SpaceLogic Room Controllers

Connecting SE8000 to EcoStruxure Facility Expert Integration Guide





Table of Contents

Prerequisites	3
Step 1: Facility Expert Web Portal	3
Launch the Setup Wizard	
Create a Customer	5
Create a Site	5
Assign a Multi-Site Subscription to the Site	6
Enter a Surface Area	6
Associate a Room Controller	7
Step 2: Room Controller Setup	7
Enter the Set-Up Mode of a Room Controller	7
Set the Date and Time	8
Connect your Laptop / Smartphone to the Wi-Fi Module	8
Configure Wireless Sensors (Optional)	10
Select the Time Zone	11
Select to Enable the Device Monitoring Features	
Enable the Facility Expert Connection	13
Step 3: Facility Expert Mobile App	14
Log in to the Facility Expert App	
Check the Site	

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:

- SpaceLogic Room Controller (SE8000), 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 SE8000.

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.

Eco@truxure Facility Expert for Energy Management	Email: john.smith@email.com Password: •••••••• Login Register Login with : Having trubble logging in? We process account registration information and connection logs for authentication and application access management <u>Privacy Notice</u>
Privacy Policy Learn more about EcoStruxure Facility Expert	Life Is On Schneider

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



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

Eco@truxure Facility Exr	ert		1 DATA		🕤 John Sm	ith 🔻 English - United States Help	Schneider
MY PROFILE	SETUP WIZARD	MY CUSTOMERS AND SITES	EVENTS	ADVANCED SETTINGS	UTILITY AND TARIEE SETTINGS	SCHEDULE SET UNITS	
	-2-						
Select customer							
 Select ex 	isting customer	~					
 Create n 	ew customer						

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.

MY PROFILE	SETUP WIZARD	MY CUSTOMERS AND SITES	EVENTS	ADVANCED SETTINGS	UTILITY AND TARIFF SETTINGS	SCHEDULE SETTINGS	<
Select customer							
				Nar	me: *		
					mail		
 Select e 	xisting customer	\checkmark		Coun	ALBANIA	v	
Create r	new customer			Activ	vity: * Clinic or Hospital		
				L			
						(3
						Exit Previous	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.

MY PROFILE	SETUP WIZA	RD I	IY CUSTOMERS AND SITES	EVENTS	ADVANCED SETTINGS	UTILITY AN	D TARIFF SETTINGS	SCHEDULE SETTINGS	<
Company Name >	Select site						- 1		
	Select evis	tina site		\checkmark			Create ne	aw site	
- Site information		ang ato			General Para	meters	C Croate In		
	Name: *					Time zone: *			~
	Country: *						This field is required.		
9	,	ONTEL	UIAILU L			Activity: *	Office	\checkmark	
A	Address 1: *								
	Address 2:				Company Le	gal Information	8		
	ZID Carlas *					a user / building	g owner user name *		
	ZIF COOB.				4	End user / bu	ilding owner Email *		
	City: *				End user /	building owner	Email Confirmation *		
	State: •								
GPS C	coordinates:	37.0902	4 -95.71289						
	000								
	Lugu.	Лг	Lipload logo						
		7.0							
									(5)
								Exit Previou	us Next
								and the second second	

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.

ipany Name > Com	pany Name	> Select subscrip	ption					
elect the service ar	nd options y	you want to assi	gn to the site. The	here below table list	ts the services that are a	available and	the services	s that are already assigned to the site.
			Subscriptions					
ld 🚹	Assign	Date	Subscription name	Part numbers	Expiration date	Assets	Energy meters	Label
manual-03f8fbac- 47d2-4b2b-b417- d89e2f5bb187	1	02/14/2020	Facility Expert Multi-Site	SVSFE0004		0 / 50	0 / 50	
manual- 0475f417-bd12- 45b2-9eca- c551787774e2	R	02/14/2020	Facility Expert Multi-Site	SVSFE0004		0/50	0 / 50	
			Facility Expert Smart Power	SVSFE0001				
manual- 049851de-9de9-		02/14/2020	Energy cost	SVSFEOPT00A		0/5	0/5	
40ca-8648- dc302b049526			Energy kiosk	SV/SEEOPT007				

