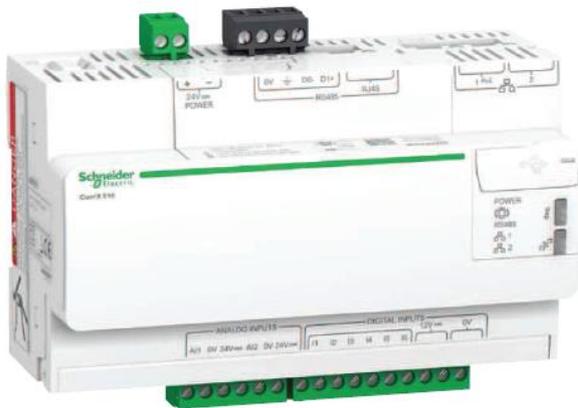


Publishing data with the EBX510 and a GPRS Modem

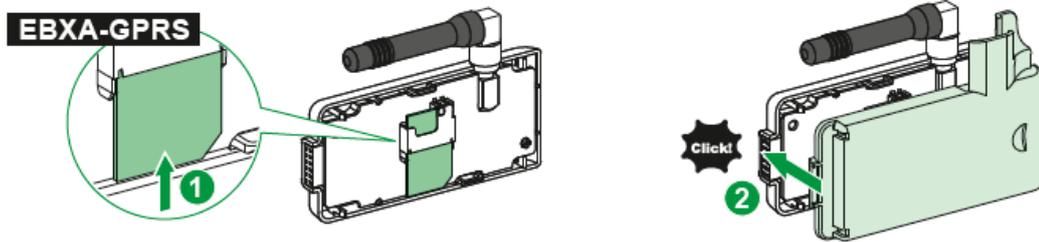


This document contains information on how to configure the EBXA-GPRS modem to publish logged data via email. It is assumed that the EBX510 has already been configured and all slave devices have been discovered and are online. It is also assumed that all devices that are connected have the appropriate topics selected for logging and publication.

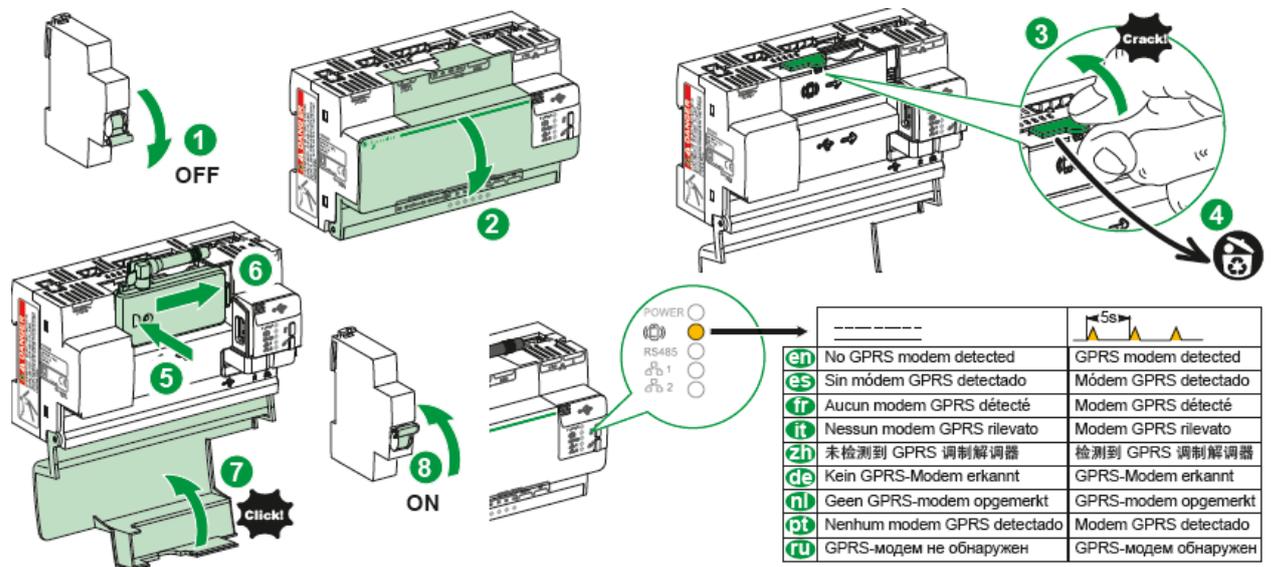
Installing EBXA-GPRS Modem:

You can use a normal Pre-pay NZ Sim card. For this document I have used a standard Vodafone NZ Pre-pay sim card.

