

VT8000 Room Controllers

Connecting VT8000 to EcoStruxure Facility Expert Integration Guide



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Prerequisites

Ask your Schneider Electric representative to provide you with the instructions on how to create an account and order a license.

You will need a:

- Room Controller (VT8000), firmware revision 2.4 or later.
- Wi-Fi Module (VCM8002), firmware revision 1.1 or later.

Note: For best Wi-Fi performance, it is recommended to upgrade the Room Controller firmware to revision 2.5.1 or later and Wi-Fi Module firmware to revision 1.4 or later.

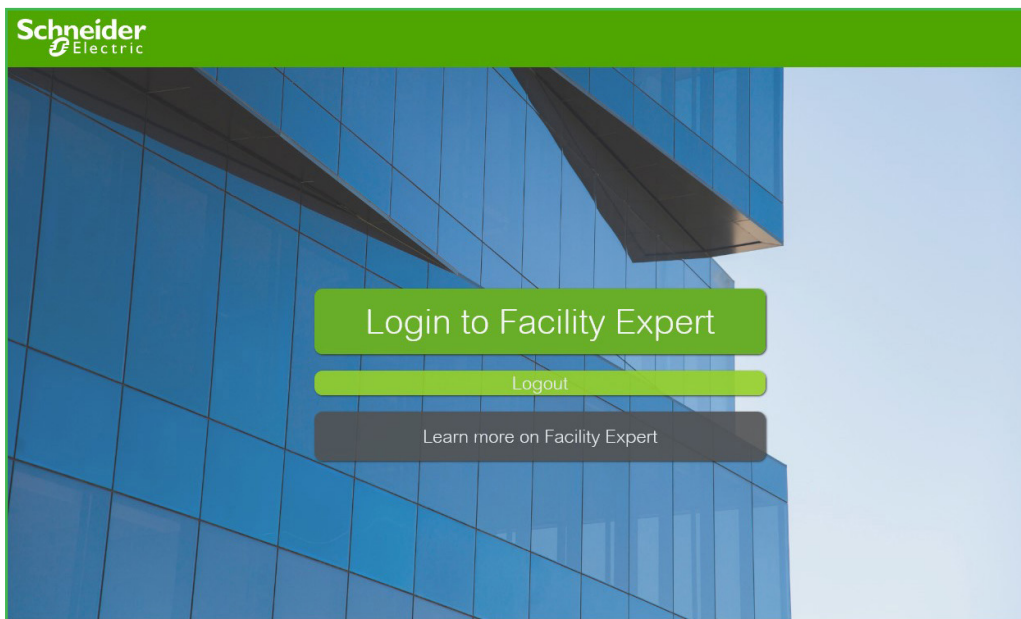
Step 1: Facility Expert Web Portal

This step allows you to setup the site and register the VT8000.

Important! Before proceeding, you must first create an account and order a license for Facility Expert.

Launch the Setup Wizard

1. Open an Internet browser (Google Chrome or Mozilla).
2. Use the URL corresponding to your location to access the Facility Expert login page :
 - Europe, Middle-East and Africa: <https://facilityexpert-eu.schneider-electric.com/>
 - America, Asia, Australia and New Zealand: <https://facilityexpert-us.schneider-electric.com/>
3. Click on **Login to Facility Expert**.



4. Enter your credentials (email and password), then click on **Login**.

Important! If this is the first time you connect to Facility Expert, click on **Register** to create your account. Refer to “Prerequisites” on page 3 for more information.

You have successfully connected to Facility Expert and now see the **Operation** page.

5. Click on **Settings**, and then on **SETUP WIZARD**.

You have successfully launched the setup wizard. Refer to the following sections for the next steps.

Create a Customer

1. Click on **Create new customer**.
2. Enter a **Name** and **Country**, then select an **Activity** for this new customer. The rest of the fields are optional.
Note: The selected Activity will be applied to all sites of this customer.
3. Click on **Next**.

Create a Site

1. Click on **Create new site**.
2. Complete the fields in the **Site Information** section.
3. Select a **Time zone** from the drop-down list in the General Parameters section.
4. Provide a **User name** and a valid **Email** address in the Company Legal Information section. A message requesting the signature of the Company Data Agreement will be sent to this email address.
Important! The legal representative of the site must sign the Company Data Agreement **before any data can be imported**.
5. Click on **Next**.

Assign a Multi-Site Subscription to the Site

1. Click a checkbox in the **Assign** column to select a Facility Expert multi-site subscription (SVSFE0004). The displayed subscriptions are the ones that you have purchased.
2. Click on **Next**.

Company Name > Company Name > Select subscription

Select the service and options you want to assign to the site. The here below table lists the services that are available and the services that are already assigned to the site.

