

# 1.0 Connecting OpenGN to an MR-2200/2900



**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 familiar with configuring an MR-2200/2900. See LT-2010 the MR-2900 Installation Manual, LT-2011 the MR-2900 Programming Manual, LT-2000 the MR-2100/2200 Installation Manual, and LT-2001 the MR-2100/2200 Programming Manual.

You need:

- Antaira STE-501C 1-Port RS-232/422/485 To Ethernet Device Server
- Antaira software CD
- Antaira PARANI-DB9FTB DB9F to TerminalBlock Adapter
- Modul-R Human Interface (MHI) application version 22.0f or later
- Secutron\_ConfigXML application
- OpenGN version 3.2 or later
- OpenGN Gateway version 3.2 or later
- OpenGN license key
- Ethernet cable

## 1.1 Connect the Antaira STE-501C

This section explains how to connect 4 components:

- MR-2200/2900
- Antaira STE-501C
- OpenGN Gateway (which is installed as part of OpenGN)
- OpenGN (this can be on the same computer as the OpenGN Gateway)

The Antaira STE-501C communicates between the MR-2200/2900 and the OpenGN Gateway.

The Antaira STE-501C can be connected directly to the OpenGN Gateway computer with an Ethernet cable, or it can communicate over a local area network.

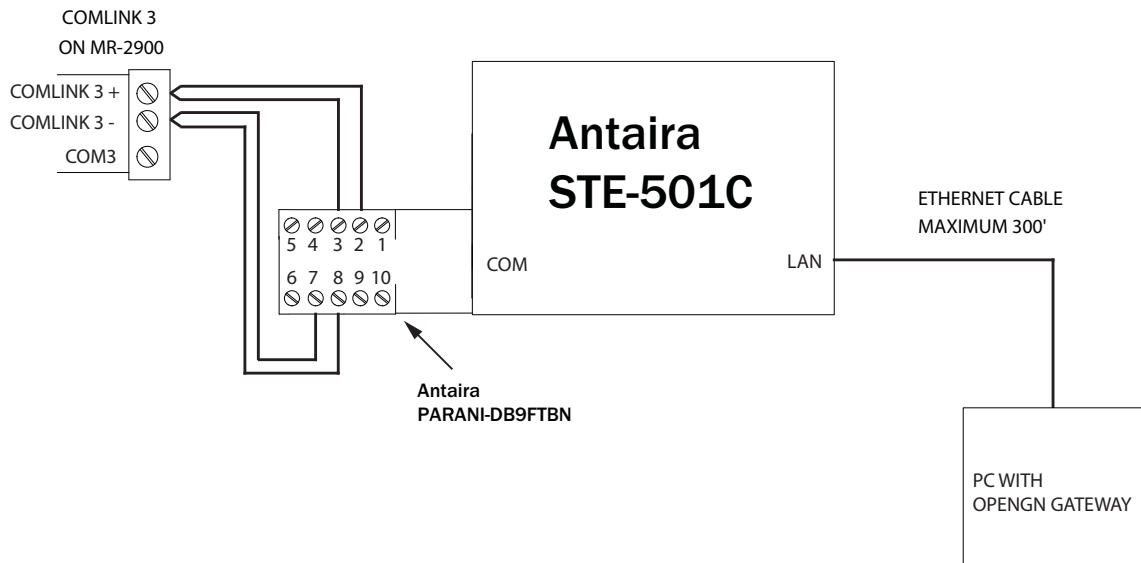
1. Connect the Antaira PARANI-DB9FTB to the COM port on the Antaira STE-501C.
2. Connect pins 2 and 3 from the Antaira PARANI-DB9FTB to the COMLINK 3 + port on the MR-2200/2900 as shown in Figure 1.
3. Connect pins 7 and 8 from the Antaira PARANI-DB9FTB to the COMLINK 3 - port on the MR-2200/2900 as shown in Figure 1.
4. Connect the Antaira STE-501C to the power.

If you want to connect the Antaira STE-501C to the OpenGN Gateway computer directly:

- Use an Ethernet cable to connect the Antaira STE-501C to the computer running the OpenGN Gateway.

If you have a local area network:

- Use an Ethernet cable to connect the Antaira STE-501C to the same network that the OpenGN Gateway computer is connected to.

