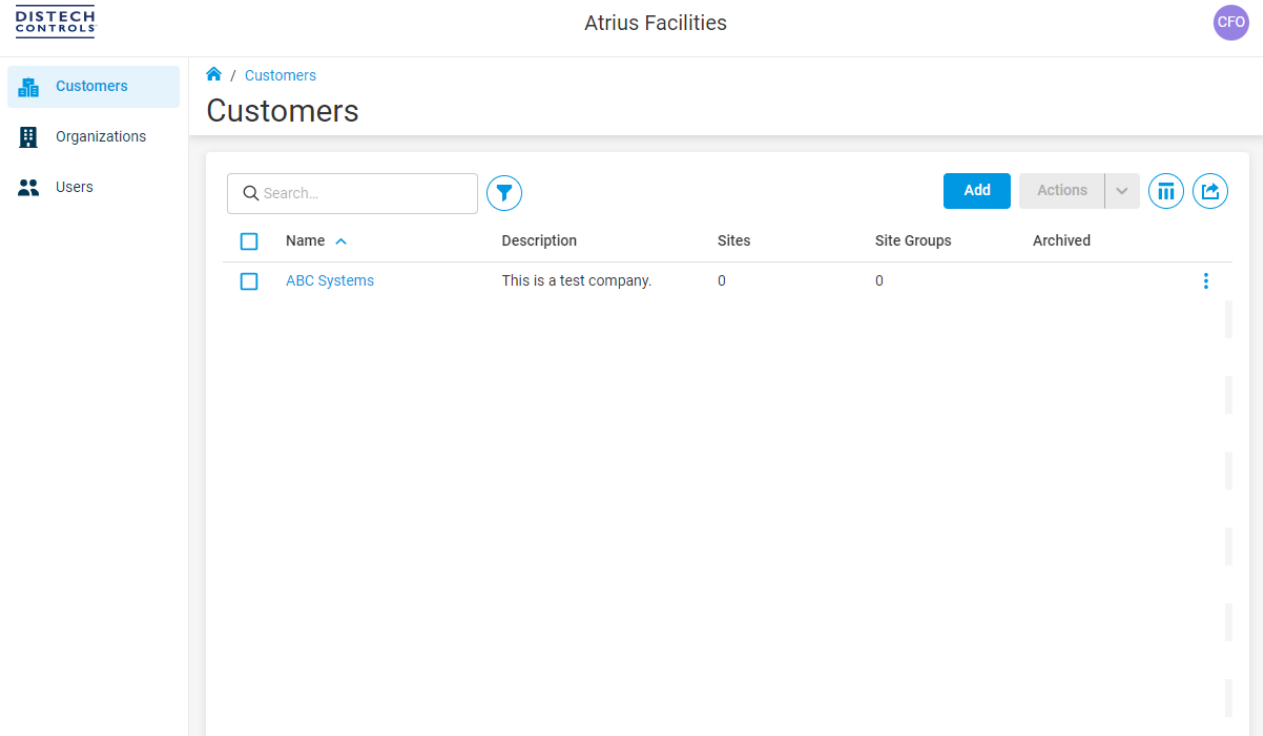
Add Customer ✕

Provide the required data to add a new customer.

Name *

Description

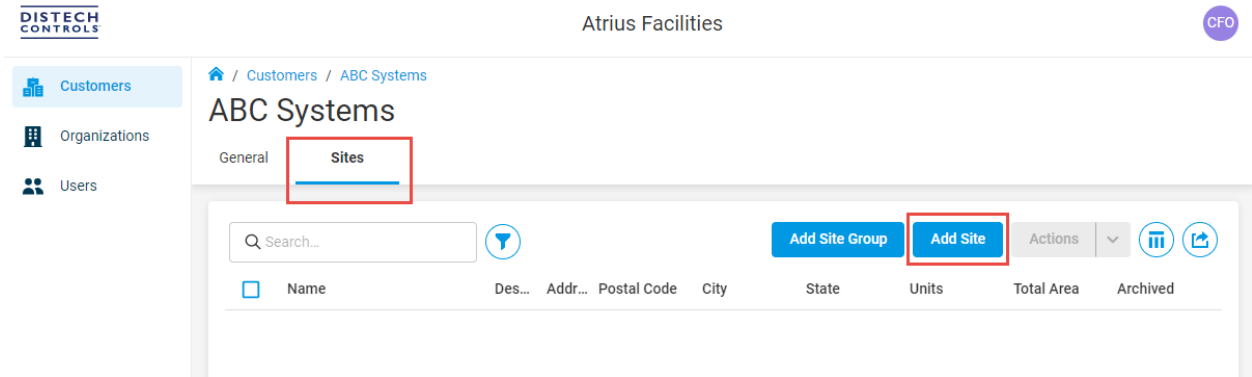
3. The window will disappear, and the customer will appear in the Customers list:



Creating a Site

Create a site as follows:

1. From the Customer list, select the customer (in blue) to which you want to add a site. Then, select the **Site** tab, and then the **Add Site** button:



2. The **Add Site** window will appear. Enter the name of the Site and any desired description. There is also the option to add a site to a **Site Group**, square footage of the site, as well as the address. Once the desired information is populated, click **Save**.

Add Site



Provide the required data to add a new site.

Name *

Headquarters

Description

Site Group

Units

US

Total Area

50000

ft²

Find new address

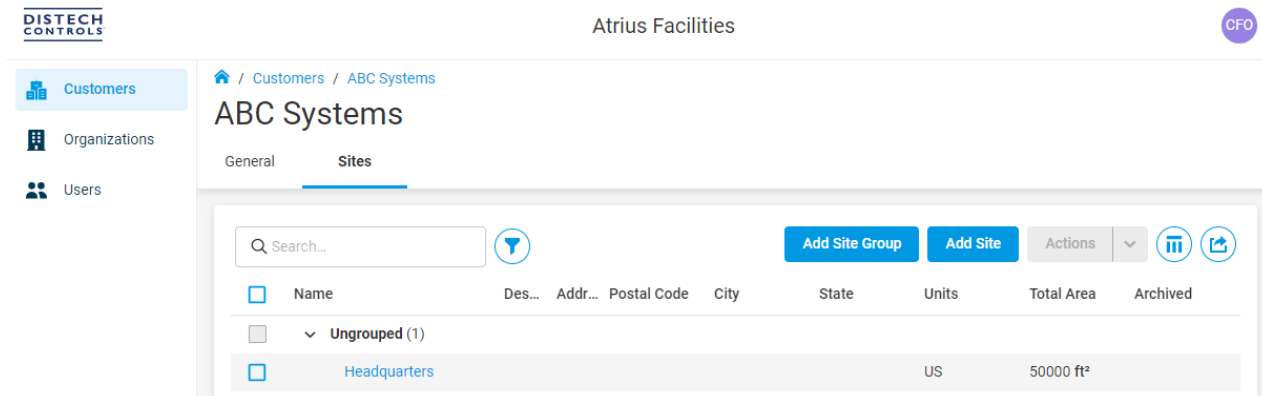
🔍 Start typing your address, e.g. 123 Main...