Id	Assign	Date	Subscriptions				Label	
			Subscription name	Part numbers	Expiration date	Assets		Energy meters
manual-03f8bac-47d2-4b2b-b417-d89e2f5bb187	<input type="checkbox"/>	02/14/2020	Facility Expert Multi-Site	SVSFE0004		0 / 50	0 / 50	
manual-0475f417-bd12-45b2-9eca-c551787774e2	<input checked="" type="checkbox"/>	02/14/2020	Facility Expert Multi-Site	SVSFE0004		0 / 50	0 / 50	
			Facility Expert Smart Power	SVSFE0001				
			Energy cost	SVSFEOPT00A		0 / 5	0 / 5	
manual-049851de-9de9-4bcc-8648-dc302b049526	<input type="checkbox"/>	02/14/2020	Energy kiosk	SVSFEOPT007				

Exit Previous Next

Enter a Surface Area

1. Enter the building **Surface area** (in square meters or feet).
2. Click on **Next**.

Company Name > Company Name > Settings

Site Information

Building(s) Characteristics

Surface area sq ft

First day of week

Electrical Distribution

Declare main switchboards to be monitored

Previous years consumption (manual entry)

Targets

Exit Previous Next

Note: There is no need to select a main switchboard in the Electrical Distribution section if you are only connecting an VT8000 Room Controller.

Associate a Room Controller

1. Select **VT8000** from the Data source type drop-down list, and enter the **MAC Address** of the Wi-Fi Module (**no space, no colon**). The MAC Address can be found here:
 - Use the Copy button on the Facility Expert page of the Wi-Fi Module.
 - Refer to the Wi-Fi Network screens of the VT8000 Room Controller.
 - Refer to the label on the Wi-Fi Module.
2. Click on **Associate**.
3. Once “The data source has been associated to the site ...” is displayed, click on **Next**.

Note: To delete or modify the association of the VT8000, you must contact the Viconics Technologies Technical Support.

Step 2: Room Controller Setup

This step allows you to configure and connect the VT8000 to the Cloud.

Important! Make sure the legal representative of the site has signed the Data Company Agreement. Otherwise, **no data will be imported** in Facility Expert. Refer to “[Create a Site](#)” on [page 5](#) for more information.

Enter the Set-Up Mode of a Room Controller

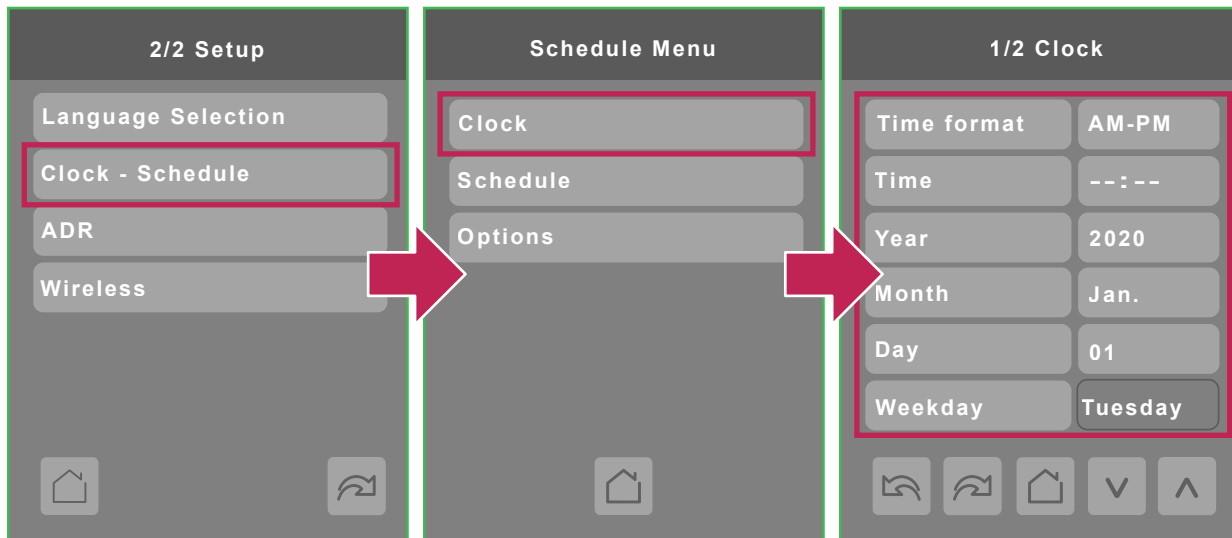


Touch and hold this point for 3 seconds to enter set-up mode

Note: If a configuration/installer password is activated to prevent unauthorised access to the configuration menu parameters, you will be prompted to enter your password before proceeding.

Set the Date and Time

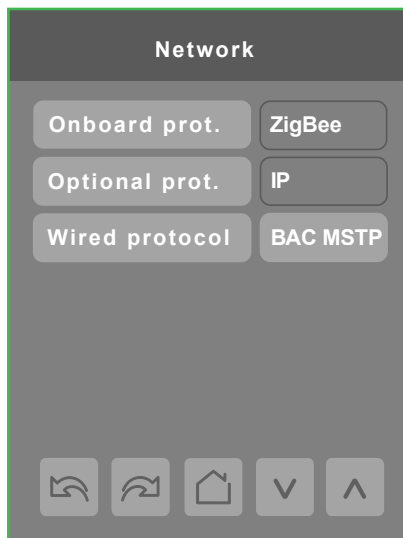
Tap **Clock - Schedule**, then **Clock**, and configure the VT8000 Room Controller for the HVAC Unit.



Important! Make sure the date and time have been set correctly.