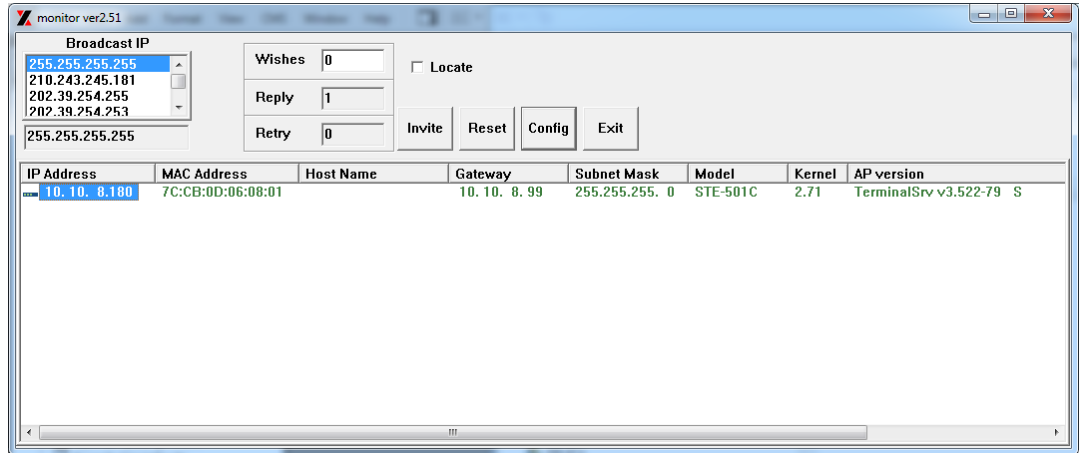


**Figure 1** Connecting the Antaira STE-501C to the OpenGN Gateway Computer Directly

## 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.

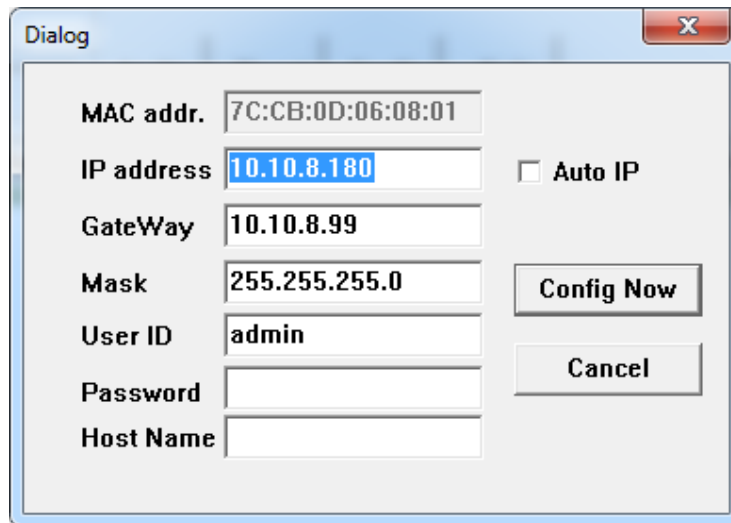
The Antaira device appears in the Monitor window.