Manually Enter Address/Coordinates

Cancel

Save

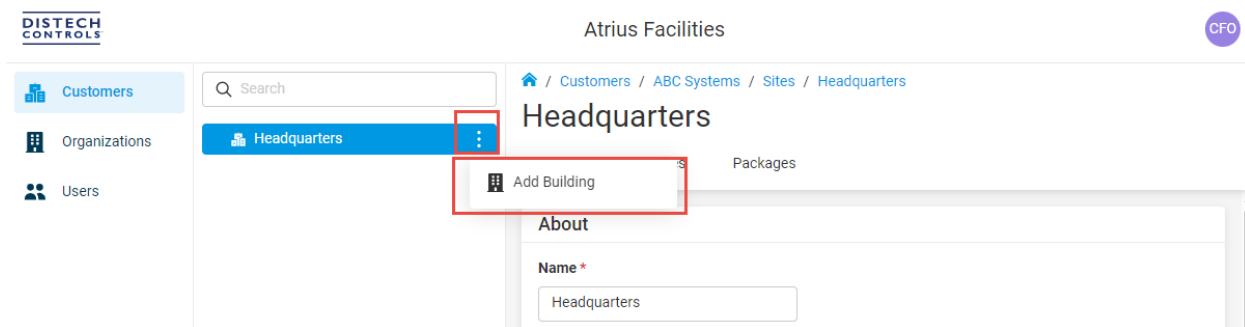
3. The window will disappear, and the site will appear in the **Sites** list:



Creating a Building

Create a building as follows:

1. From the **Sites** list, select the site to which you want to add a building. A new page will open with the details of the site selected. Click the three-dot menu beside the site name, and click **Add Building**:



2. The **Add Building** window will appear. Enter the name of the Building and any desired description. Once the desired information is populated, click **Save**:

Add Building ✕

Provide the required data to add a new building.

Name *

Description

Total Area

Cancel Save

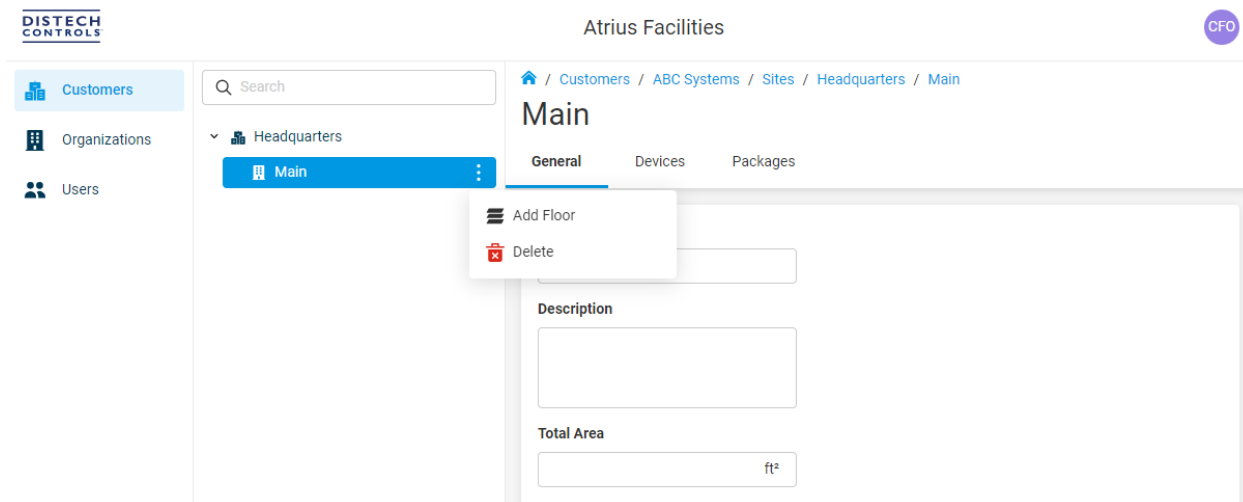
- The window will disappear, and the building will appear in the tree beneath the site with which it is associated:

The screenshot shows the Atrius Facilities application interface. On the left is a navigation sidebar with 'Customers', 'Organizations', and 'Users'. The main area shows a breadcrumb trail: 'Customers / ABC Systems / Sites / Headquarters / Main'. Below this, a tree view shows 'Headquarters' expanded to reveal 'Main'. The 'Main' building details are shown in a modal window, containing the same form as seen in the previous image: 'Name *' (Main), 'Description', and 'Total Area' (ft²). The 'General' tab is selected, and there are 'Devices' and 'Packages' tabs. The top right corner shows the user 'CFO'.

Creating a Floor

Create a floor as follows:

1. From the **Buildings** list, click the three-dot menu beside the site building, and click **Add Floor**:



2. The **Add Floor** window will appear. Enter the name of the floor and the level number. You also have the option of entering a description, floor type and the area. Once the desired information is populated, click **Save**:

Add Floor



Provide the required data to add a new floor.

