

1.0 Connecting OpenGN to an FX-2000



Attention: Before you begin, follow the instructions in LT-1113 “OpenGN Administrator’s Guide” to install OpenGN and configure the computer running OpenGN and the OpenGN Gateway.



Note: These instructions should be completed by someone who is familiar with configuring the FX-2000. See LT-657, the FX-2000 Installation and Operation manual.

You need:

- Antaira STE-501C 1-Port RS-232/422/485 To Ethernet Device Server
- Antaira software CD
- Ethernet cable (maximum 300')
- 9 pin male to female serial cable
- OpenGN version 3.3 or later
- OpenGN Gateway version 3.3 or later
- OpenGN license key
- Ethernet cable
- The FX-2000 Config Utility version 2.3.30 or later
- The FX-2000 Fire Alarm Control Panel with firmware version 2.14.6

1.1 Connect the Antaira STE-501C

1. Connect the 9 pin serial cable to the COM port on the Antaira STE-501C.
2. Connect the other end of the 9 pin serial cable to the RS-232 port on the FX-2000. See Figure 2.
3. Use an Ethernet cable to connect the LAN port on the Antaira STE-501C to the computer running the OpenGN Gateway.
4. Connect the Antaira STE-501C to the power.

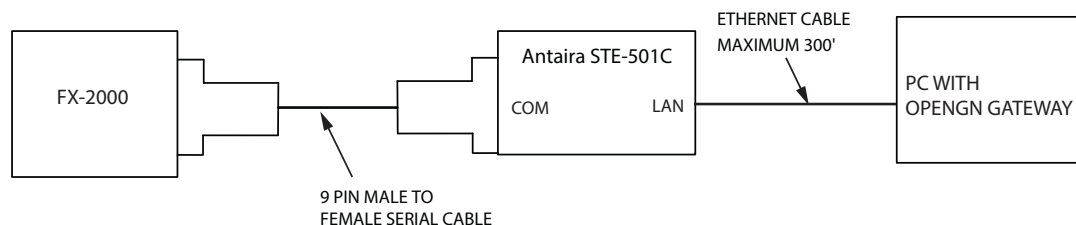


Figure 1 Connect the Antaira STE-501C to the OpenGN Gateway Computer

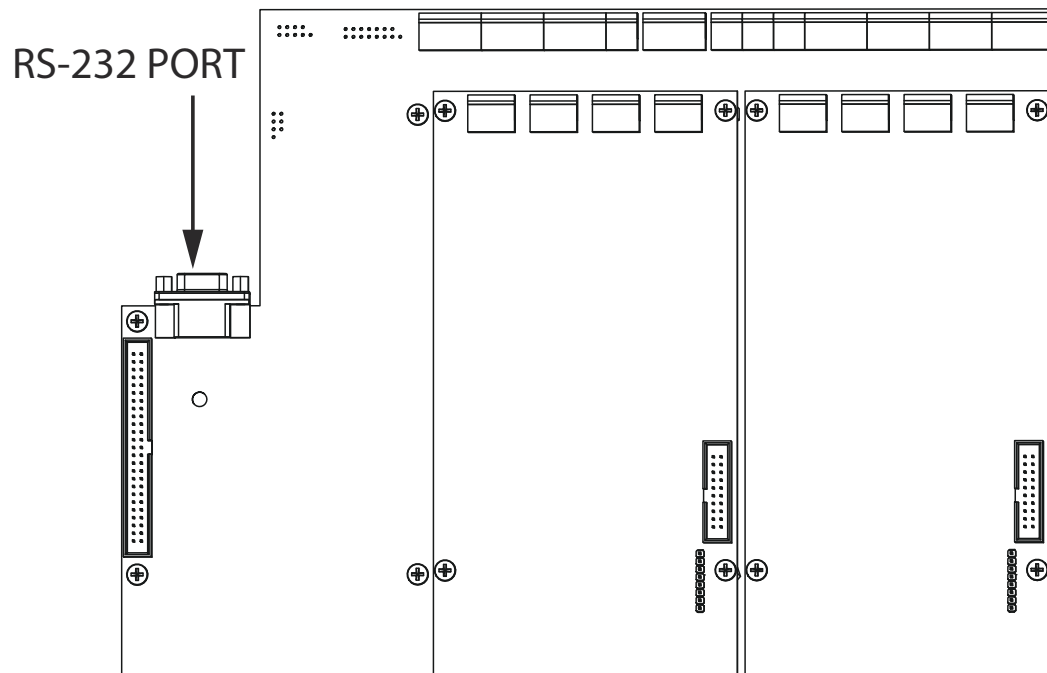


Figure 2 RS-232 Port on the FX-2000

1.2 Configure the Antaira STE-501C's TCP/IP Information

1. Insert the Antaira CD into the OpenGN Gateway computer.
2. In Windows, open the **STE_501C** folder on the CD, then open the **CONFIG** folder.
3. Double-click the **MONITOR** application.

The Antaira device appears in the Monitor window.

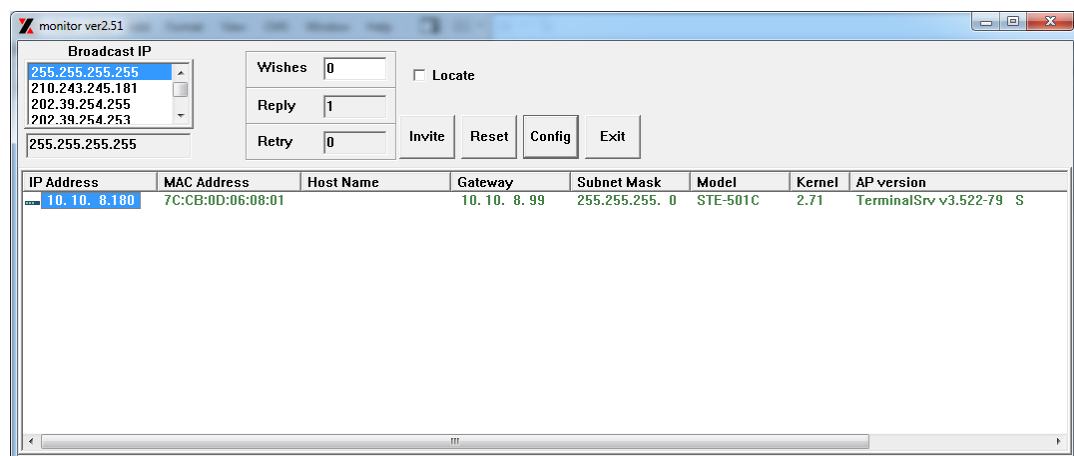


Figure 3 Antaira Monitor Application

4. Double-click the Antaira device.

A windows shows the TCP/IP information for the device.

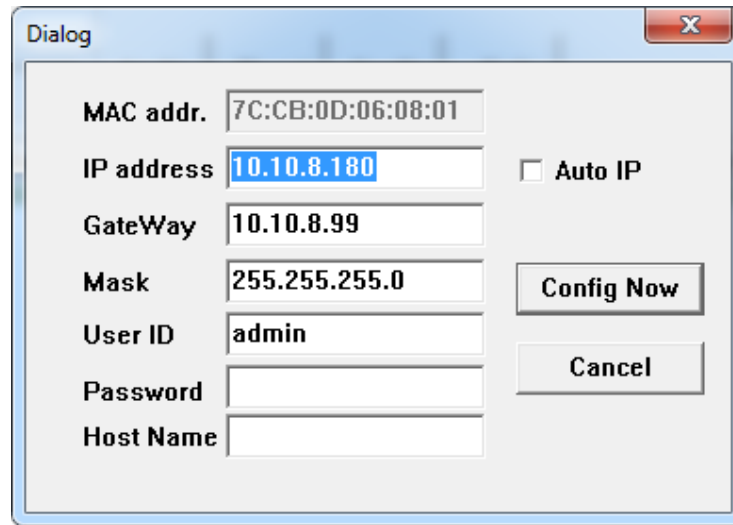


Figure 4 Antaira Device Details

5. Type the IP configuration settings for the Antaira STE-501C. Consult your network administrator for assistance.
6. Type a **User ID** and **Password** for the Antaira STE-501C, or leave them as they are. This information is for connecting to the configuration page in section 1.3 below.
7. In the **Host Name** field, type a name for the Antaira STE-501C to identify it on the network.