Enter a Surface Area

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

MY PROFILE	SETUP WIZARD	MY CUSTOMERS AND SITES	EVENTS	ADVANCED SETTINGS	UTILITY AND TARIFF SETTINGS	SCHEDULE SETTINGS	<
Company Name >	> Company Name > Settir	gs					
Site Informatio	in						
Building(s) C Surfa	Characteristics	aq ft					
Electrical Dis	stribution						
Declare mair	n switchboards to be mo	Main Add					
Previous years	s consumption (manual)	entry)					*
Targets							2
						Exit Previous	Next

Note: There is no need to select a main switchboard in the Electrical Distribution section if you are only connecting an SE8000 Room Controller.

Associate a Room Controller

- 1. Select **SE8000** 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 SE8000 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.

MY PROFILE	SETUP WIZARD	MY CUSTOMERS AND SITES	EVENTS A	ADVANCED SETTINGS	UTILITY AND TARIFF SETTINGS	SCHEDULE SETTINGS
Company Name 2	Company Name > Data	source registration				
Company Name -	Company Number Data	00100109000001				
		Declare and associate th RN-DN.	e data sources of yo	our site. For Com'X data lo	gger, the serial number starts with	
			Data source type	SE8000	☑ (2)	
			MAC Address	74e1820853d8	Associate	
		-	111/10/1001000	110102000000		
		This dat:	a source has been as	ssociated to the site Com	bany Name	
						Exit Previous Next
1. Sec. 1. Sec						

Note: To delete or modify the association of the SE8000, you must contact the Schneider Electric Technical Support.

Step 2: Room Controller Setup

This step allows you to configure and connect the SE8000 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

2019.08,19 0ccupied Indoor °C 23.5° Humidity Couldoor	 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
Humidity Outdoor V	configuration menu parameters,
45% 18°C V	you will be prompted to enter your
© ?	password before proceeding.

Set the Date and Time

Tap Clock - Schedule, then Clock, and configure the SE8000 Room Controller for the HVAC Unit.

2/2 Setup	Schedule Menu	1/2 Clo	ock
Language Selection	Clock	Time format	AM-PM
Clock - Schedule	Schedule	Time	:
ADR	Options	Year	2020
Wireless		Month	Jan.
		Day	01
		Weekday	Tuesday

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.

Network	
Onboard prot.	ZigBee
Optional prot.	[IP
Wired protocol	BAC MSTP

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.

2/5 Wi-Fi Access Point
Access Point Enabled
SSID: rc8X00_000A
Password: 65F90617
IP address: 192.168.71.1
为 ¹ ¹ ¹ ¹ ¹

- 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.

Login
Your username
Your password
Log in

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.

Schneider Electric	Home Network Facility Expert Devices BACnet/IP Admin Notifications Manage Users	Log Out
	IPv4 Configuration DHCP Static	
	HTTPS Proxy Configuration Enabled Disabled	
	WiFiConnection online Disconnect IP: 192.168.2.23 Mask: 255.255.0 Gateway: 192.168.2.1	
	Search for 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 (SE8000) firmware Revision 2.5.1 or earlier, the Signal strength is displayed as a percentage (75%).

3/5 Wi-Fi Net	twork	
Wi-Fi status	Ready	Ready
Signal strength	Fair	
SMTP status	Online	
SSID: Your Wi-Fi Netw	ork	
IP address: 192.168.171.40 ((dhcp)	

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.
- 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.

Schne	ectric	Home Network Facility Expert Devices BACnet/IF Admin Notifications Manage Users
		rc8000-9207
		The device name should uniquely identify a Room Controller. It is used in e-mail notifications and as the name of the Access Point.
	Time	
	Time Sourc	e Cloud
2	Time Zone	-05:00 America/New York
	Local Time	3:11PM 04-Mar-2020
	UTC Time	8:11PM 04-Mar-2020
3	NTP	Enabled Disabled
4	H	

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.