Connect your Laptop / Smartphone to the Wi-Fi Module

1. Enter the Set-Up Mode of a Room Controller.
2. Navigate to the **Network** menu.



3. Using the left and right arrows, navigate to the **Wi-Fi configuration** screens.

4. Enable the **Wi-Fi Access Point**.
The SSID, Password and IP address fields will be populated.



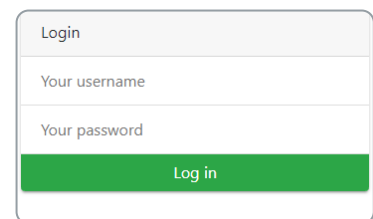
5. Connect your laptop or smartphone to the Access Point using the **SSID** and **Password** displayed on the Room Controller screen.
6. Open an Internet browser and connect to the IP address **192.168.71.1**.

Note: When connecting to the web page, the browser will display a warning due to the use of a self-signed certificate. Although strong security measures are in place, this warning appears as the browser is not able to authenticate the web site as online certificate authority. The warning must be accepted to proceed with the Configuration Web Page.

7. Enter the credentials below:

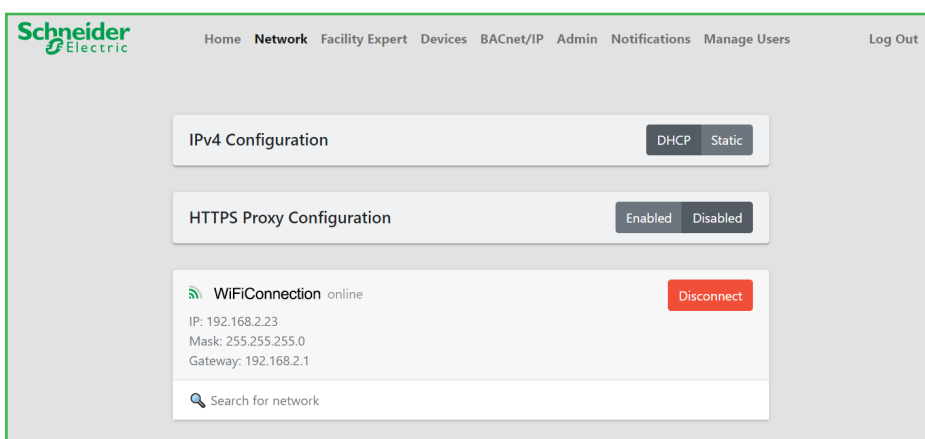
Username: **admin**
Password: **admin8000**

Note: The first time you log in to the system, you will be asked to change the password. Passwords must be at least 8 characters long and include: uppercase character, lowercase character, and a number or a symbol.



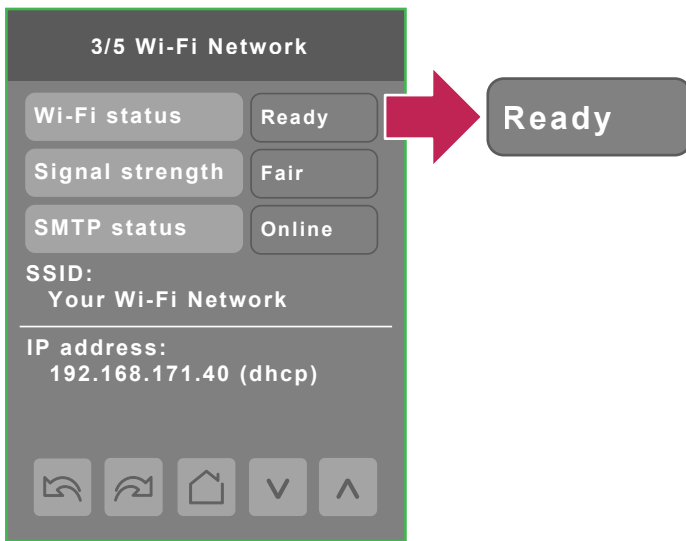
Each device should be configured with a strong and unique password. Do not re-use passwords for multiple devices.

8. Enter a new password and click on **Submit**. You are now ready to manage your Room Controller via the Configuration Web Page.
9. Click on the **Network** tab and connect to your desired Wi-Fi network.



10. Once connected, the Wi-Fi status will be displayed as **Ready** on the Wi-Fi network screen 3/5 on your Room Controller. The SSID and IP address to access the Room Controller via the browser are displayed.

Note: For Room Controller (VT8000) firmware Revision 2.5.1 or earlier, the Signal strength is displayed as a percentage (75%).