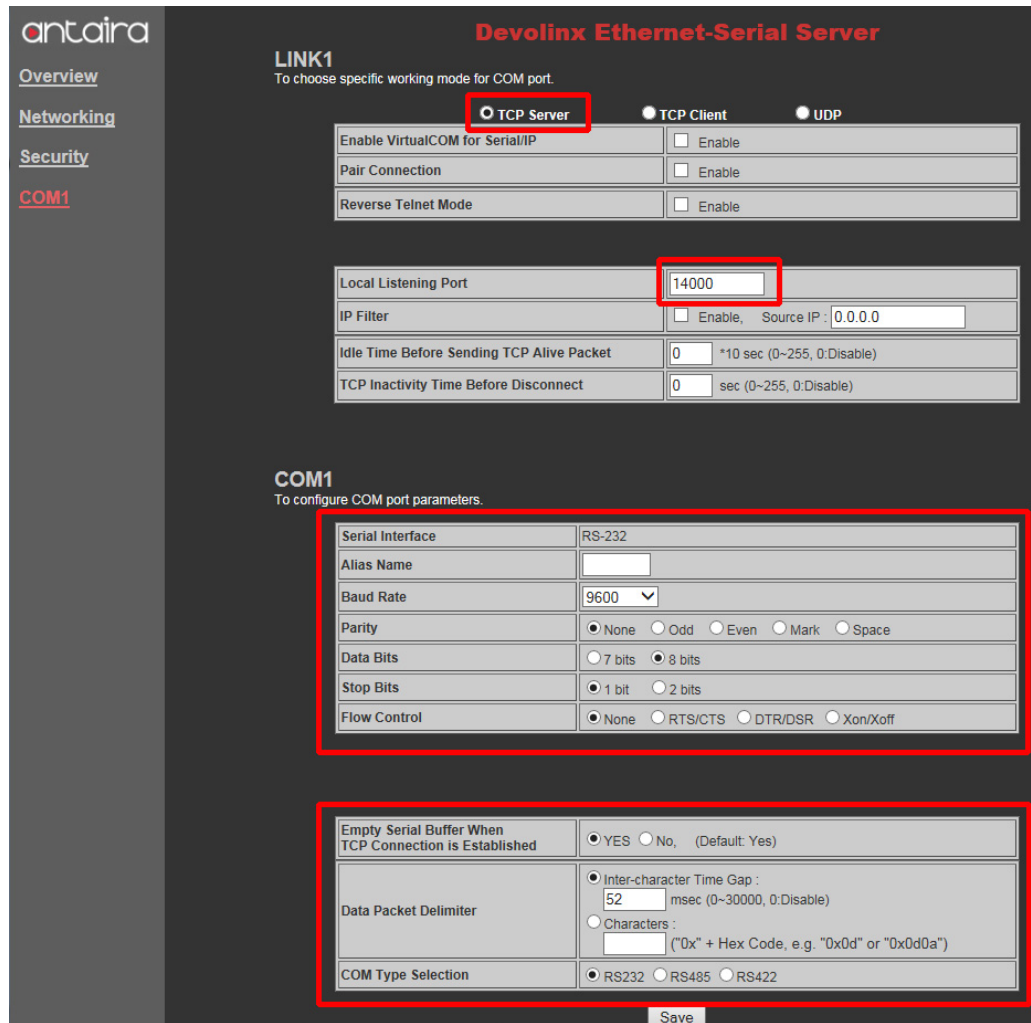
Note: To ensure a constant connection to OpenGN, you must assign a static IP address to the Antaira STE-501C.

8. Click **Config Now**.

1.3 Configure the Antaira STE-501C

1. Open a Web browser and type the IP address of the Antaira STE-501C, and then press Enter.
2. The default User ID is **admin** and the Password is blank.
The configuration page for the Antaira STE-501C appears.

- Click **COM1** on the left.



antaira

Devolinx Ethernet-Serial Server

LINK1
To choose specific working mode for COM port.