Name *

Description

Type

Level Number *

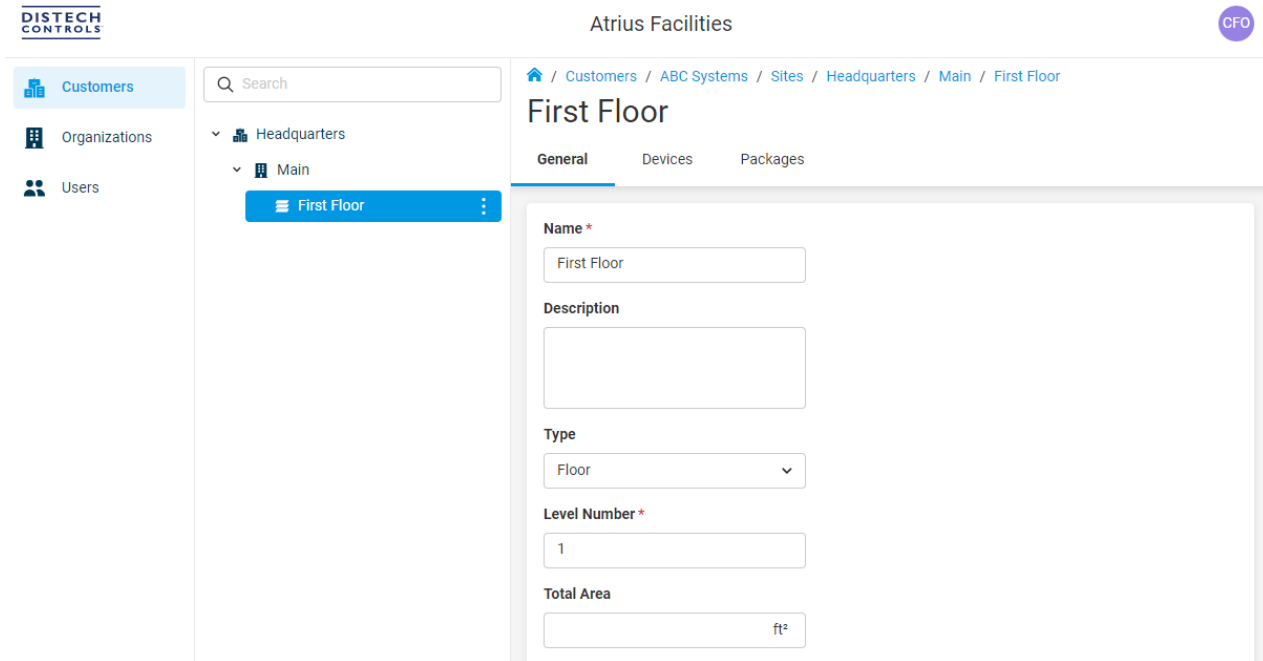
Total Area

ft²

Cancel

Save

3. The window will disappear, and the floor will appear in the tree beneath the building with which it is associated:



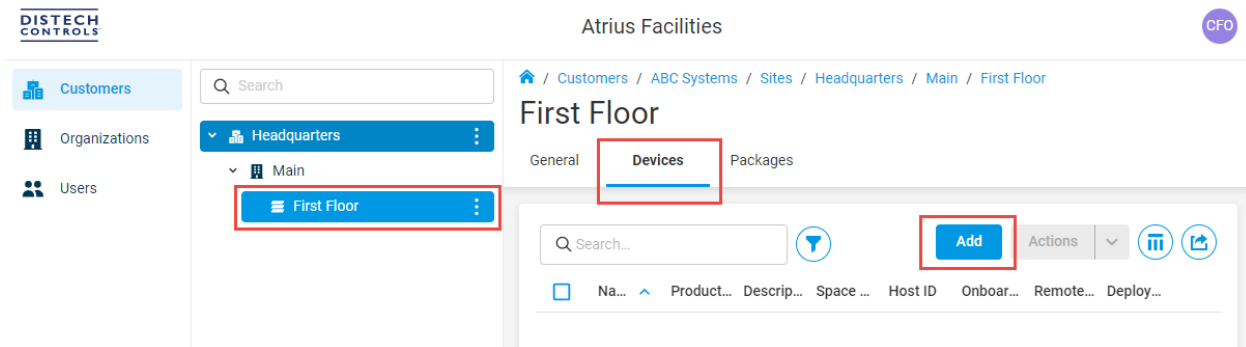
Adding a Device

Once the customer account has been set up, it is time to assign devices. You can assign devices to either buildings or floors, depending on individual need.

Assigning a Device to a Customer Building or Floor

Assign a device as follows:

1. From the tree list, select the floor to which you wish to add a device. Then click the **Devices** tab, and the **Add** button. (You can also click the three-dot menu to the right of the floor and then click **Add Device**.):



- The **Add Device** window will appear. Enter the device name and select the **Product** type from the drop-down menu. You also have the option of entering a description. **Host ID** will be added later. Once the desired information is populated, click **Save**:

Add Device [Close]

Provide the required data to add a new device.

Name *
AHU

Description
[Empty]

Product *
ECY-APEX BI

Host ID
[Empty]

Quantity *
1

Space Served
[Empty]

[Cancel] [Save]

- The window will disappear, and the device will appear under the **Devices** tab as well as in the tree under the floor:

Atrius Facilities

Customers / ABC Systems / Sites / Headquarters / Main / First Floor

First Floor

General **Devices** Packages

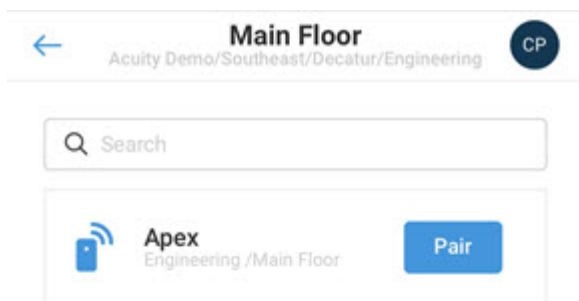
Name	Product Name	Description	Space Served	Host ID	Onboarding Stat.	Remote Tunnell.	Deployment Stat.
✓ AHU	ECY-APEX BI				Not Onboarded	Disabled	

You can add multiple devices to buildings and floors. You can also remove devices from the Devices tab.

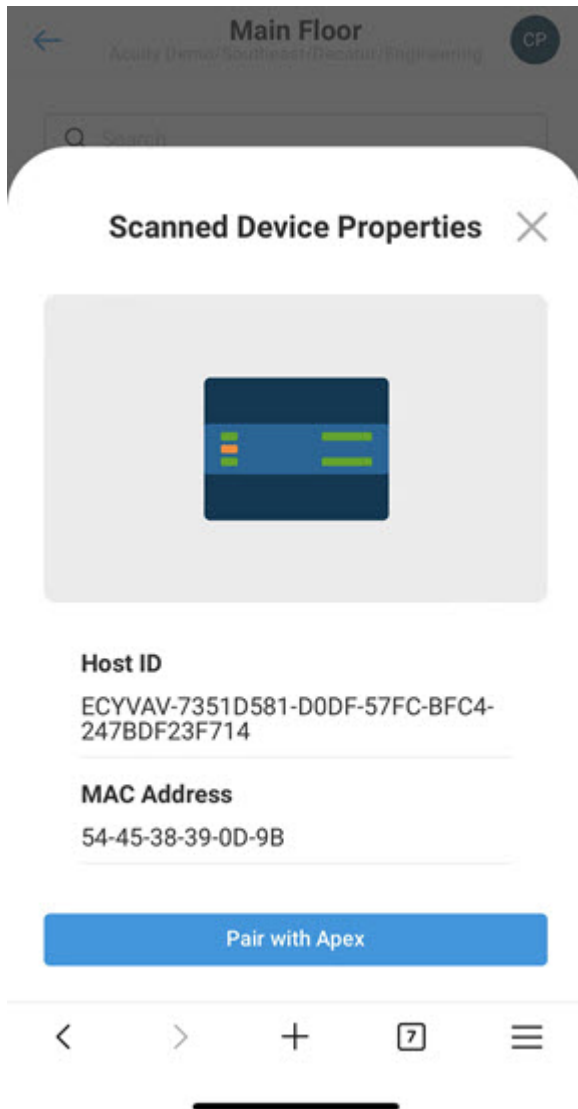
Pair and Onboard an ECLYPSE Device to Atrius Facilities

Once a device has been added to Atrius Facilities, it needs to be paired to a physical controller and onboarded.