**Figure 2 Antaira Monitor Application**

4. Double-click the Antaira device.

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



**Figure 3 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.



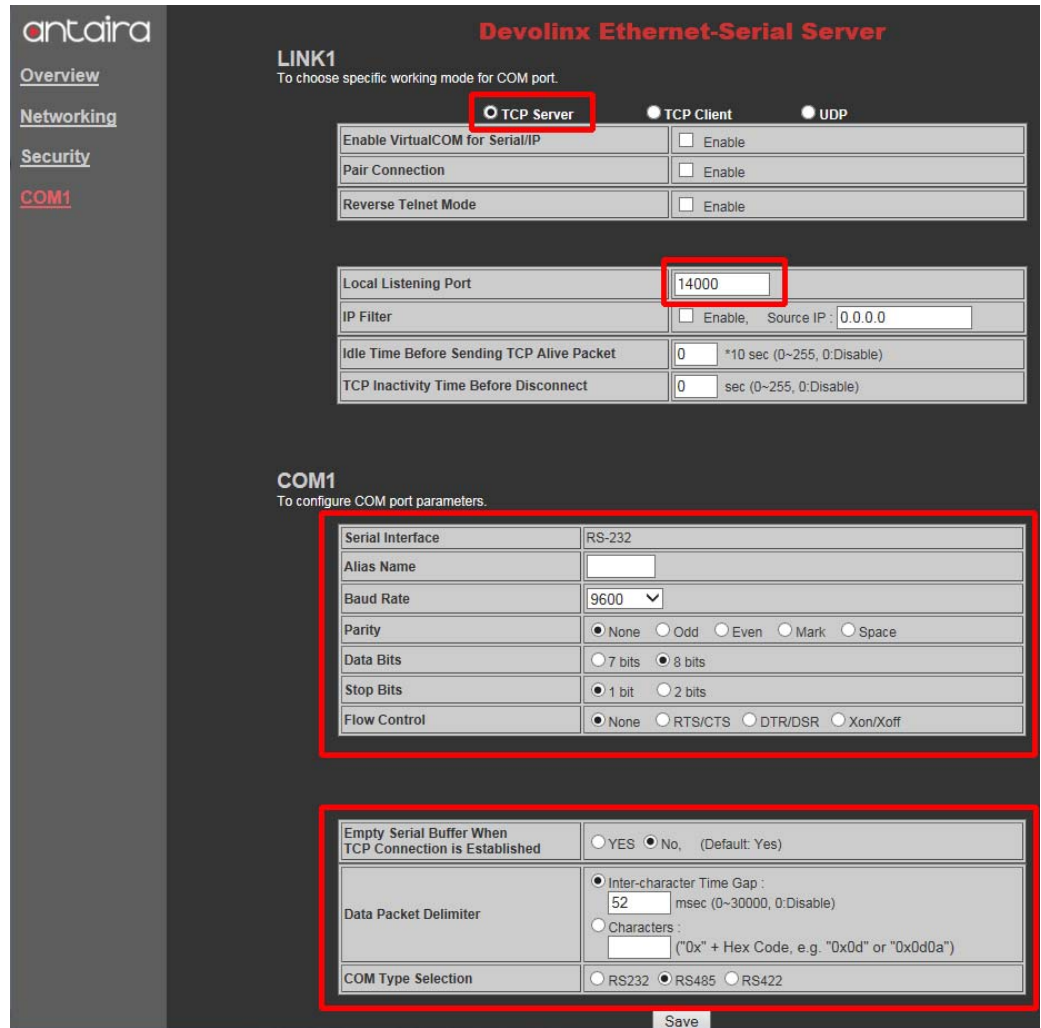
**Note:** To ensure a constant connection to OpenGN, you must assign a static IP address to the Antaira STE-501C.

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.

3. 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 type="radio"/> YES <input checked="" 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 type="radio"/> RS232 <input checked="" type="radio"/> RS485 <input type="radio"/> RS422

Save

**Figure 4 Configuration page for Antaira STE-501C**

4. Enter the following information:

<b>TCP Server</b>	Select this button
<b>Local Listening Port</b>	14000
<b>Baud Rate</b>	9600
<b>Parity</b>	None
<b>Data Bits</b>	8 bits
<b>Stop Bits</b>	1 bit
<b>Flow Control</b>	None
<b>Empty Serial Buffer When TCP Connection is Established</b>	No
<b>Data-Packet Delimiter</b>	Select <b>Inter-character Time Gap</b> and type <b>52</b>
<b>COM Type Selection</b>	RS485