☒ **TCP Server** ☐ TCP Client ☐ UDP

Enable VirtualCOM for Serial/IP	<input type="checkbox"/> Enable
Pair Connection	<input type="checkbox"/> Enable
Reverse Telnet Mode	<input type="checkbox"/> Enable

Local Listening Port:

IP Filter: ☐ Enable, Source IP:

Idle Time Before Sending TCP Alive Packet: *10 sec (0~255, 0:Disable)

TCP Inactivity Time Before Disconnect: sec (0~255, 0:Disable)

COM1
To configure COM port parameters.

Serial Interface	RS-232
Alias Name	<input type="text"/>
Baud Rate	9600
Parity	<input checked="" type="radio"/> None <input type="radio"/> Odd <input type="radio"/> Even <input type="radio"/> Mark <input type="radio"/> Space
Data Bits	<input type="radio"/> 7 bits <input checked="" type="radio"/> 8 bits
Stop Bits	<input checked="" type="radio"/> 1 bit <input type="radio"/> 2 bits
Flow Control	<input checked="" type="radio"/> None <input type="radio"/> RTS/CTS <input type="radio"/> DTR/DSR <input type="radio"/> Xon/Xoff

Empty Serial Buffer When TCP Connection is Established	<input checked="" type="radio"/> YES <input type="radio"/> No, (Default: Yes)
Data Packet Delimiter	<input checked="" type="radio"/> Inter-character Time Gap : <input type="text" value="52"/> msec (0~30000, 0:Disable) <input type="radio"/> Characters : <input type="text"/> ("0x" + Hex Code, e.g. "0x0d" or "0x0d0a")
COM Type Selection	<input checked="" type="radio"/> RS232 <input type="radio"/> RS485 <input type="radio"/> RS422

Save

Figure 5 Configuration page for Antaira STE-501C

- Enter the following information:

TCP Server	Select this button
Local Listening Port	14000
Baud Rate	9600
Parity	None
Data Bits	8 bits
Stop Bits	1 bit
Flow Control	None
Empty Serial Buffer When TCP Connection is Established	Yes
Data-Packet Delimiter	Select Inter-character Time Gap and type 52
COM Type Selection	RS232

- Click **Save** at the bottom of the window.

1.4 Export the Job File

You need:

- The FX-2000 Config Utility version 2.3.30 or later
1. Connect the FX-2000 to the computer that has the FX-2000 Config Utility installed on it.
 2. In the FX-2000 Config Utility, open the job for the FX-2000 panel.
 3. Select **Main Display**.
 4. Select **Enable Printer Heart Beat**.
 5. Under **Locale**, select **English** in the Language menu.
 6. In the **Time Format** menu, select the date in the format **Month Day, Year hour:minute** as shown in Figure 6.

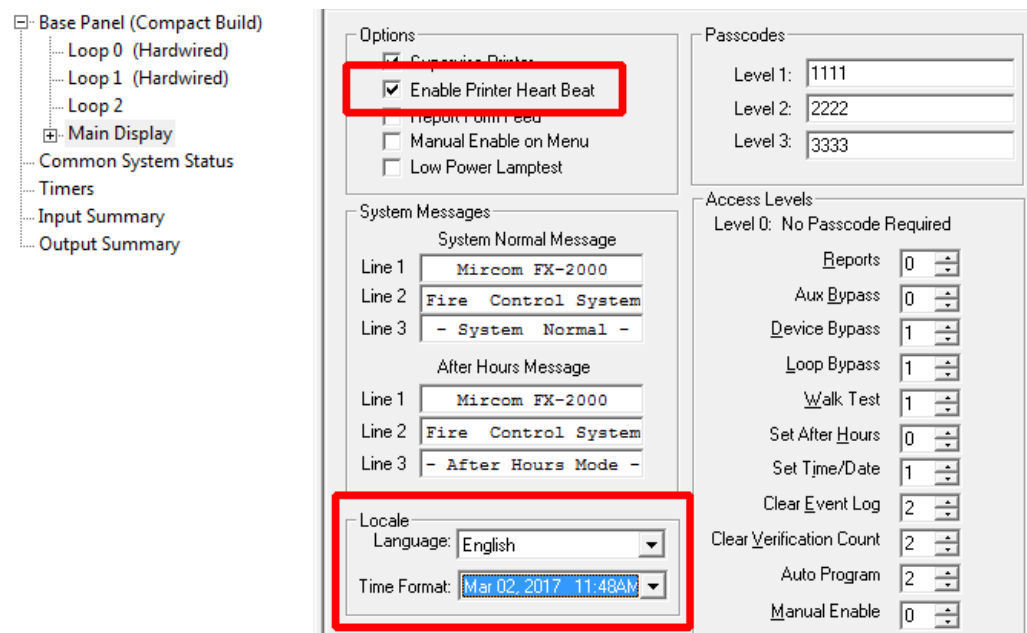


Figure 6 FX-2000 Config Utility

7. Send the job to the panel.
8. Click **Job > Extract Job**.

The **Specify Database File to Extract Into** window appears.

