

1.0 Connecting OpenGN to an FX-3500 or FX-3318

Attention: Before you begin, follow the instructions in LT-1113 "OpenGN Administrator's Guide" (available on http://www.mircom.com) to install OpenGN and configure the computer running OpenGN and the OpenGN Gateway.

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Note: These instructions should be completed by someone who is familiar with configuring the FX-3500 or FX-3318. For the FX-3500, see LT-1083 the FX-3500 Installation and Operation manual, and LT-1148 the FX-3500 Configuration Guide. For the FX-3318, see LT-1201 the FX-3318 Installation and Operation manual, and LT-1148MOD the FX-3318 Configuration Guide (available on http://www.mircom.com).

You need:

- ARW-VESP211 Advantech Serial to Ethernet Converter
- Advantech software CD
- Ethernet cable (maximum 300')
- 9 pin male to female serial cable
- FX-3500 or FX-3318 firmware version 3.0.16
- MGC-3000 Configurator version 3.0.1 or later
- OpenGN version 3.8 or later
- OpenGN Gateway version 3.8 or later
- OpenGN license key
- Ethernet cable

1.1 Connect the ARW-VESP211

- 1. Connect the 9 pin serial cable to the COM port on the ARW-VESP211.
- Connect the other end of the 9 pin serial cable to the RS-232 port on the FX-3500/FX-3318.
- 3. Use an Ethernet cable to connect the LAN port on the ARW-VESP211 to the computer running the OpenGN Gateway.
- 4. Connect the ARW-VESP211 to the power.

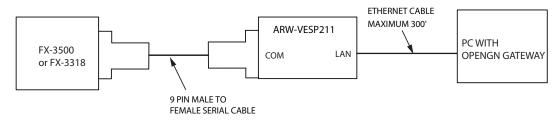


Figure 1 Connect the ARW-VESP211 to the OpenGN Gateway Computer



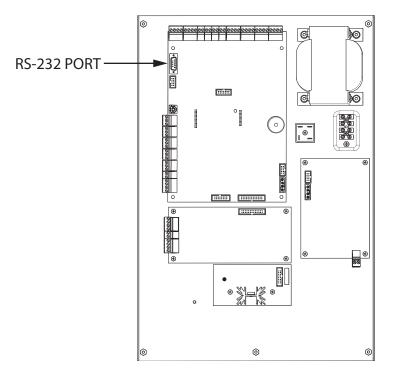


Figure 2 RS-232 Port on the FX-3500/FX-3318

1.2 Configure the ARW-VESP211

1.2.1 Configure the OpenGN Gateway Computer to Connect to the ARW-VESP211

In order to initially connect to the ARW-VESP211, the OpenGN Gateway computer must have a specific IP address.

- 1. On the computer that the OpenGN Gateway is on, click **Start**, then click **Settings**.
- 2. Click Network and Internet.
- 3. Click Network and Sharing Center.
- 4. Click the Ethernet connection.



The Ethernet Status window appears.

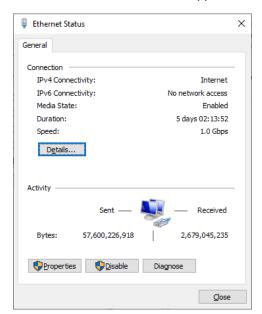


Figure 3 Ethernet Status

5. Click Properties.

The **Ethernet Properties** window appears.

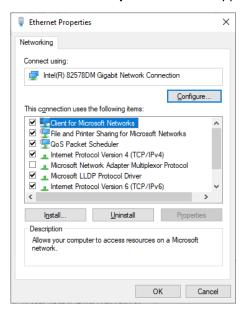


Figure 4 Ethernet Properties

6. Double-click Internet Protocol Version 4 (TCP/IPv4).



Internet Protocol Version 4 (TCP/IPv4) Properties General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Ogbtain an IP address automatically Use the following IP address: IP address: Subnet mask: Default gateway: Ogbtain DNS server address automatically Use the following DNS server addresses: Preferred DNS server: Alternate DNS server:

The Internet Protocol Version 4 (TCP/IPv4) Properties window appears.

Figure 5 Internet Protocol Version 4 (TCP/IPv4) Properties

Ad<u>v</u>anced...