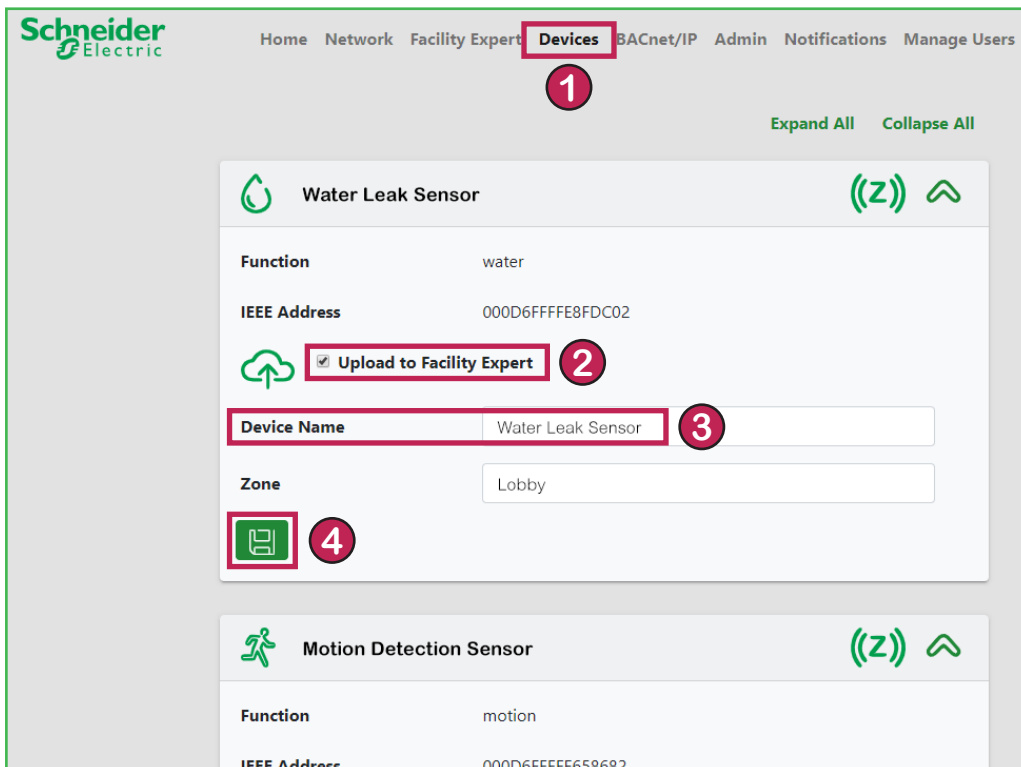


11. You can continue configuring your Room Controller using the Access Point or connect via the building Wi-Fi network.

Note: The Access Point will be disabled after the timeout period.

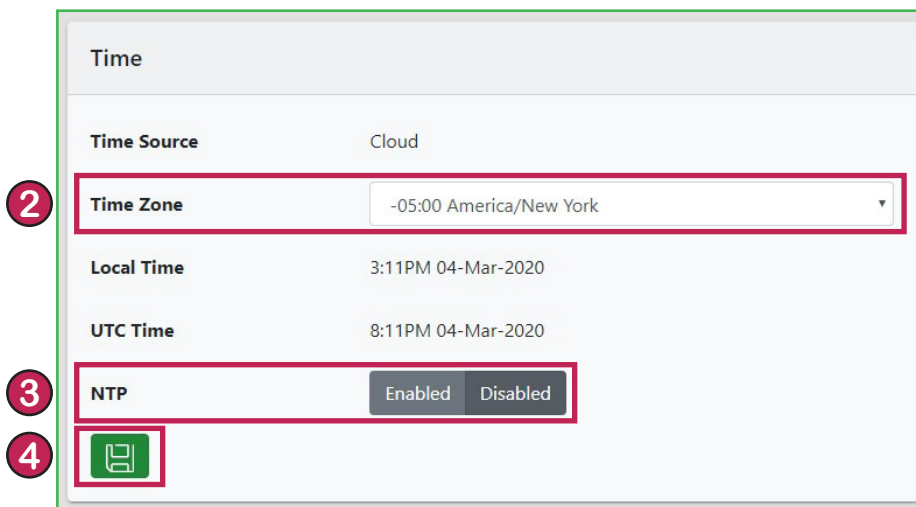
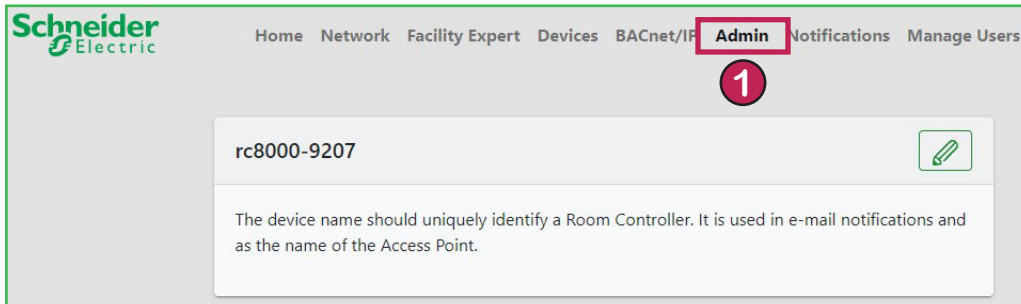
Configure Wireless Sensors (Optional)

1. Go to the **Devices** tab.
2. Enable **Upload to Facility Expert**, if needed.
3. Change the **Device Name**, if needed.
4. Click on **Save**.



Select the Time Zone

1. Go to the **Admin** tab.
2. Select the **Time Zone** of the site.
3. By default, NTP is set to Disabled. This is not a problem, because the device will synchronize its time with Facility Expert. However, you can choose to **Enable** NTP and configure a backup connection to ensure that time is still synchronized in the case where connectivity to Facility Expert is lost.
4. Click on **Save**.