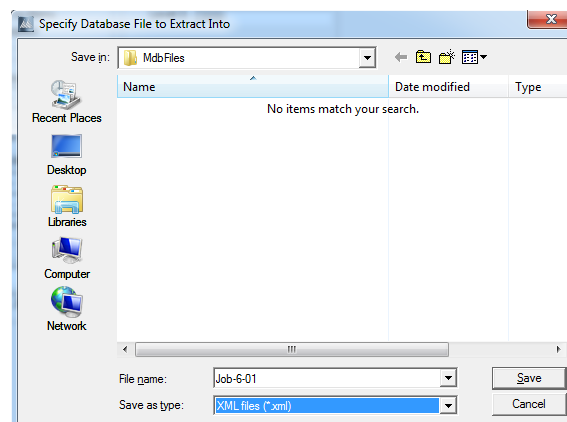


Figure 7 Specify Database File to Extract Into

9. In the **Save as type** menu, click **XML Files (*.xml)**, and then click **Save**.
10. In the XML Export window, select **OpenGN Ph 11 Config.xml**, and then click **OK**.

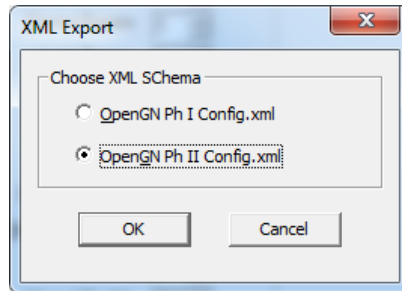


Figure 8 XML Export

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

1.5 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.

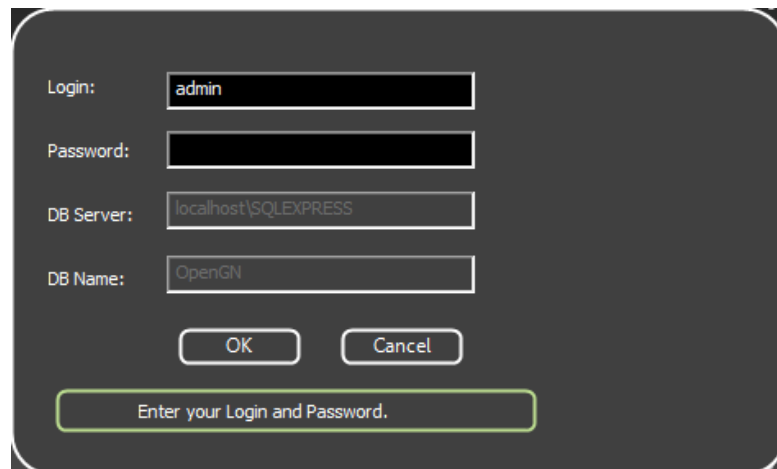


Figure 9 Login Window

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

The OpenGN Main Display window appears.