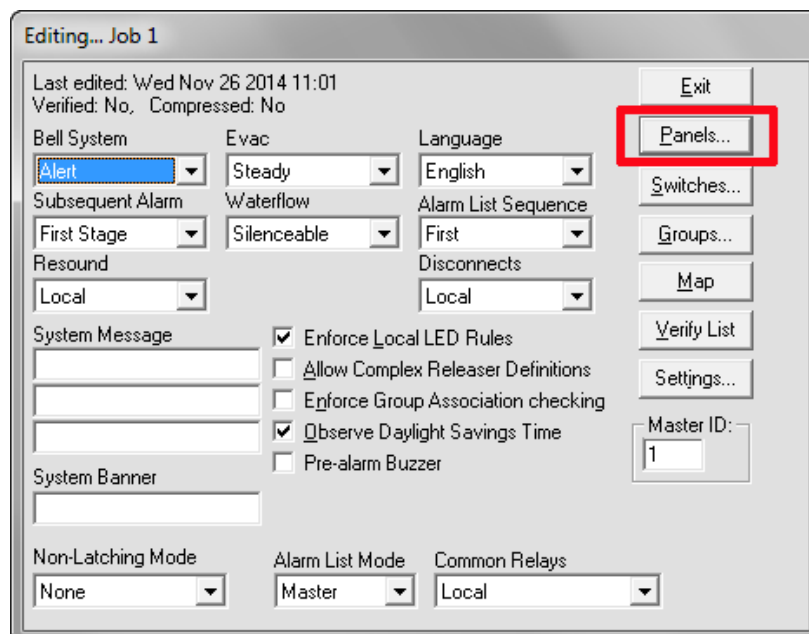
5. Click **Save** at the bottom of the window.

## 1.4 Configure the Job for the MR-2200/2900

You need:

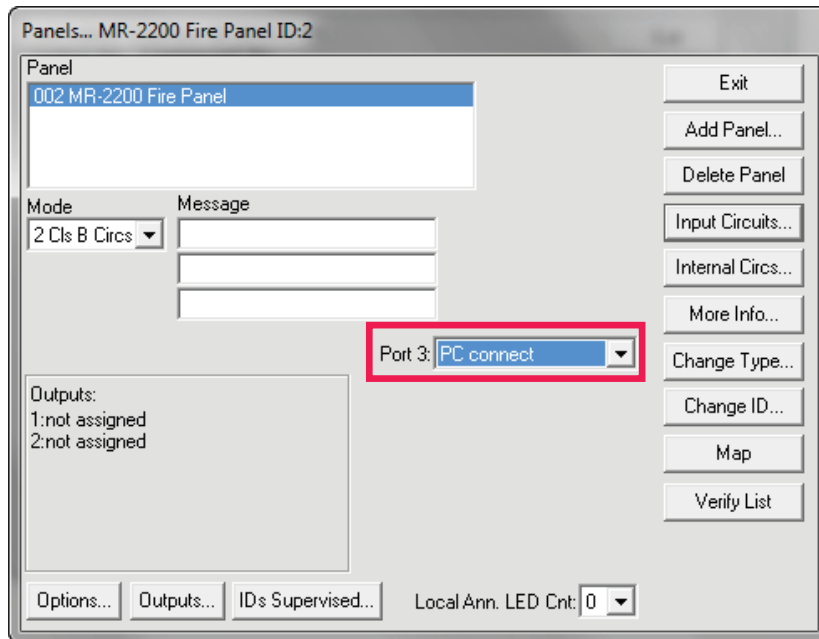
- The Modul-R Human Interface (MHI) application, version 22.0f or later
1. Connect the MR-2200/2900 to the computer that has the MHI configurator application installed on it.
  2. In the MHI application, open the job for the MR-2200/2900 panel.
  3. Click **System -> Edit**.

The Editing window appears.



**Figure 5 The Editing Window**

- Click the **Panels** button.  
The Panels window appears.

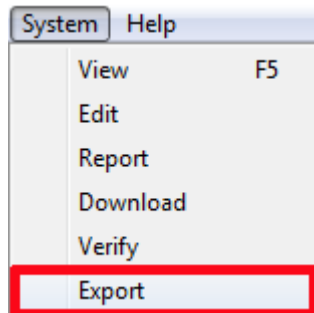


**Figure 6 The Panels Window**

- In the **Port 3** menu, select **PC connect**.
- Click **Exit** and send the job to the panel.

## 1.5 Export the Configuration File

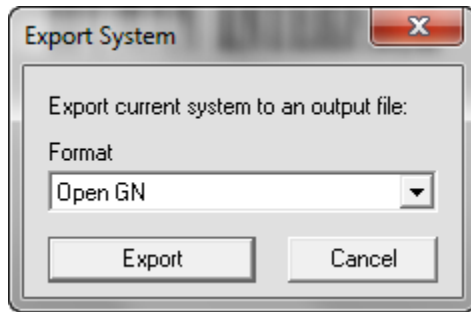
- In the MHI application, click **System -> Export**.