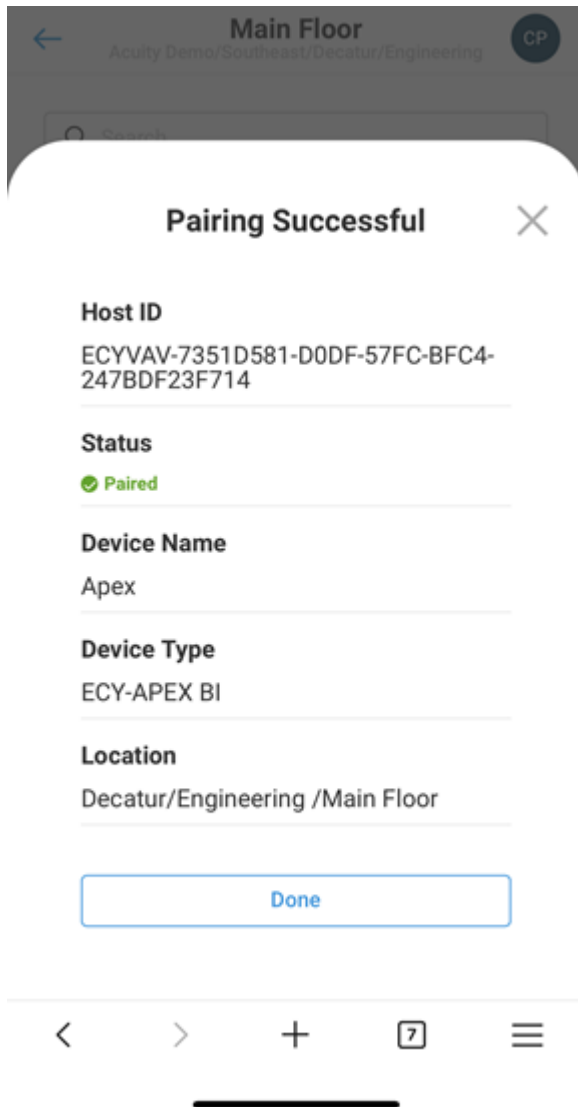
1. To pair and onboard a device, use the Atrius Facilities Mobile app. Login using the same details as you would Atrius Facilities. (Note: to pair a device without the mobile app, see **Appendix**).
2. Within the Atrius Facilities Mobile app, navigate through the list of your sites and buildings until you find the device you wish to pair, then click **Pair**:



3. The camera on your phone will open. Point at the QR code on the device you wish to pair. The device will register within the Atrius Facilities Mobile app. The Scanned Device Properties screen will appear on your phone. Finalize the pairing by clicking the blue Pairing bar to confirm:



4. A pairing confirmation screen will appear:



5. After clicking **Done**, you can see the paired device within the device list:



6. Return to Atrius Facilities and you will see the device is paired (you may need to refresh the page to see the pairing.). The Host ID will be populated, IoT onboarding status will say **Onboarded**, and the remote tunnelling status will show **Enabled** once you **Open Web Application** or **Launch EC-gfxProgram** as in the next step:

Home / Customers / The University of Distech / Sites / Brossard Campus / Administration / Floor 3 / APEX - CP

APEX - CP

General Packages

About

Name *
APEX - CP

Description

Product *
ECY-APEX BI

Host ID ⓘ
ECYAPEX-792DF962-CBEB-589F-8EA7-701

Space Served

Location ⓘ
Administration / Floor 3

IoT Onboarding

Info If you need to get your onboarding information again, click the Onboard button

Status
Onboarded

Remote Tunneling

Info Select the application to launch remote device connection.

Status
Enabled

7. To initiate your remote tunneling, **Open Web Application** or launch **EC-gfxProgram**:

Remote Tunneling

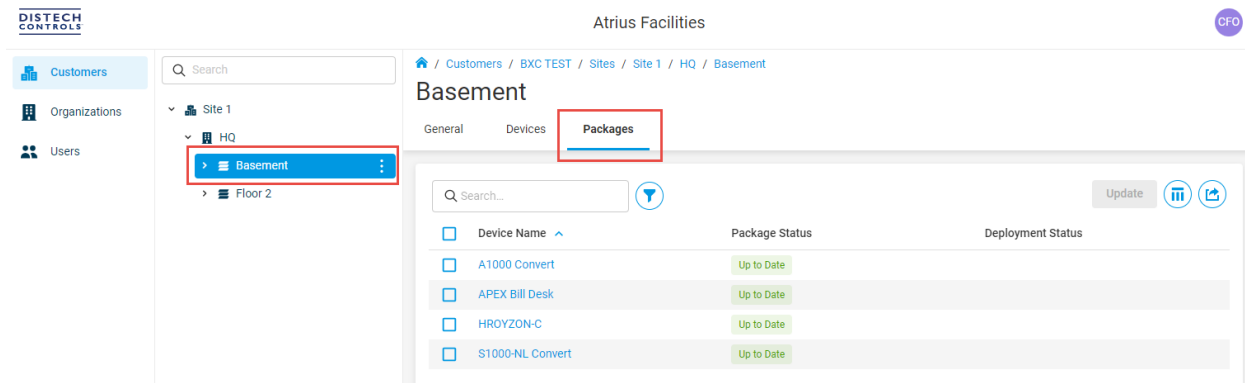
Info If you need to get your remote tunneling information again, click the Enable button.