Remove cover on the EBXA-GPRS and insert the sim card as shown.



Remove power from the Com'x510 and insert the GPRS as shown.



Restart the Com'x and wait for all lights to become solid. Power LED should turn steady Green and when ready and the GPRS light will also turn solid.

The colour and behavior of the LED is as below.

	No modem detected	(1)
	Modem detected	(2)
	Modem not connected to a network	(3)
	Weak signal level (red)	(4)
	Medium signal level (yellow)	
	High signal level (green)	

- (1) If No modem is detected the light will not be illuminated
- (2) The LED will flash in this manner while attempting to connect to the GPRS Network.
- (3) If the modem does not Connect the LED will flash as indicated
- (4) Depending on GPRS Signal Level the LED will be a solid colour as pictured.

Information will only be sent when there is a signal level of Medium to High.

Configuring the EBXA-GPRS:

General Setup and settings

Once logged into the EBX510, the time and date settings need to be checked to ensure accurate information is published. This is found in the Settings tab.

The screenshot shows the 'Settings' tab in the EBX510 interface. The 'Date/Time Settings' section is active. The 'Timezone' is set to 'New Zealand Standard Time (DST:UTC+12:00)'. There is a note: 'If you enable Schneider Electric Services, the date and time settings will be overwritten.' The 'SNTP support' is set to 'No'. The 'Date and time' is set to '07/05/2016' with a 'Today' button. The time is set to '12:15:29'. There are 'Save changes' and 'Cancel' buttons at the bottom right.

Network Settings will need to be changed. This needs to be changed to GPRS/3G and Switched Network

(IPv4 Address as per site if the device has already been configured)

The APN is dependent on which telecommunications provider is being used. In this instance we have used a Vodafone Sim Card.

The user name and password is only required if needed for authentication from your Telecommunications provider.

The screenshot shows the 'Settings' tab in the EBX510 interface. The 'Network Settings' section is active. The 'Choose your network configuration' dropdown is set to 'GPRS/3G and switched network'. The 'GPRS/3G' section is expanded, showing 'GPRS/3G modem reference' set to 'EBXA GPRS/3G', 'APN' set to 'www.vodafone.net.nz', and fields for 'Username', 'Password', and 'PIN code'. The 'Ethernet configuration' section is also expanded, showing 'Switched port configuration' with 'Interface status' set to 'ACTIVE', 'Configuration mode' set to 'Static IPv4 address', 'IPv4 address' set to '192.168.1.20', 'Subnet mask' set to '255.0.0.0', and 'IPv6 link-local address' set to 'FE80:0000:0000:0000:0280:67FF:FEF9:56FC'. There are 'Save changes' and 'Cancel' buttons at the bottom right.

To ensure the device is able to send the information we need to edit the admin user and give it the same email that is being used to publish the data.

The screenshot shows the 'Settings' tab in the EBX510 interface. The 'User Management' section is active. The 'Users' list shows 'admin' and 'guest'. The 'admin' user is selected. The 'Login ID' is 'admin', the 'Group' is 'administrator', the 'First Name' is empty, the 'Last Name' is empty, and the 'Email' is 'comx510@gmail.com'. There are 'New User' and 'Delete User' buttons at the top right. There are 'Save changes' and 'Cancel' buttons at the bottom right.

Publication settings:

To publish data it needs to be sent as a .csv file.

The frequency is dependent on how often you want to receive the data. It can be anywhere from every hour to every month. Please be aware that this may not be instantaneous. It can take up to 12 hours to receive the information.

To be able to send via email the Protocol will need to be SMTP.

The Server and Port fields are specific to your Telecommunications provider. Settings can be found online. I have used a Vodafone Sim and as such have used the appropriate Vodafone SMTP server and Port.