**Figure 7 Export**

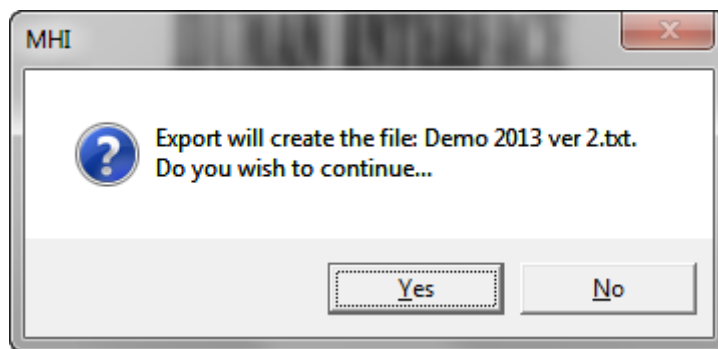
The Export System window appears.

2. Select **OpenGN**, and then click **Export**.



**Figure 8** OpenGN File Type

3. Click **Yes**.



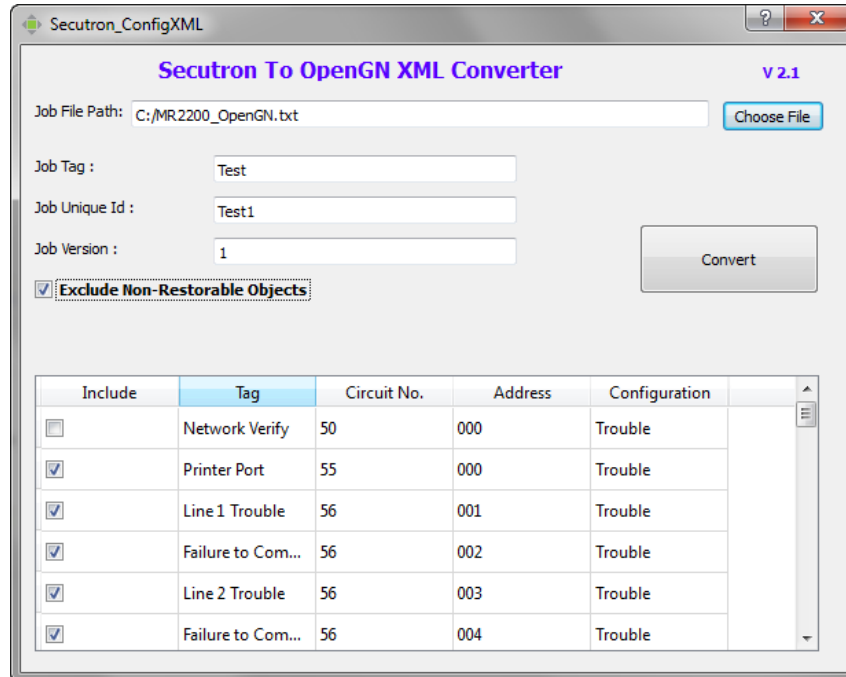
**Figure 9** Export File Confirmation



## 1.6 Convert the Configuration File to XML Format

You need:

- The Secutron\_ConfigXML application
1. Open the Secutron\_ConfigXML application.



**Figure 10 The Secutron to OpenGN XML Converter**

2. Enter the following information.

<b>Job File Path</b>	Select the text file you created in section 1.5.
<b>Job Tag</b>	A description of the job.
<b>Job Unique Id</b>	A name to identify the job. You can define this yourself. Make a note of this; you will need it later.
<b>Job version</b>	The version of the job. You can define this yourself. Make a note of this; you will need it later.
<b>Exclude Non-Restorable Objects</b>	Select this checkbox in order to ignore events from system status devices that are non-restorable, for example low battery troubles. Restorable system status devices can also be excluded or included individually by selecting the checkboxes in the <b>Include</b> column.