Cancel

- 7. Click Use the following IP address.
- 8. Type the following addresses:

P address: 169.254.102.40

Subnet mask: 255.255.0.0

5. Click OK.

1.2.2 Install the Vlinx Serial Server Manager

Insert the Advantech CD into the OpenGN Gateway computer.
 The Vlinx Serial Server Manager Installation Wizard starts automatically.



Figure 6 Welcome to the Vlinx Serial Server Manager Installation Wizard

2. Follow the instructions on the screen to install the Vlinx Serial Server Manager.



1.2.3 Configure the ARW-VESP211

 On the OpenGN Gateway computer, open the Serial Server Manager: click Start > B&B Electronics > Vlinx > Vlinx Serial Server Manager.

The Vlinx Serial Server Manager appears.



Figure 7 Vlinx Serial Server Manager

- 2. Click I don't know the IP address of the device.
- 3. Click Connect.

The Vlinx Serial Server Manager looks for devices.



Figure 8 Advantech Device Details

The Login screen for the ARW-VESP211 device appears.



Figure 9 Login screen



4. Enter the Login password, then click **Login**. By default, the password is blank. The General screen appears.



Figure 10 General screen

- 5. Enter a name that describes the panel that the device is connecting to, for instance **FX-3500** or **FX-3318**.
- 6. Select I want to change the password, then enter the new password.
- 7. Click Save.



Note: Keep a record of the password. You will need it in a later step.

8. Click Network on the left sidebar.

The Network screen appears.

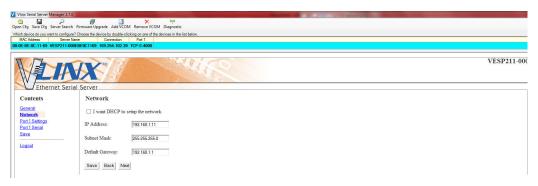


Figure 11 Network screen

9. Enter the following information:

IP address
Subnet Mask
Default Gateway

Consult your network administrator for assistance. The IP address must be in the same range as the IP address of the computer running the OpenGN Gateway. The gateway and subnet mask must be the same as they are on the OpenGN Gateway computer.

For example, if the OpenGN Gateway computer's IP address and subnet mask are 192.168.1.10 and 255.255.255.0, then you can enter **192.168.1.11** and **255.255.255.0** as the ARW-VESP211's IP address and subnet mask.



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Note: Keep a record of the IP address. You will need it in a later step.

To ensure a constant connection to OpenGN, you must assign a static IP address to the ARW-VESP211.

10. Click Next.

The Port 1 Settings screen appears.

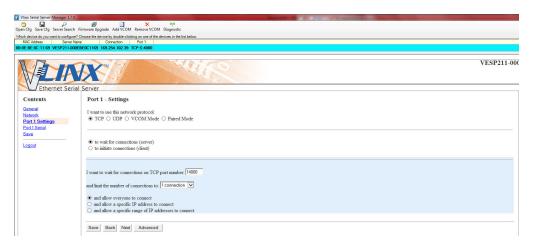


Figure 12 Port 1 - Settings

11. Enter the following information:

I want to use this network protocol	TCP
to wait for connections (server)	Select this option
I want to wait for connections on TCP port number	14000
and limit the number of connections to	1 connection
and allow everyone to connect	Select this option



12. Click Next.

The **Port 1 - Advanced** window appears.

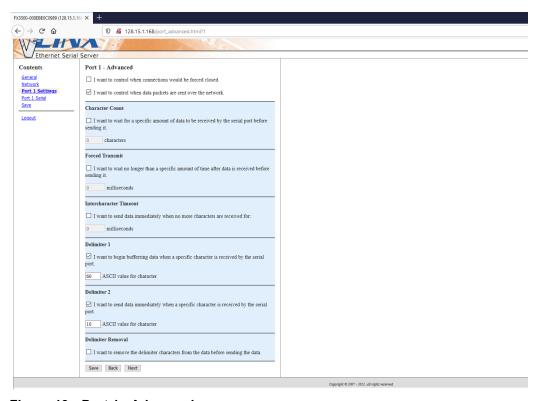


Figure 13 Port 1 - Advanced

13. Enter the following information:

I want to control when data packets are sent over the network	Select this option
Under Delimiter 1: "I want to begin buffering data when a specific character is received by the serial port"	60
Under Delimiter 2: "I want to send data immediately when a specific character is received by the serial port"	10

14. Click Next.



The **Port 1 - Serial** window appears.