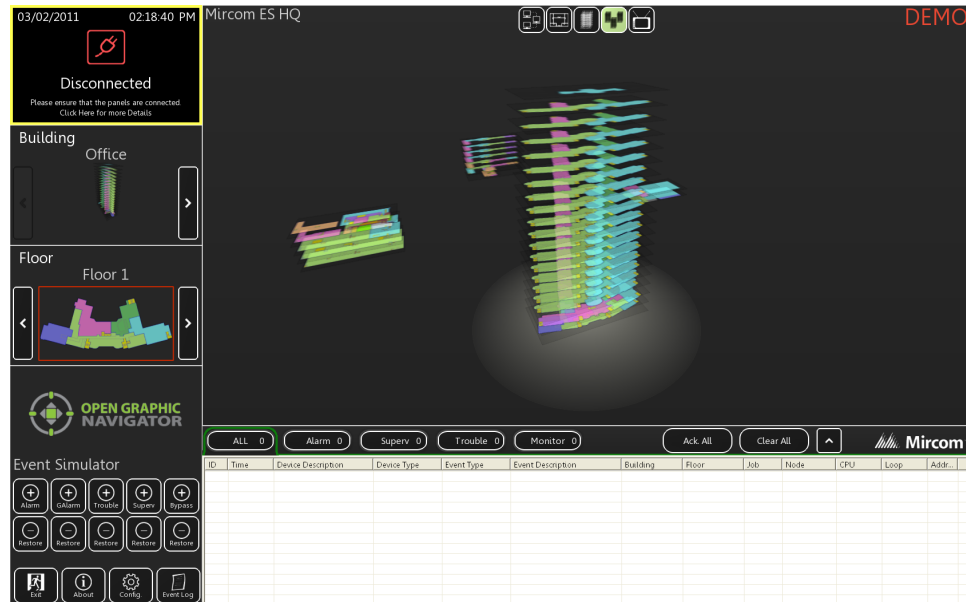


Figure 10 OpenGN Main Display Window

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.

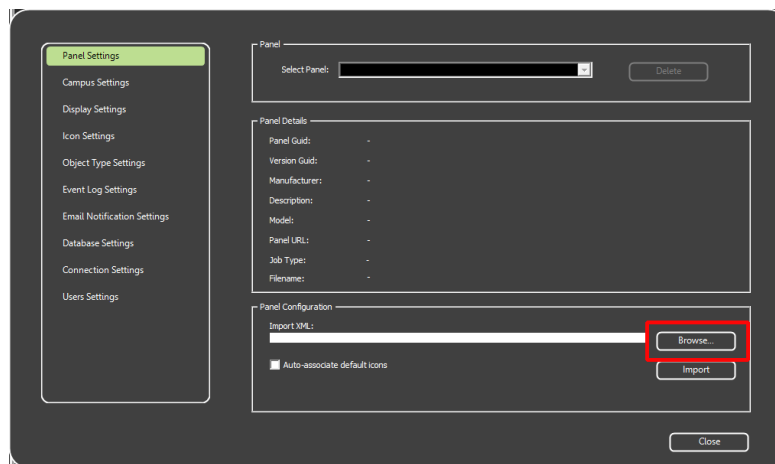


Figure 11 Panel Settings

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**.