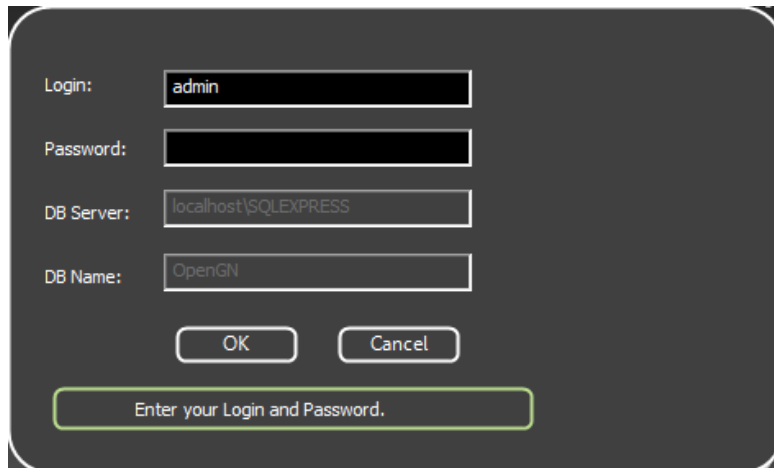
**Note:** Make a note of the **Job Unique Id** and **Job version**. You will need them later.

3. Click the **Convert** button. Save the XML file by providing a name and location.

## 1.7 Import the XML Configuration File into OpenGN

1. Transfer the XML 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.

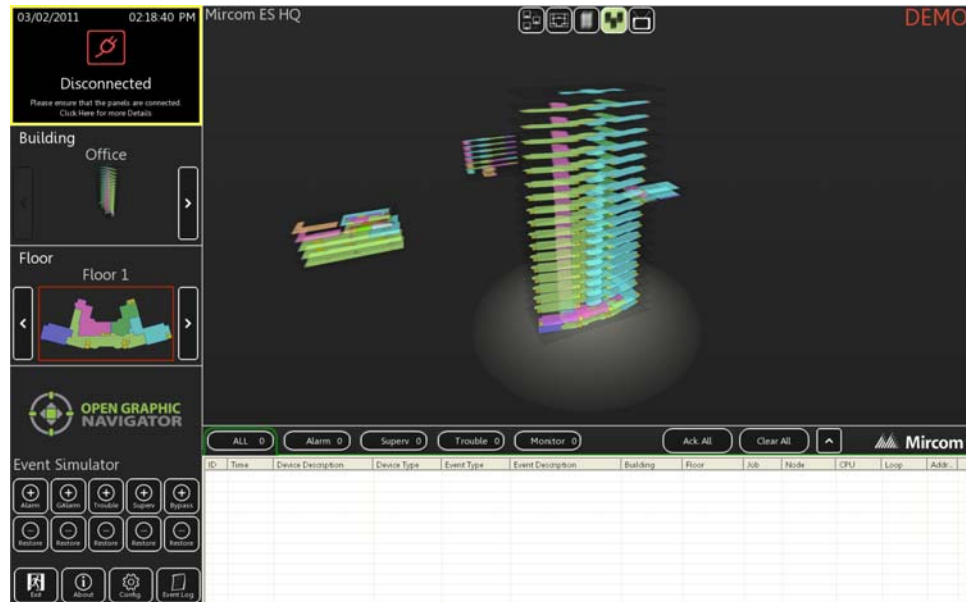
The Login window appears.



**Figure 11 Login Window**

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

The OpenGN Main Display window appears.



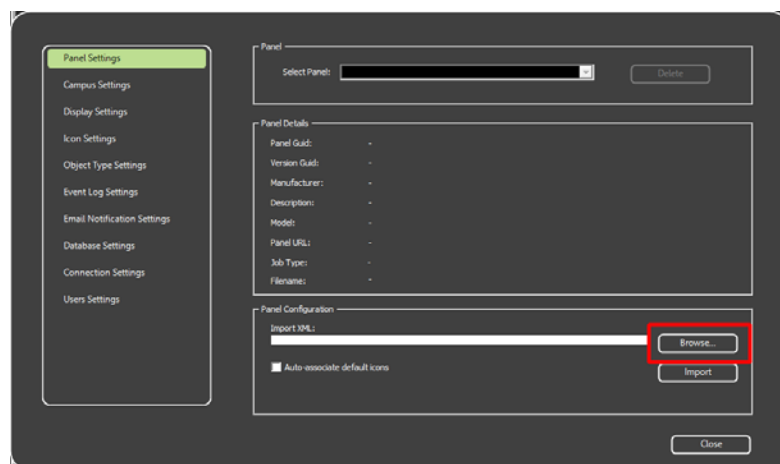
**Figure 12 OpenGN Main Display Window**

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.