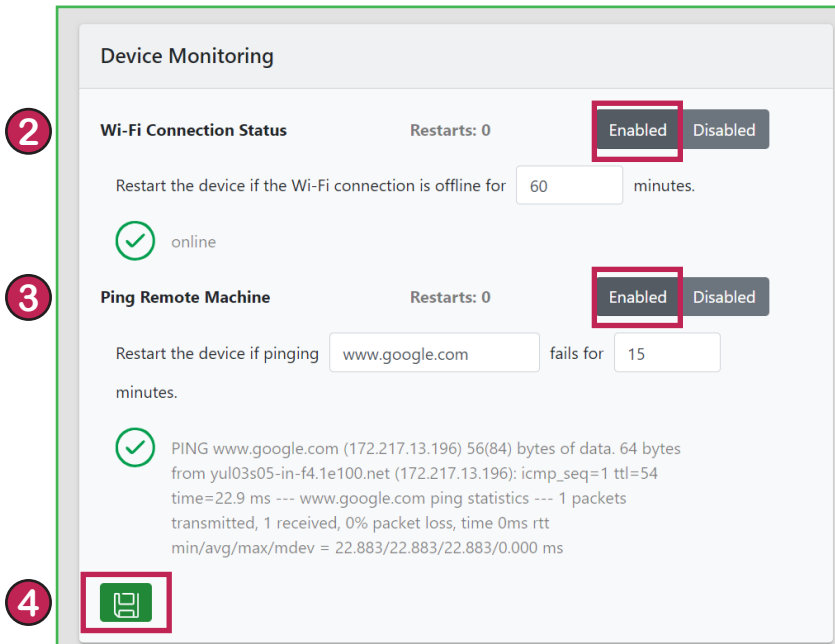
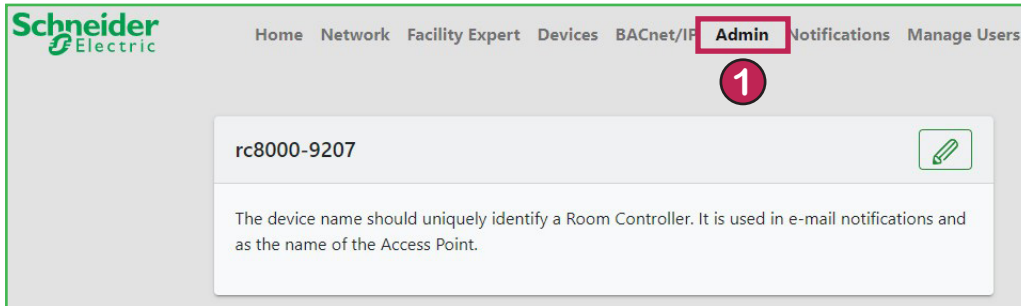


Select to Enable the Device Monitoring Features

1. Go to the **Admin** tab.
2. **Enable** Wi-Fi Connection Status.
3. **Enable** Ping Remote Machine.

Note: If your IT infrastructure allows the Room Controller to access the Internet, you can use a domain name. If Internet access is restricted by your IT administrator, you can use the network's gateway IP address (as your IT administrator for those details).

4. Click on **Save**.



Enable the Facility Expert Connection

1. Go to the **Facility Expert** tab.
2. Enter the **Zone Name** and **Unit Name** that are controlled by the VT8000. Make sure you use clearly-defined names, as they will be retrieved in Facility Expert (e.g.RTU Kitchen).
3. Click on **Save**. Changes are updated in the section underneath.
4. Make sure the Wi-Fi Network status is “Ready”. This can be verified using the “Network” tab on this web page or using the Wi-Fi Network pages on the VT8000 Room Controller. Refer to “[Connect your Laptop / Smartphone to the Wi-Fi Module](#)” on page 8.
5. Back on the Configuration Web Page, click on **Enabled**. The connection status will be changed to “Online”. The VT8000 Room Controller is now connected to Facility Expert.

Schneider Electric

Home Network **Facility Expert** Devices BACnet/IP Admin Notifications Manage Use

1

HVAC

HVAC Zone Name **2** Zone Réfectoire

HVAC Unit Name RTU Réfectoire

3

Facility Expert online **4** Enabled Disabled

MAC Address	74:e1:82:07:92:07	
Serial Number	9207	
Controller Name	SE8650-74e182079207	
Last Communication Time	03:09pm 04-Mar-2020	
HVAC Zone Name	Zone Réfectoire	
HVAC Unit Name	RTU Réfectoire	
Time Zone	America/New York	
Local Time	3:13PM 04-Mar-2020	
UTC Time	8:13PM 04-Mar-2020	

If not already done, go to Facility Expert to pair the room controller with a site.

Step 3: Facility Expert Mobile App

This step allows you to check and complete the HVAC Unit settings.

Log in to the Facility Expert App

Note: You can use the mobile app on a smartphone or tablet, but there is better visibility on the tablet version.

Open the **Facility Expert** mobile app or download it to your tablet (from Google Play or iTunes).



Or log in to the web version:

app.schneider-electric.com/ecotruxure/facilityexpert/

Important! When downloading the mobile app, do **NOT** download Facility Expert Small Buildings (FE SB).