Figure 14 Port 1 - Serial

15. Enter the following information:

Mode	RS-232
Baud	9600
Data bits	8-Bits
Stop bits	1-Bit
Parity	No Parity
Flow Control	No Flow Control

- 16. Click Next.
- 17. Under **Save**, click the **Save** button and wait for the Login screen to appear.

1.2.4 Configure the OpenGN Gateway Computer

• Change the IP settings for the OpenGN Gateway computer to their previous values. See section 1.2.1 on page 2 for instructions on how to change the IP settings.

If you need assistance, contact your network administrator.

If you are connecting the OpenGN Gateway computer to an FX-3500/FX-3318 panel directly over Ethernet, enter an IP address that is different than the IP address of the FX-3500/FX-3318 panel. Enter the same subnet mask as the subnet mask on the panel.



1.3 Export the Job File

You need:

- The MGC-3000 Series Configurator Utility version 3.0.1 or later
- Connect the FX-3500/FX-3318 to the computer that has the MGC-3000 Series Configurator Utility installed on it.
- In the MGC-3000 Series Configurator Utility, open the job for the FX-3500/FX-3318 panel.
- 3. Select **OpenGN** in the **Port Protocol** menu.

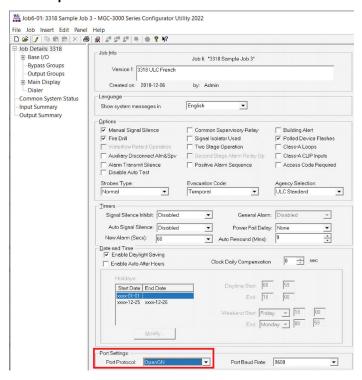


Figure 15 MGC-3000 Series Configurator Utility

- 4. Send the job to the panel.
- 5. Click Job > Export Job.

The Export current job to a file window appears.

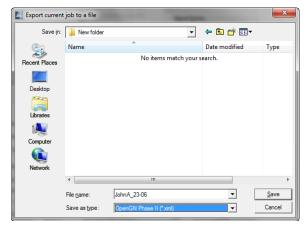


Figure 16 Export current job to a file



6. In the Save as type menu, click OpenGN Phase II (*.xml), and then click Save.

The job file is saved with the name JobX-Y.xml, where X is the job number and Y is the job version.

1.4 Import the XML Configuration File into OpenGN

- 1. Transfer the job file you just saved to the computer that OpenGN is running on.
- 2. Insert the OpenGN CodeMeter license key in the computer.
- 3. Start OpenGN.

The Login window appears.



Figure 17 Login Window

- 4. Select the user from the **Login** menu.
- 5. Type the password.
- 6. Click OK.

The OpenGN Main Display window appears.

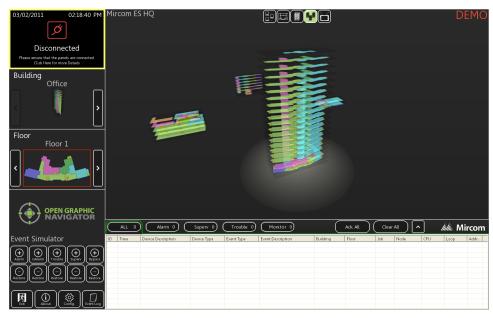


Figure 18 OpenGN Main Display Window



7. Click the **Config** button from the Main Display window. Click **Yes** to confirm that you want to enter the configuration section.

The Configuration window appears.

8. Click the **Settings** button in the lower right-hand corner of the Configuration window. The Panel Settings window appears.

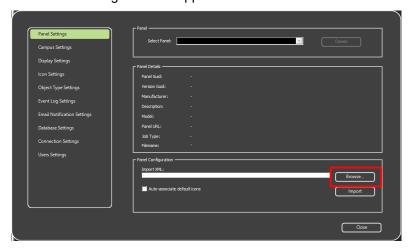


Figure 19 Panel Settings

- 9. Click **Browse** in the Panel Configuration section, and then navigate to the job file.
- 10. Select **Auto-associate default icons** if you want to associate the object icons with the existing system icon images.



Note: If you are importing a new version of a previously imported job file, uncheck **Auto-associate default icons**. Otherwise, any custom icon settings you have made will be erased.

- 11. Click Import XML.
- 12. If the job already exists, a window appears asking you if you want to update the stored version of the job with the one you are importing. Click **Yes**.