Using this method you can send data to any email address required as long as it is a valid email.

The screenshot shows the 'Publication settings' configuration page. The left sidebar contains a menu with options: General Settings, Schneider Electric Services, Date/Time Settings, Network Settings, Proxy Settings, Publication (selected), Wi-Fi Access Point Settings, Site Settings, Site Information, Data Logging, Communication, and Security. The main content area is titled 'Publication settings' and includes the following fields:

- Destination platform: CSV export
- Publication frequency: Every 12 hours
- Protocol: SMTP
- Server: smtp.vodafone.co.nz
- Port: 25
- Authentication required: Yes (selected), No
- From address: comx510@gmail.com
- To addresses: yourname@yourcompany.co.nz
- Compression activated: Yes (selected), No
- Field separator: Comma
- Decimal separator: Dot
- Date Format: MM-DD-YYYY

At the bottom right, there are buttons for 'Save changes' and 'Cancel', and a red asterisk indicating a required field.

If using a google email and you are using aspmx.l.google.com, the "To" and "From" addresses have to be a google email. It will not be able to send to another email client i.e Outlook or similar.

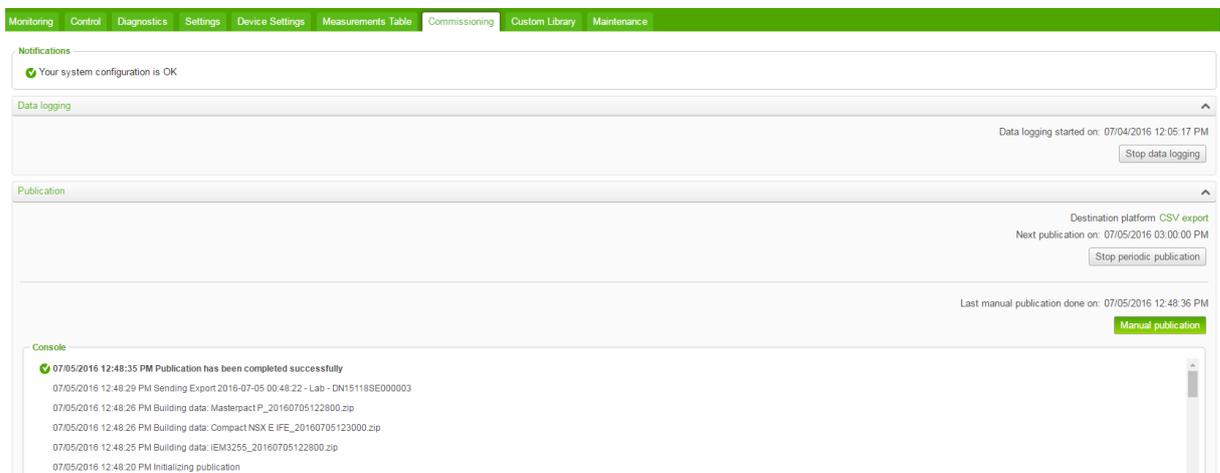
The screenshot shows the 'Publication settings' configuration page with the following fields:

- Destination platform: CSV export
- Publication frequency: Every 12 hours
- Protocol: SMTP
- Server: aspmx.l.google.com
- Port: 25
- Authentication required: Yes (selected), No
- From address: comx510@gmail.com
- To addresses: comx510@gmail.com, yourgmailaddress@gmail.com
- Compression activated: Yes (selected), No
- Field separator: Comma
- Decimal separator: Dot
- Date Format: MM-DD-YYYY

At the bottom right, there are buttons for 'Save changes' and 'Cancel', and a red asterisk indicating a required field.

If Data Logging and Periodic Publication have not been enabled, you will not receive any information.

This is enabled via the Commissioning tab. Once this is enabled you can then manually test the publication settings. This may not be an instantaneous and it can take up to 12 hours to receive the information.



Additional Email Settings:

With using gmail as the email client, there were some extra steps that were needed for the emails to be received. The email format was detected as spam and as such sent to the junk folder. A mail rule had to be created to ensure that it was sent to the main inbox. You can then add a forwarding address to a corporate email so that any publish data was automatically read and forwarded to the specified email address.

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