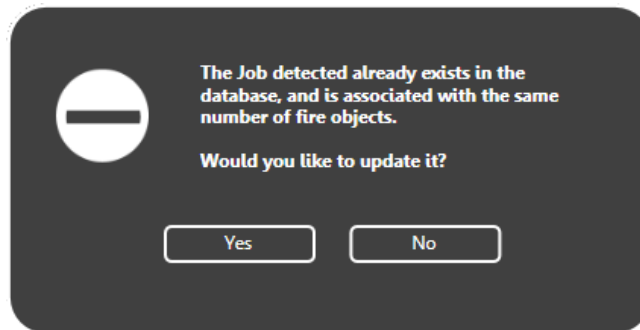


Figure 12 Update Job Confirmation

1.6 Get the JobUniqueID and JobVersion

1. Locate the job file that you saved in section 1.4.
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-2000" Tag="Sample Job 3">
```

Figure 13 Example JobUniqueID and JobVersion from the job file

1.7 Configure the OpenGN Gateway

1. Right-click the **Open Graphic Navigator Gateway** icon, then select **Run as Administrator**.

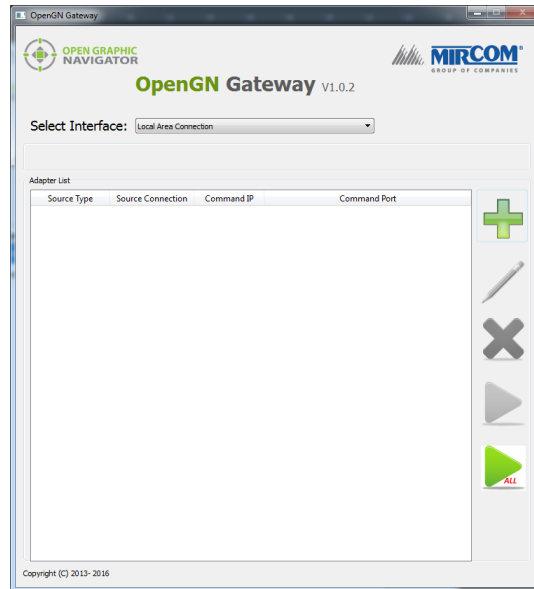



Figure 14 OpenGN Gateway

2. Click the + button. 

The Adapter Configuration window appears.

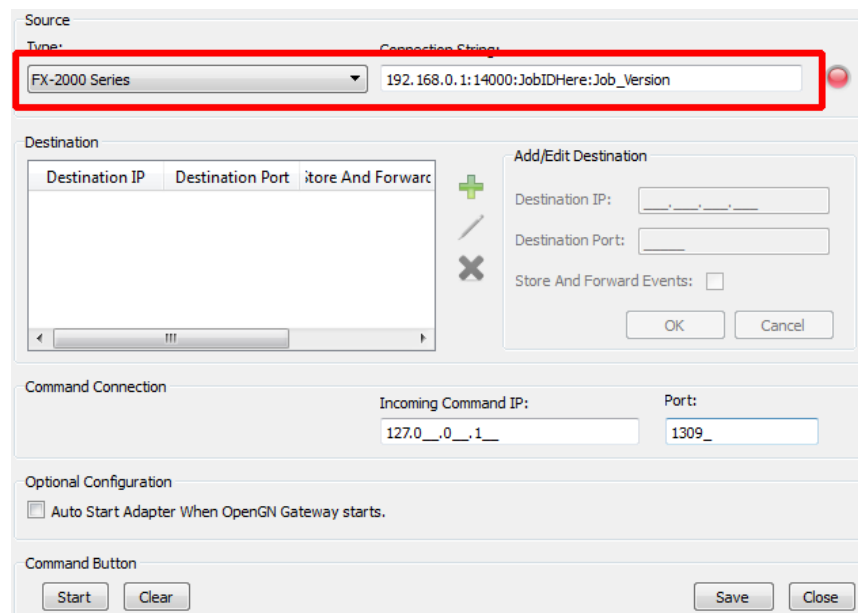



Figure 15 Adapter Configuration Window

3. Enter the following information.

- | | |
|--------------------------|--|
| Type | FX-2000 Series |
| Connection String | <p>The connection string consists of 4 pieces of information separated by colons:</p> <ul style="list-style-type: none"> • The IP address of the Antaira STE-501C: 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 1.6 on page 8). • Job Version: copy and paste the JobVersion from the job file (section 1.6 on page 8). |

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 1.6, then the connection string is:

10.10.8.37:14000:1fbc3f3a861f4f8aba7b1496f929e203:211fc778945540a895c7e092d2c0eac4

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. |

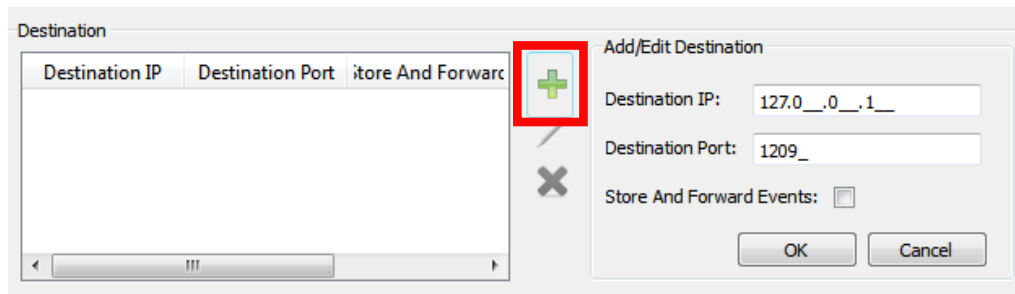


Figure 16 Destination

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.

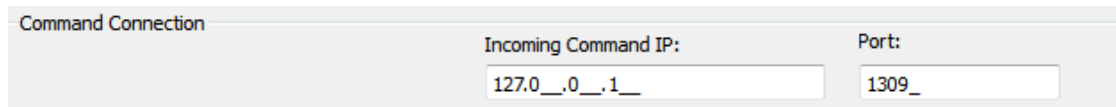


Figure 17 Command Connection

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**.
8. In the Windows taskbar, right-click the **OpenGN Gateway** icon, and then select **Close window**.

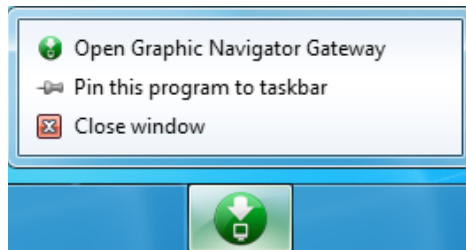



Figure 18 Close OpenGN Gateway

9. Restart the OpenGN Gateway: right-click the **Open Graphic Navigator Gateway** icon, then select **Run as Administrator**.
 10. Select the adapter you created, and then click the green arrow icon: 
- When OpenGN is connected, the adapter in the Adapter List is green.

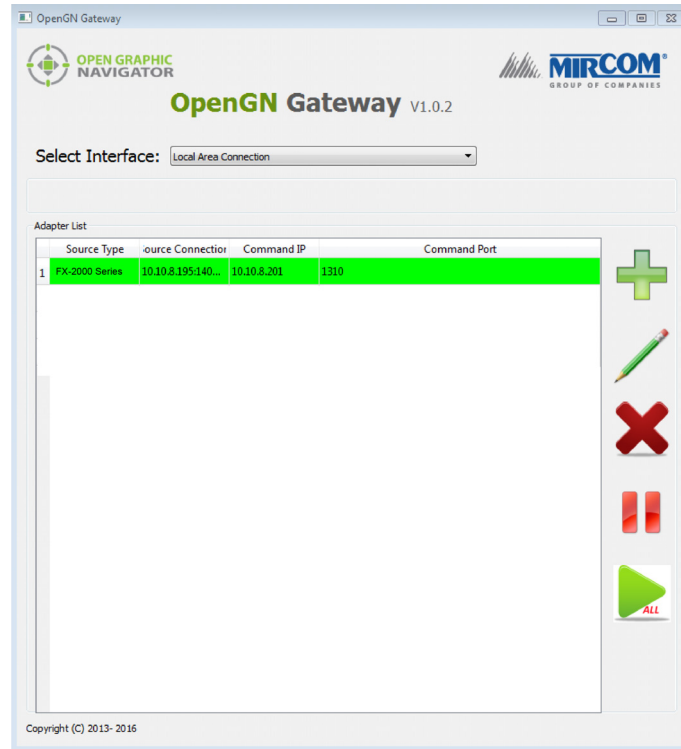


Figure 19 OpenGN Gateway with One Connection

11. 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.

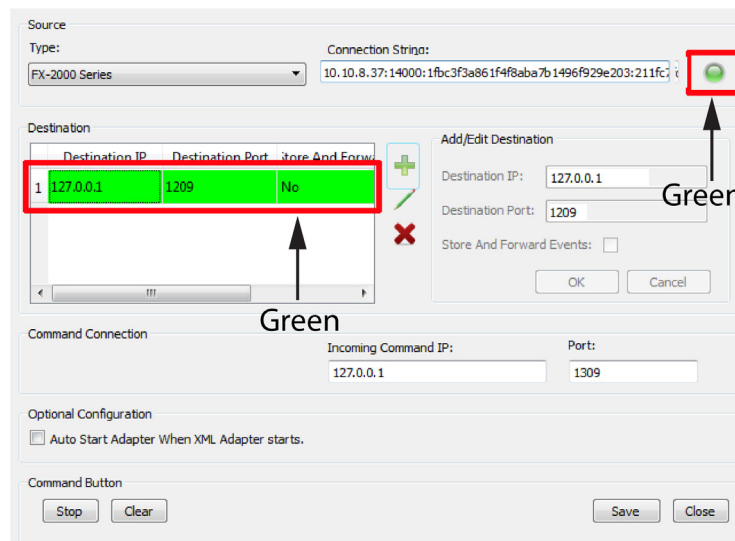


Figure 20 The OpenGN Gateway Showing a Connection

12. Start OpenGN.



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