Schnei GEle	der ctric	Home Net	work Facility Expert	Devices BA	Cnet/IF Admin	Notifications	Manage Users
		rc8000-9207					
		The device nam as the name of t	e should uniquely ident the Access Point.	ify a Room Co	ntroller. It is used ir	ı e-mail notifica	itions and
	Device M	onitoring					
2	Wi-Fi Conn	ection Status	Restarts: 0		Enabled Disabled		
	Restart the	e device if the Wi-F	i connection is offline fo	r 60	minutes.		
3	Ping Remo	e Machine	Restarts: 0		Enabled Disabled		
	Restart the minutes.	e device if pinging	www.google.com	fails for	15		
	PII fro tin tra mi	NG www.google.com yul03s05-in-f4.1 ne=22.9 ms www insmitted, 1 receive n/avg/max/mdev =	m (172.217.13.196) 56(8 e100.net (172.217.13.19 w.google.com ping stati: d, 0% packet loss, time (22.883/22.883/22.883/2	4) bytes of data 6): icmp_seq=1 stics 1 packe Oms rtt 0.000 ms	a. 64 bytes ttl=54 ets		
4	mi	n/avg/max/mdev =	22.883/22.883/22.883/	0.000 ms			

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 SE8000. 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 SE8000 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 SE8000 Room Controller is now connected to Facility Expert.

Schneider Electric	Home Network Facility E	xpert Devices BACnet/IP Admin Notifications Manage Use
	HVAC	
	HVAC Zone Name	Zone Réfectoire
	HVAC Unit Name	RTU Réfectoire
	B 3	
	Facility Expert online	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/ecostruxure/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 SE8000 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 on the **Zone** tab.



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

Orlando Downtown		Sales Area	
Overview		Oppuried	
Zone	>	Fan status: • ON Sys	tem Status: 💥
History		Indoor Temperature (°C)	
Tasks	0 >	23.2 °	Setpoint 19.4 °
Attached files	0 >	Humidity CO2	Outdoor
Community	>	6% no data	no data
Settings	>	RTU 789	

 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.

Overview			Edit Clo	
RTU_789 Orlando Downtown / Shoppers' Paradise				^
S Orange Ave & E Michigan St 32806 Orlando United States of America	Asset type	Rooftop Go to asse	t detail >	l
🔝 QR code				
Events	Maintenance			
1 event	Next	02/16/2020 9	0:05 PM	
Internet connection lost 02/14/2020 1:17 PM	Last		-	
	Late tasks		1	
	Undated tasks		Ŧ	

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

\square	🕻 Asset detai					
Home	RTU_789		PRTU Orlando	_ 789 奈 Downtown / Shoppe	rs' Paradise	Î
	Overview	>	♥ S M	Orange Ave & E ichigan St	Asset type	Rooftop
Community	History			nited States of nerica		
Assets	Tasks	1 >				
Beports	Attached files	0 >				
	Community		Events		Maintenance	
Settings	Trends	>	1 event Internet connection lost 02/14/2020 1:17 PM	£	Next Last	02/16/2020 9:05 PM -
	Control	>			Late tasks	1
	Settings	>			Undated tasks	0

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



RTU_789 - More Parameters		× SE8650 - More Parameters	
Economizer Configuration	Enabled	Unoccupied Cool Setpoint	26.7°C
conomizer Demand	0%	Standby Cool Setpoint	25.6°C
hange Over Setpoint	12.8°C	Occupied Cool Setpoint	19.4°C
xed Air Temperature (Airflow)	no data	Unoccupied Heat Setpoint	16.7°C
onomizer Minimum Position	0%	Standby Heat Setpoint	20.6°C
conomizer Maximum Position	100%	Occupied Heat Setpoint	17.1°C
aximum Fresh Air Flow	0gal US/s	Occupied near Octpoint	1110
inimum Fresh Air Flow	0gal US/s	Dehumidification Setpoint	50%
ompressor Interlock	Inactive	Minimum CO ₂	800ppm
humidification Status	Inactive	Maximum CO ₂	1,200ppm
echanical Cooling	Not allowed	Minimum Deadband	1.3°C
ooling CPH	4	Minimum Cooling	19.4°C
eating CPH	4	Maximum Heating	32.2°C

You have successfully completed commissioning!

Technical Support



For any issues with SmartStruxure Solution or SmartStruxure Lite, contact Schneider Electric Technical Support according to your region.

North America (NAM) Product Support Building Management Systems (BMS): nam.esxp.partner-led@se.com

Global Product Support Building Management Systems (BMS): productsupport.BMS@schneider-electric.com

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