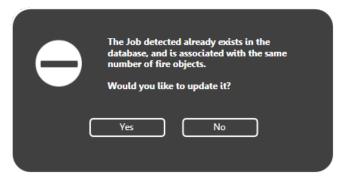


Figure 20 Update Job Confirmation



1.5 Get the JobUniqueID and JobVersion

- 1. Locate the job file that you saved in section 1.3.
- 2. Right-click the job file and select **Open with > Wordpad**.
- 3. Search for JobUniqueID.
- 4. Leave the file open; you will need to copy and paste this information in the next step.

```
<JobInfo JobUniqueID="1fbc3f3a861f4f8aba7b1496f929e203"
JobVersion="211fc778945540a895c7e092d2c0eac4"
ProductType="FX-3500" Tag="Sample Job 3">
```

Figure 21 Example JobUniqueID and JobVersion from the job file

1.6 Configure the OpenGN Gateway

The OpenGN Gateway communicates between the FX-3500/FX-3318 and OpenGN.

 If the OpenGN Gateway is not running, double-click the Open Graphic Navigator Gateway icon.



Figure 22 OpenGN Gateway



2. Click the + button. 🕂

The Adapter Configuration window appears.

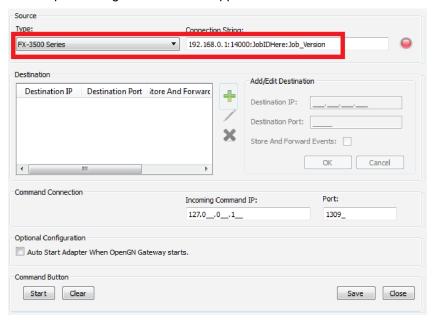


Figure 23 Adapter Configuration Window



3. Enter the following information.

Туре	FX-3500 Series	
Connection String	The connection string consists of 4 pieces of information separated by colons:	
	The IP address of the ARW-VESP211: you assigned this in section 1.2 on page 2.	
	• The port: 14000	
	Job Unique Id: copy and paste the JobUniqueID from the job file (section 1.5 on page 13).	
	Job Version: copy and paste the JobVersion from the job file (section 1.5 on page 13).	
	For example, if the IP address is 10.10.8.37, and the Job Unique Id and Job Version are the ones shown in section 1.5, then the connection string is:	
	10.10.8.37:14000:1fbc3f3a861f4f8aba7b1496f929e2 03: 211fc778945540a895c7e092d2c0eac4	

4. Click the green button — beside Destination, and then provide the following information:

Destination IP	The IP address of the OpenGN computer. If the OpenGN Gateway and OpenGN are on the same computer, use 127.0.0.1.
Destination Port	1209
Store and Forward Events	Reserved for future use.

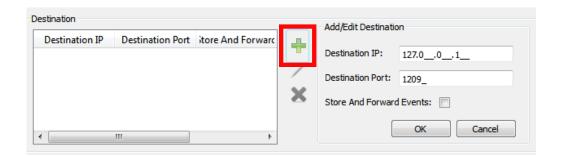


Figure 24 Destination



5. Under **Command Connection**, provide the following information:

Incoming Command IP	The IP address of the computer that the OpenGN Gateway is on. If the OpenGN Gateway and OpenGN are on the same computer, use 127.0.0.1.
Port	1309. This must be a different port than the port listed above.

Command Connection	Incoming Command IP:	Port:
	127.001	1309_

Figure 25 Command Connection

- 6. Click **Auto Start Adapter When OpenGN Gateway Starts** if you want the OpenGN Gateway to connect automatically with these settings when it starts.
- 7. Click Save.
- Select the adapter you created, and then click the green arrow icon:When OpenGN is connected, the adapter in the Adapter List is green.



Figure 26 OpenGN Gateway with One Connection



9. Double-click the adapter to view its details.

When OpenGN is connected, the icon beside **Connection String** turns from red to green, and the Destination turns green.

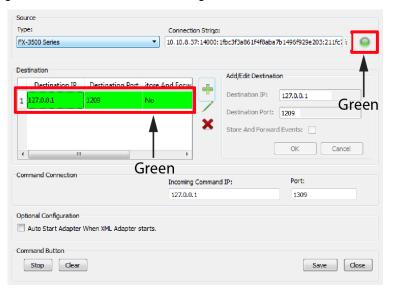


Figure 27 The OpenGN Gateway Showing a Connection

10. Start OpenGN.