Check the Site

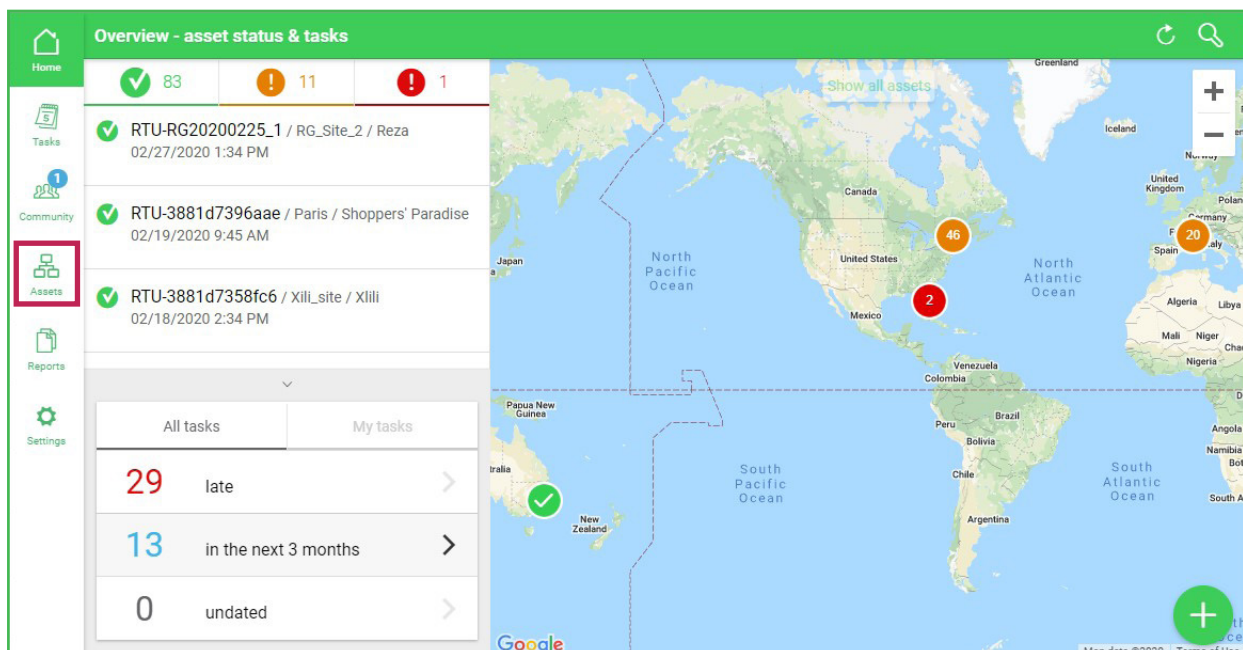


Wait 5 minutes after connecting a Room Controller to Facility Expert.

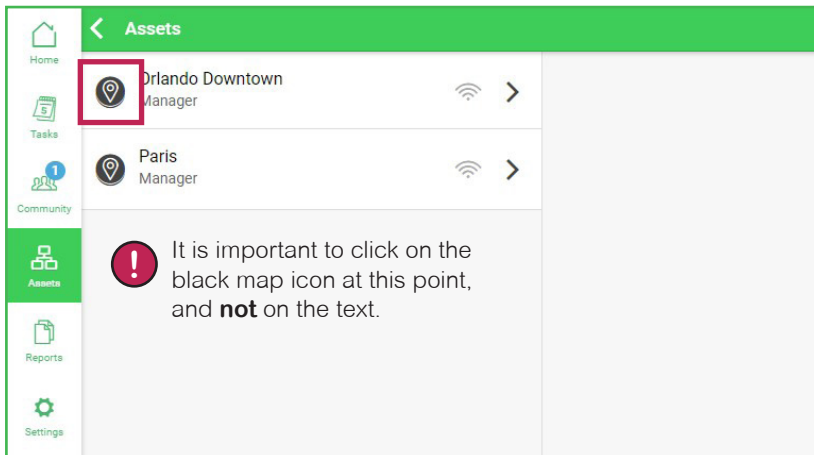
Note: It is important to make sure that:

- The end user has received the email and validated the data agreement, otherwise there will be no data sync.
- They are using the latest Firmware Revision of the VT8000 Room Controller.