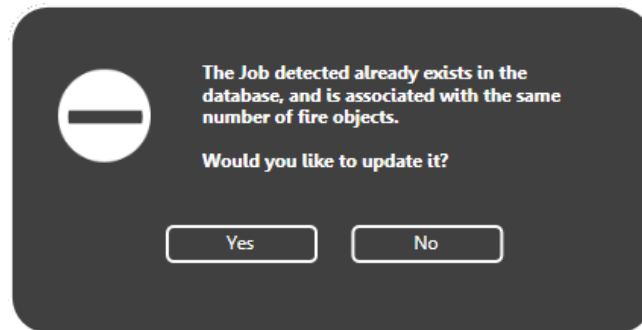
**Figure 13 Panel Settings**

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 14 Update Job Confirmation**

13. Restart OpenGN.


## 1.8 Configure the OpenGN Gateway

The OpenGN Gateway communicates between the MR-2200/2900 and OpenGN.

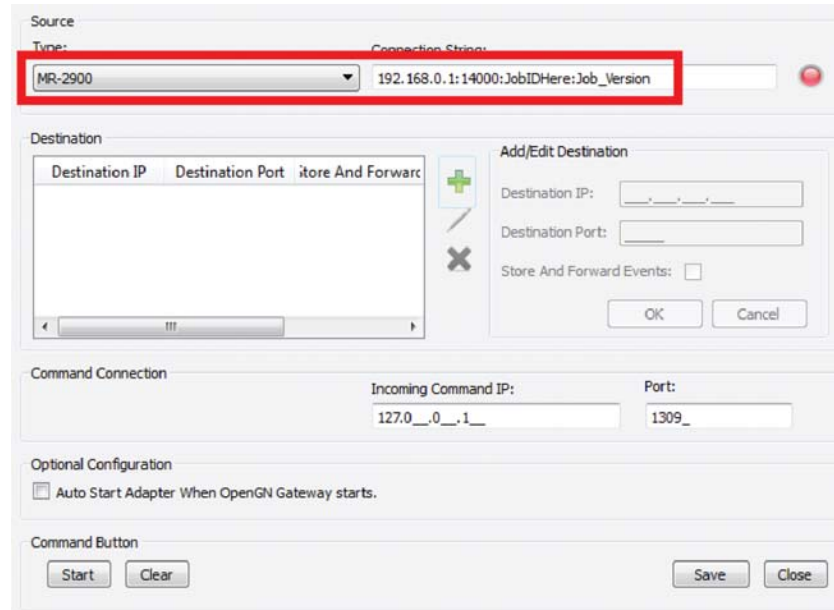
1. Right-click the **Open Graphic Navigator Gateway** icon, then select **Run as Administrator**.



**Figure 15 OpenGN Gateway**

2. Click the + button. 

The Adapter Configuration window appears.




The screenshot shows the Adapter Configuration window with the following details:

- Source:** Type: MR-2900; Connection String: 192.168.0.1:14000:JobIDHere:Job\_Version
- Destination:** A table with columns: Destination IP, Destination Port, Store And Forward. To the right is an 'Add/Edit Destination' panel with fields for Destination IP, Destination Port, and a checkbox for Store And Forward Events.
- Command Connection:** Incoming Command IP: 127.0.0.1; Port: 1309
- Optional Configuration:**  Auto Start Adapter When OpenGN Gateway starts.
- Command Button:** Start, Clear, Save, Close