Status
Enabled

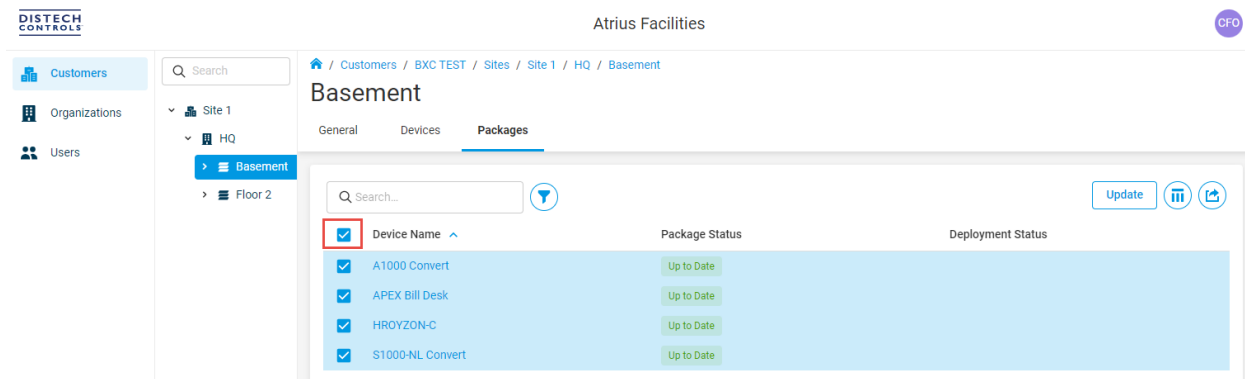
Updating a Device

You can check if devices need to be updated. This can be done at any level of the site to update multiple devices at once, or one device at a time.

1. To update multiple devices at once, select either the building or floor from the tree. Then, select the **Packages** tab. The devices will be listed with their status:



2. To update multiple devices, select the check box from the header, or select the specific devices which need to be updated:



3. Once you've selected the devices, click **Update** and the **Packages Selection** window will appear:

Packages Selection ×

Select the packages you want to install or update on the 4 devices.



<input type="checkbox"/>	Name ^	Description	Version
<input checked="" type="checkbox"/>	BACnet	BACnet for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	Containerization	Containerization support for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	ECLYPSE Framework	Base package for the ECLYPSE Framework	2.4.0+master.23199.2
<input type="checkbox"/>	Eclipse Operating System	Eclipse Operating System for ECLYPSE platform	2.4.0+master.23199.2
<input type="checkbox"/>	Extension IO module	Extension IO module management for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	Flood Network	Flood Network for ECLYPSE platform	2.4.0+master.23198.2
<input checked="" type="checkbox"/>	IoT	IoT support for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	MBUS	MBUS for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	Modbus	Modbus support for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	MQTT	MQTT support for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	Remote Tunneling	Eclipse Remote Tunneling Support	2.4.0+master.23198.2
<input type="checkbox"/>	Subnet extension	Subnet extension management for ECLYPSE platform	2.4.0+master.23199.1
<input type="checkbox"/>	Tag Network	Tag Network for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	UDMI	UDMI support for ECLYPSE platform	2.4.0+master.23198.2
<input type="checkbox"/>	UI	ECLYPSE User Interface and Designer	2.4.0+master.23198.2
<input type="checkbox"/>	UI Widgets	ECLYPSE UI Widgets	2.4.0+master.23198.1
<input type="checkbox"/>	Weather	Weather support for ECLYPSE platform	2.4.0+master.23198.2

2 rows selected

Total Rows: 17

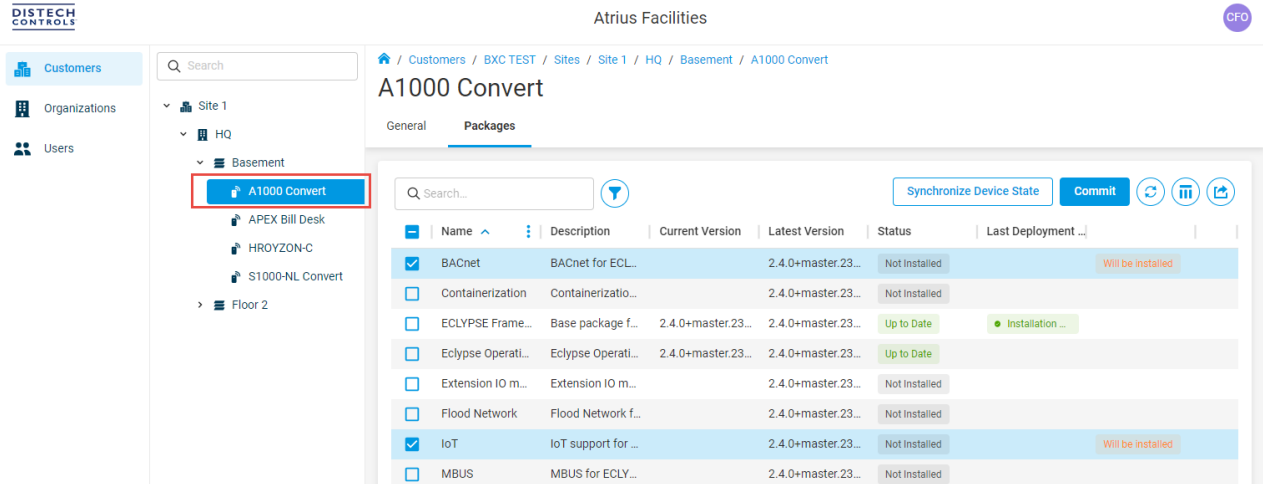
- Select the packages to update and click **Next**. The **Packages Deployment Summary** window will appear. Click **Commit** to install updates:

Packages Deployment Summary

Q Search...  

Device Name	Package Name	Action	Version	Latest Version
▼ A1000 Convert (2)				
	BACnet	Install		→ 2.4.0+master.23198.2
	IoT	Install		→ 2.4.0+master.23198.2
▼ APEX Bill Desk (2)				
	BACnet	Install		→ 2.4.0+master.23198.2
	IoT	Install		→ 2.4.0+master.23198.2
▼ HROYZON-C (2)				
	BACnet	Install		→ 2.4.0+master.23198.2
	IoT	Install		→ 2.4.0+master.23198.2
▼ S1000-NL Convert (2)				
	BACnet	Install		→ 2.4.0+master.23198.2
	IoT	Install		→ 2.4.0+master.23198.2

5. To update a single device, follow the same process as above, except select the single device from the tree. Then, select the updates required and click **Commit**:






Atrius Facilities

Customers / BXC TEST / Sites / Site 1 / HQ / Basement / A1000 Convert

A1000 Convert

General Packages

Synchronize Device State   

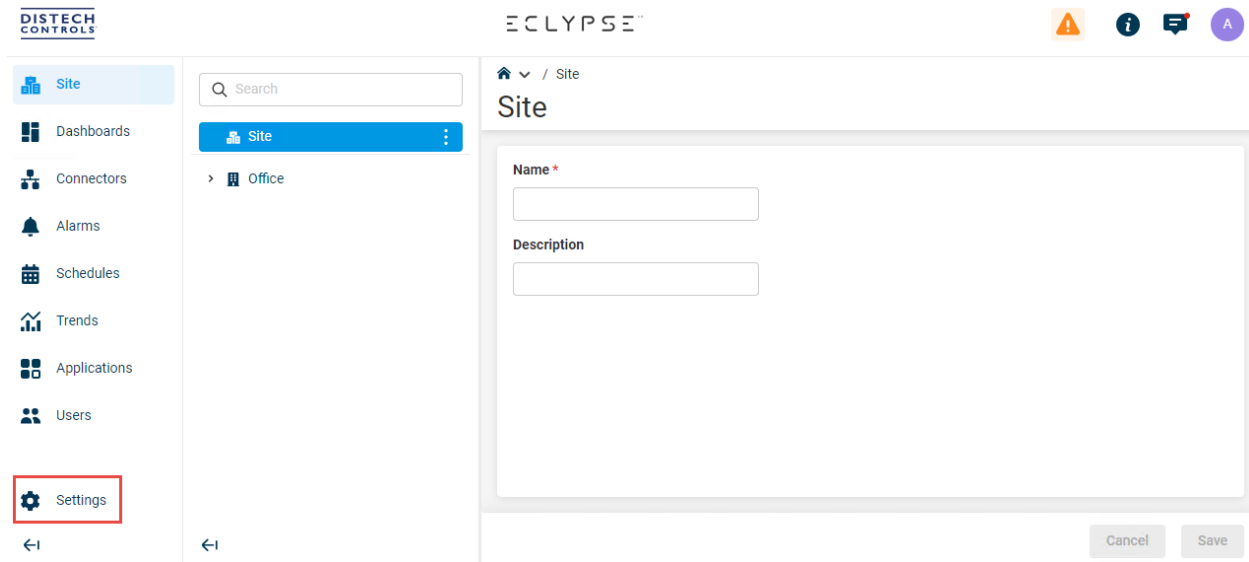
Name	Description	Current Version	Latest Version	Status	Last Deployment
<input checked="" type="checkbox"/> BACnet	BACnet for ECL...	2.4.0+master.23...	2.4.0+master.23...	Not Installed	Will be installed
<input type="checkbox"/> Containerization	Containerizatio...	2.4.0+master.23...	2.4.0+master.23...	Not Installed	
<input type="checkbox"/> ECLYPSE Frame...	Base package f...	2.4.0+master.23...	2.4.0+master.23...	Up to Date	Installation ...
<input type="checkbox"/> Eclypse Operati...	Eclypse Operati...	2.4.0+master.23...	2.4.0+master.23...	Up to Date	
<input type="checkbox"/> Extension IO m...	Extension IO m...	2.4.0+master.23...	2.4.0+master.23...	Not Installed	
<input type="checkbox"/> Flood Network	Flood Network f...	2.4.0+master.23...	2.4.0+master.23...	Not Installed	
<input checked="" type="checkbox"/> IoT	IoT support for ...	2.4.0+master.23...	2.4.0+master.23...	Not Installed	Will be installed
<input type="checkbox"/> MBUS	MBUS for ECLY...	2.4.0+master.23...	2.4.0+master.23...	Not Installed	

Appendix

To Pair an ECLYPSE Device to Atrius Facilities Without the Mobile App

Once a device has been added to Atrius Facilities, it needs to be paired.

1. To pair a device, open the interface of the device, and select **Settings**. If you already know your HostID, skip ahead to step 3:



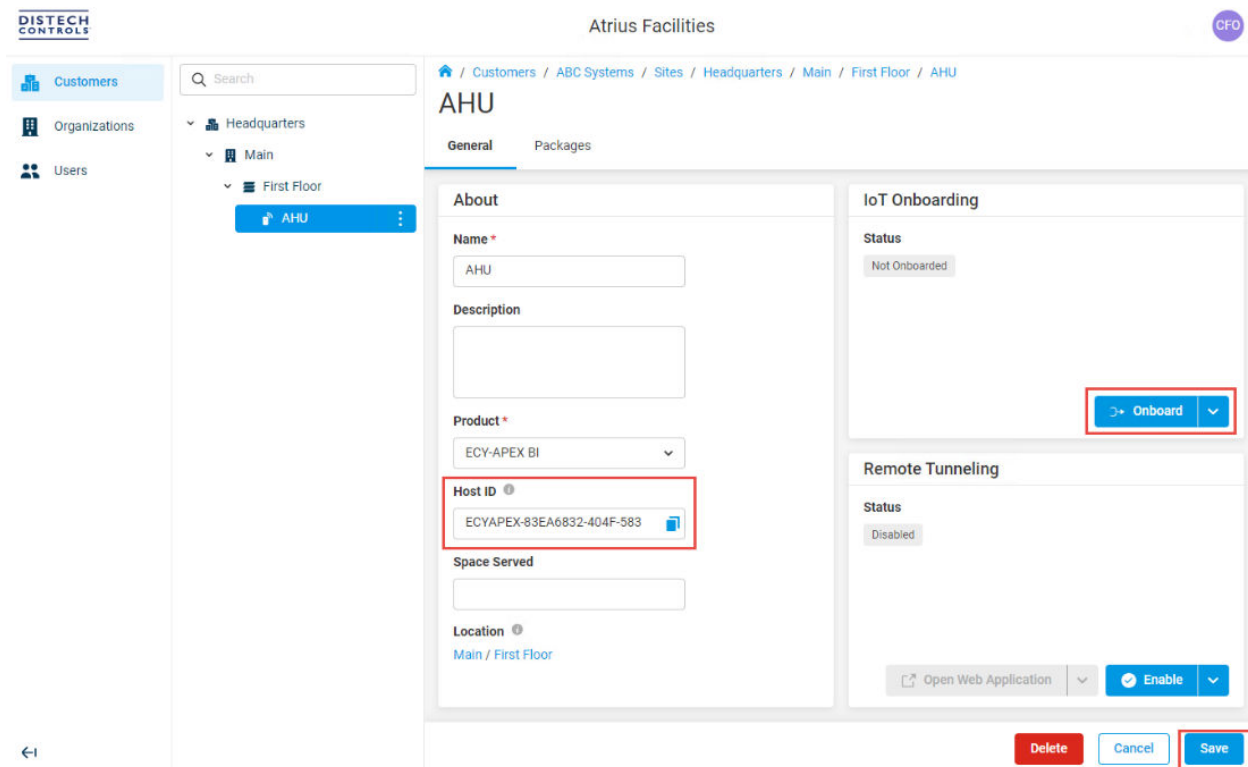
2. The **System Summary** screen will open, from which you will need to copy the **Host ID** using the blue copy icon:

The screenshot displays the ECLYPSE System Summary page. On the left is a navigation menu with options like Site, Dashboards, Connectors, Alarms, Schedules, Trends, Applications, and Users. The main content area is titled 'System Summary' and is divided into two columns: 'Device' and 'Network'. The 'Device' column lists various system attributes, with the 'Host ID' field highlighted in a red box. The 'Network' column provides details on internet connectivity, bridge status, DHCP settings, and ethernet/wireless configurations.