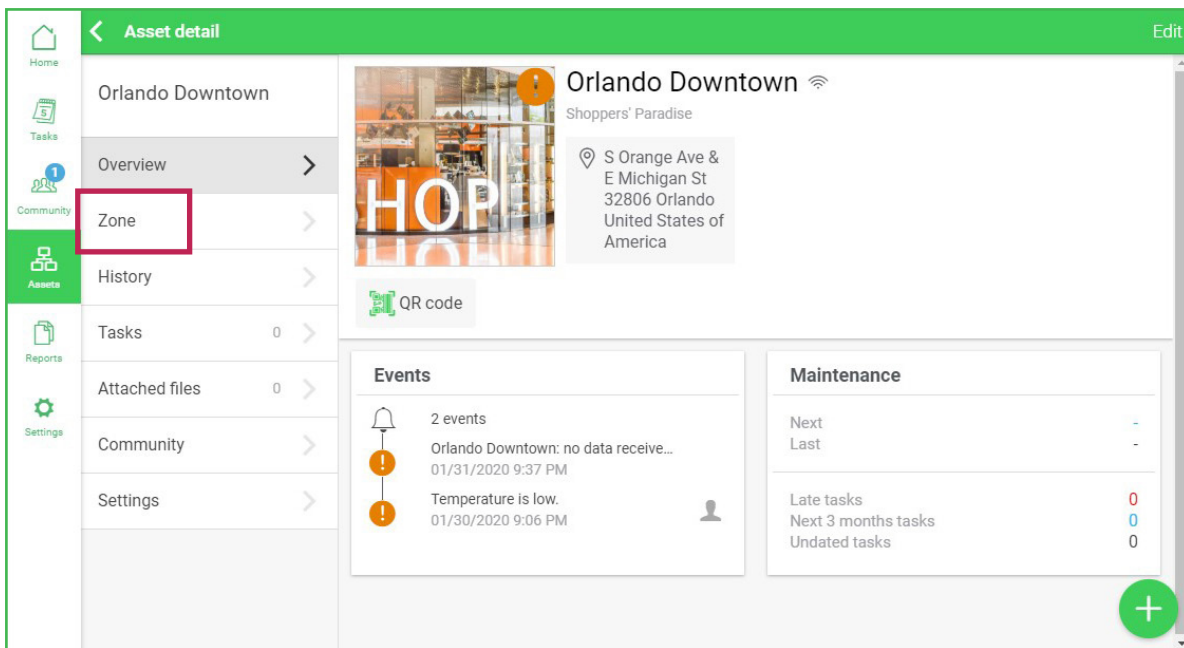
1. Click on the **Asset** tab.



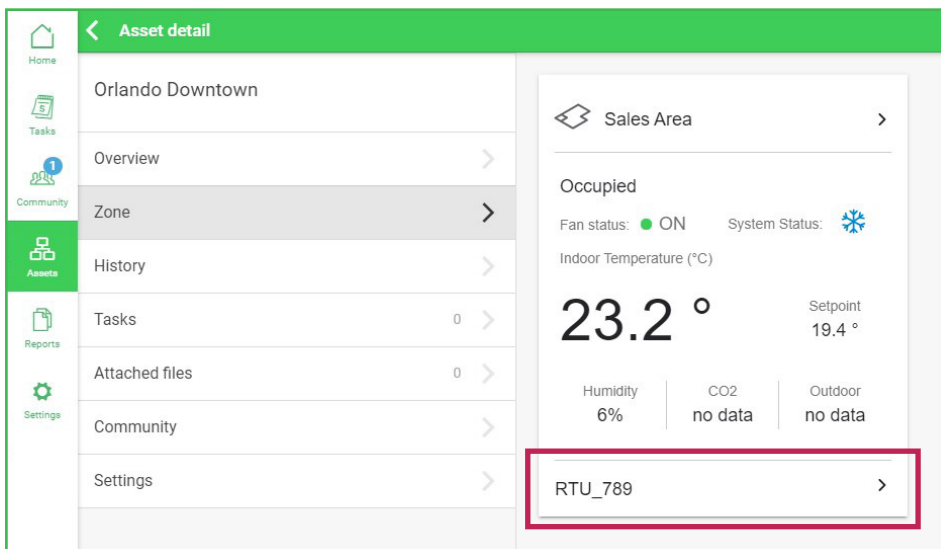
2. Check that the site is listed and click on its **icon**.



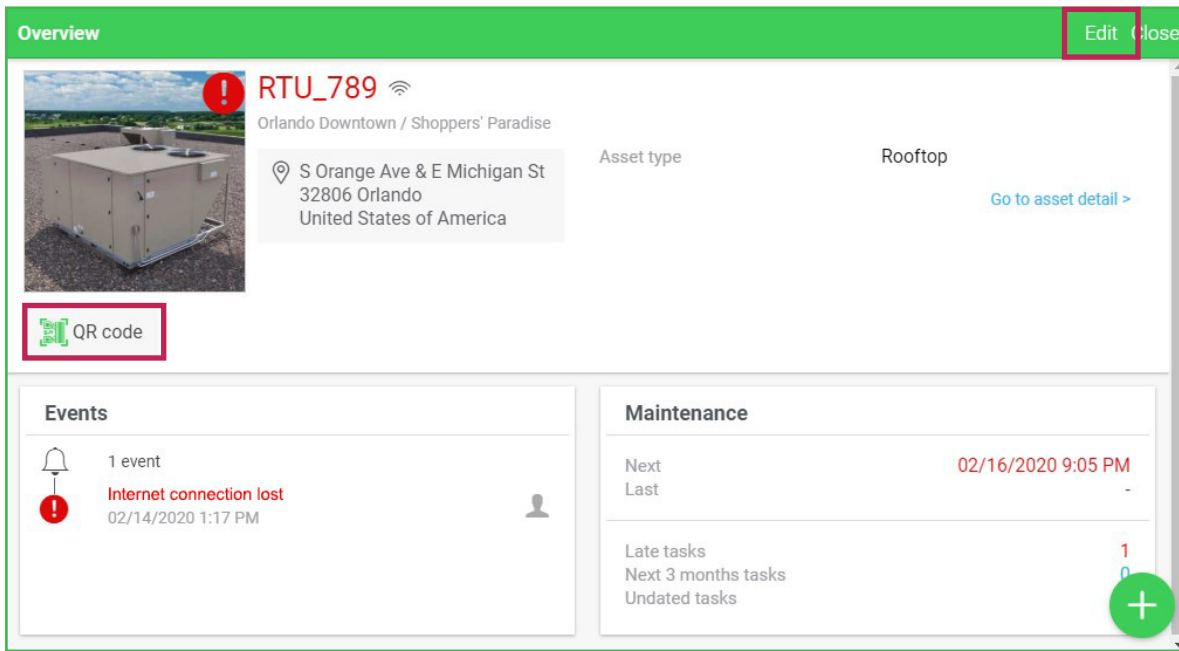
3. Check the site data and if needed, add a site picture by clicking on the icon . Click on the **Zone** tab.