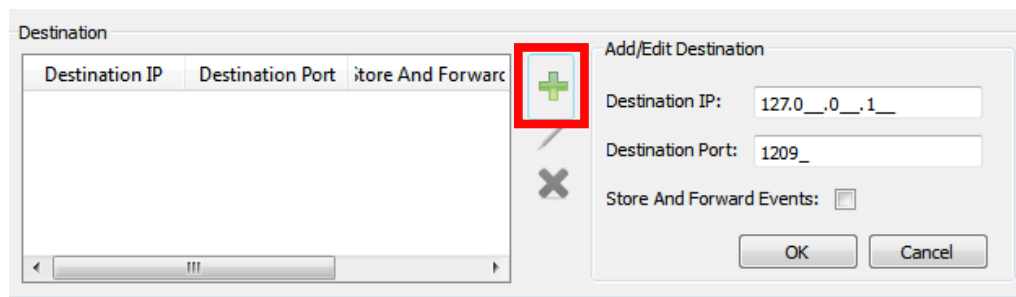
**Figure 16 Adapter Configuration Window**

3. Enter the following information.

<b>Type</b>	<b>MR-2900</b>
<b>Connection String</b>	<p>The connection string consists of 4 pieces of information separated by colons:</p> <ul style="list-style-type: none"> <li>• The IP address of the Antaira STE-501C: you assigned this in section 1.2 on page 3.</li> <li>• The port: <b>14000</b></li> <li>• <b>Job Unique Id</b>: the <b>Job Unique Id</b> that you created in section 1.6 on page 9.</li> <li>• <b>Job Version</b>: the <b>Job Version</b> that you created in section 1.6 on page 9.</li> </ul> <p>For example, if the IP address is <b>10.10.8.37</b>, the Job Unique Id is <b>Job1</b>, and the Job Version is <b>1</b>, then type 10.10.8.37:14000:Job1:1</p>

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

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



**Figure 17 Destination**

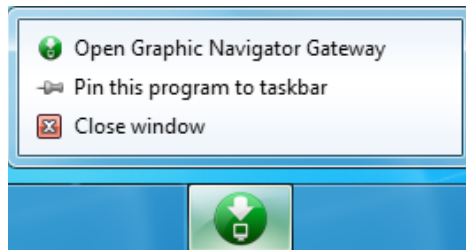
5. Under **Command Connection**, provide the following information:

<b>Incoming Command IP</b>	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.
<b>Port</b>	<b>1309</b> . This must be a different port than the port listed above.

Command Connection	
Incoming Command IP:	Port:
127.0__0__.1__	1309_


**Figure 18 Command Connection**

- Click **Auto Start Adapter When OpenGN Gateway Starts** if you want the OpenGN Gateway to connect automatically with these settings when it starts.
- Click **Save**.
- In the Windows taskbar, right-click the **OpenGN Gateway** icon, and then select **Close window**.



**Figure 19 Close OpenGN Gateway**

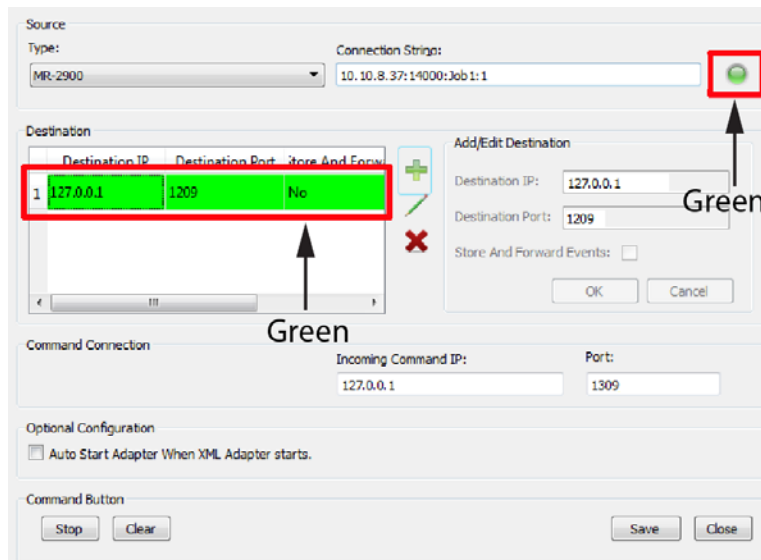
- Restart the OpenGN Gateway: right-click the **Open Graphic Navigator Gateway** icon, then select **Run as Administrator**.

- 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 20 OpenGN Gateway with One Connection**

- 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 21 The OpenGN Gateway Showing a Connection**

- Start OpenGN.





# OPEN GRAPHIC NAVIGATOR

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