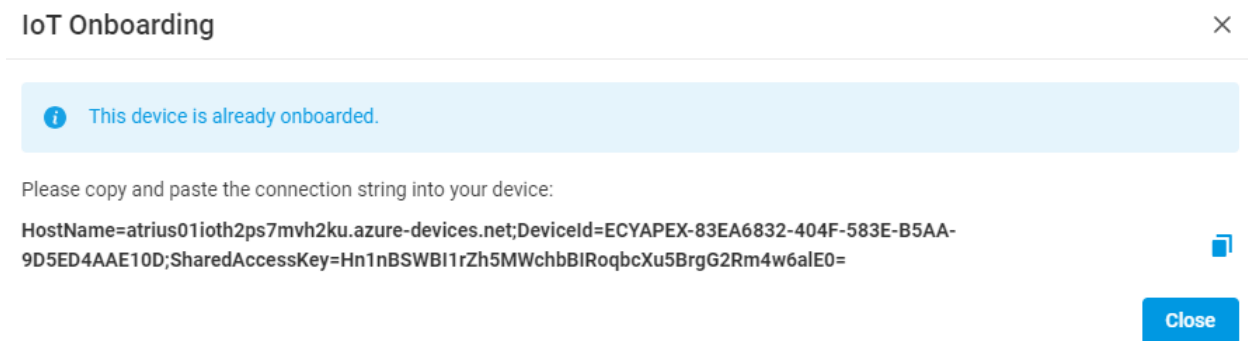
Device	
Architecture	aarch64
Model ID	40016C0005820427
Model Name	ECY-APEX-BI
Model Revision	1.0A
Vendor Name	Distech Controls Inc.
Host ID	ECYAPEX-83EA6832-404F-583E-B5AA-9D5ED4AAE10D
Framework Version	2.13.3.master-23226-1
Kernel Version	v5.15.113-71-gbe3918287fd1
OS Version	2022.5.3-256-gf5667e3
JVM Version	17.0.3

Network		
Connected To Internet		
Public IP 207.253.3.19		
Bridge		
Status	MAC Address	Interfaces
Connected	38:7f:cd:a0:03:91	primary, secondary
DHCP		
Enabled	IP Address	
	10.59.72.60	
Primary Ethernet		
Status	MAC Address	DHCP
Cable Plugged	38:7f:cd:a0:03:91	Enabled
IP Address -		
Secondary Ethernet		
Status	MAC Address	DHCP
Cable Plugged	38:7f:cd:a0:03:92	Enabled
IP Address -		
Wireless		
Status	MAC Address	Mode
Connected	00:22:a3:07:7a:9e	Hotspot
Network Name		IP Address
ECLYPSE-a00391		192.168.0.1

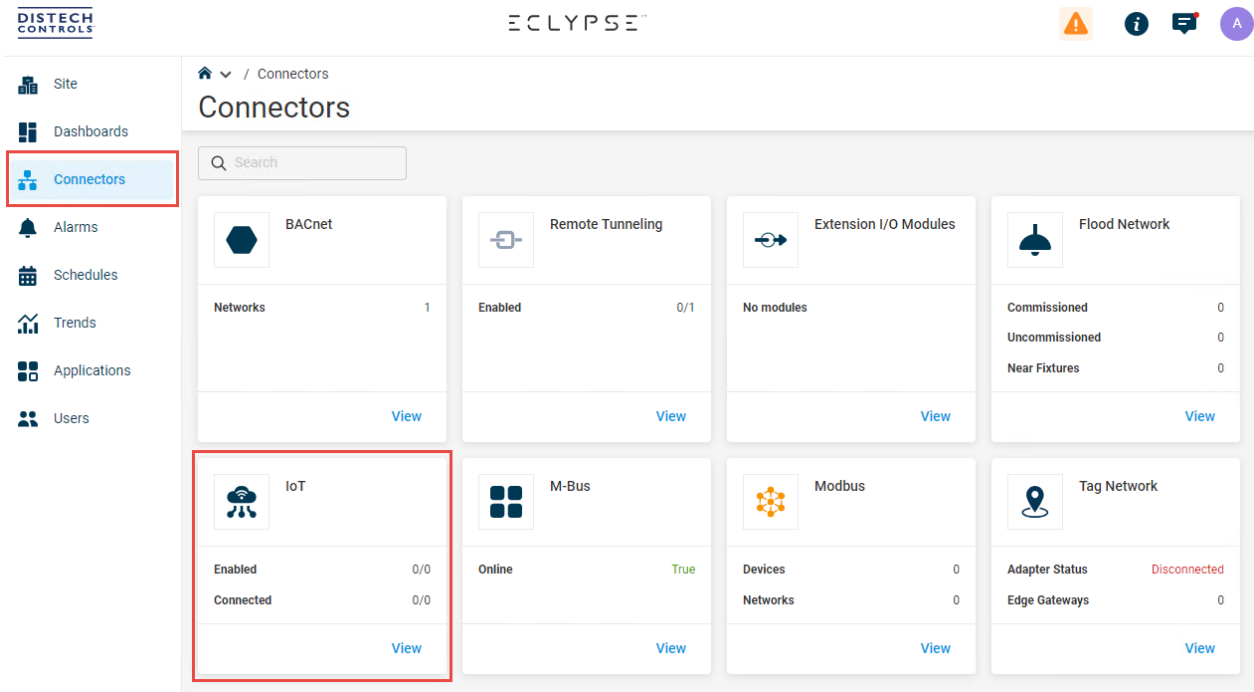
- Return to Atrius Facilities and paste the **Host Id** into the **Host ID** field. Next, click **Save**. Once saved, click **Onboard** to continue the onboarding.