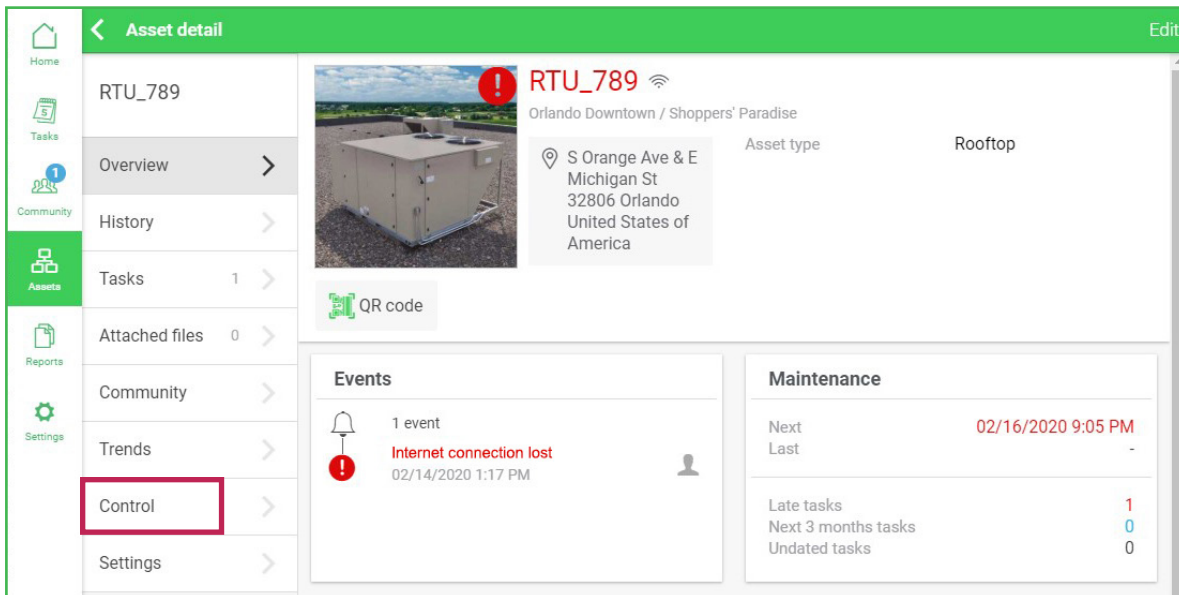
4. Check that the zone card is present for the commissioned Room Controller, and click on the **RTU name**.



- 5. If needed, you can add an RTU picture, as well as modify the address and nameplate (i.e. manufacturer, model, serial number, etc.). You can also generate a **QR code** that can be affixed on the RTU. Once scanned, it gives you direct access to the RTU in Facility Expert.



- 6. Click on **Go to asset detail**, then click on **Control**.



7. Click on **More parameters** to see advanced data (this link is also available under the Controller section).

Asset detail

RTU_789 Last acquisition: 2/17/20, 1:52 PM CHANGE PARAMETERS

Overview >

History >

Tasks 1 >

Attached files 0 >

Community >

Trends >

Control >

Settings >

RTU_789

Exhaust Air

Filter

Cooling

Heating

Fan

Economizer Demand 50%

Mixed Air: 30.0°C OSA: 0.0°C

Outdoor 20.0°C

Return Air 30.0°C

Supply Air 20.0°C

Y1 Y2 W1 W2

ON

More parameters

Controller SE8650

RTU_789 - More Parameters	
Economizer Configuration	Enabled
Economizer Demand	0%
Change Over Setpoint	12.8°C
Mixed Air Temperature (Airflow)	no data
Economizer Minimum Position	0%
Economizer Maximum Position	100%
Maximum Fresh Air Flow	0gal US/s
Minimum Fresh Air Flow	0gal US/s
Compressor Interlock	Inactive
Dehumidification Status	Inactive
Mechanical Cooling	Not allowed
Cooling CPH	4
Heating CPH	4

SE8650 - More Parameters	
Unoccupied Cool Setpoint	26.7°C
Standby Cool Setpoint	25.6°C
Occupied Cool Setpoint	19.4°C
Unoccupied Heat Setpoint	16.7°C
Standby Heat Setpoint	20.6°C
Occupied Heat Setpoint	17.1°C
Dehumidification Setpoint	50%
Minimum CO ₂	800ppm
Maximum CO ₂	1,200ppm
Minimum Deadband	1.3°C
Minimum Cooling	19.4°C
Maximum Heating	32.2°C

You have successfully completed commissioning!