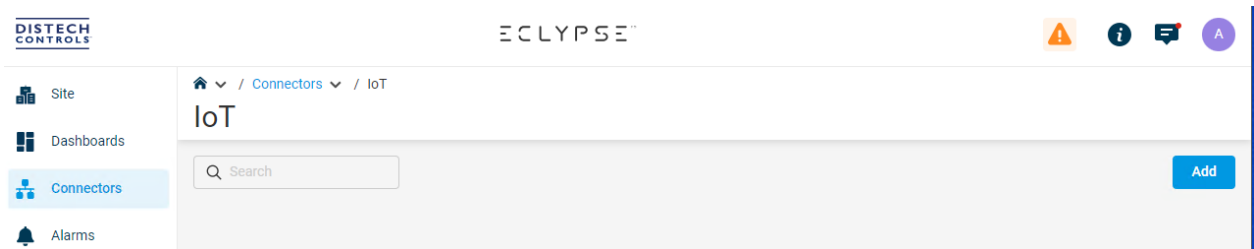
4. The **IoT Onboarding** window will open. Copy the connection string:



5. Return to the device interface and select **Connectors** from the left ribbon, then select **View IoT**:



6. From the IoT screen, click **Add**:



7. From the **Add Connection** window, paste the **Connection String** and give the connection a **Name**. Click **Save**:

Add Connection



Provide the required data to add a new connection.

Name *

Atrius Facilities

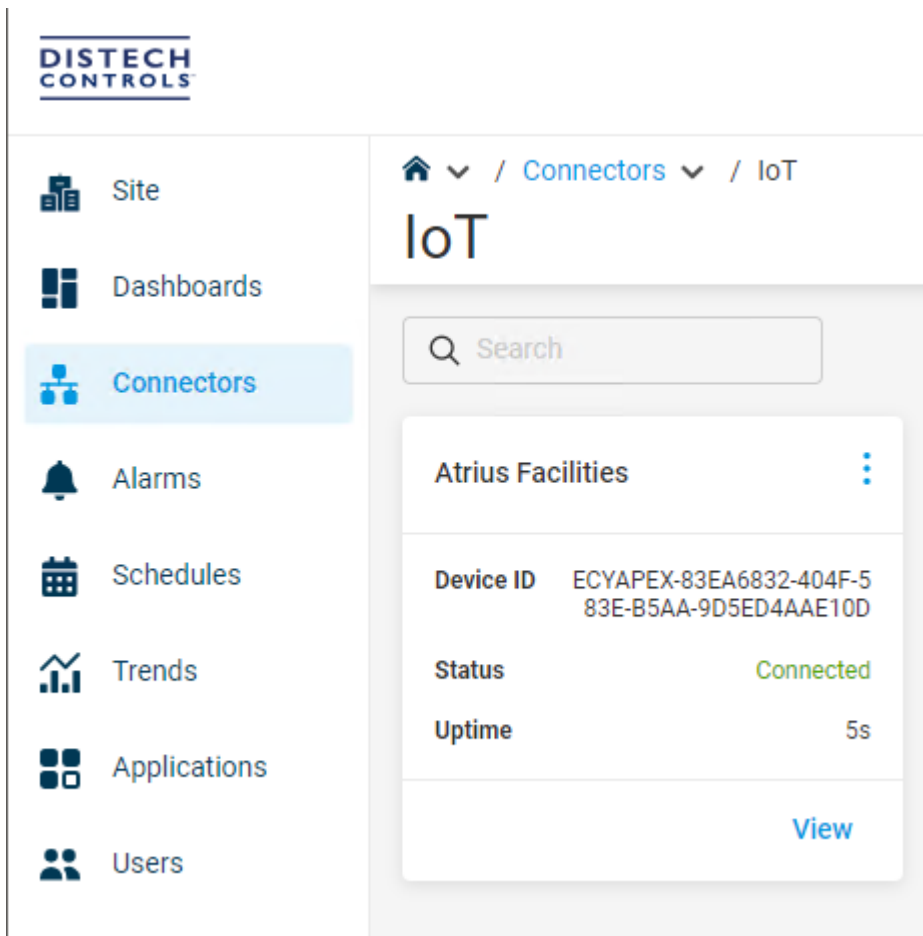
Connection String *

```
HostName=atrius01ioth2ps7mvh2ku.azure-  
devices.net;DeviceId=ECYAPEX-83EA6832-404F-583E-B5AA-  
9D5ED4AAE10D;SharedAccessKey=Hn1nBSWBI1rZh5MWchb  
BIRoqbcXu5BrgG2Rm4w6alE0=
```

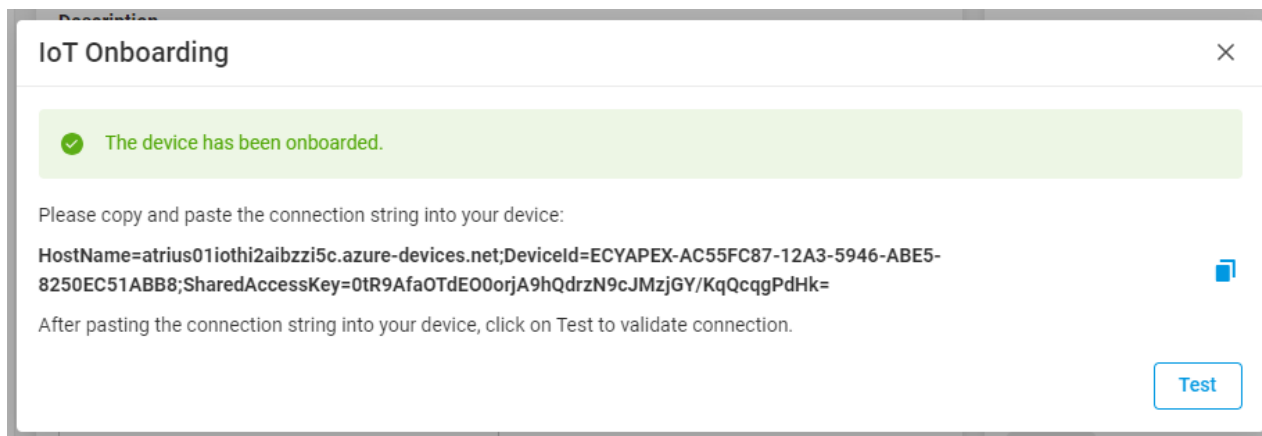
Cancel

Save

8. You will see the new connection on the IoT screen, and it will show as **Connected**:



9. To test the connection, return to Atrius Facilities. If you still have the **IoT Onboarding** pop-up window open, you can select **Test**. Otherwise, you can test from the **IoT Onboarding** panel:



Note: To activate Remote Tunneling, return to the Remote Tunneling steps within the Adding a Device section of this guide.

