![FREEWAVE]

WC45i-GW-P Ethernet Gateway Quick Start Guide

Thank you for purchasing the WC45i-GW-P.

This **Quick Start Guide** provides brief procedures for the hardware installation and configuration of the WC45i-GW-P.

> **Note**: For more detailed installation, connection, and configuration procedures, download the WC45i-GW-P User Manual from the http://support.freewave.com/ website.
> Registration is required to use this website.

The basic steps are:

Included Equipment

Included Equipment - WC45i-GW-P	
Qty	**Description**
1	WC45i-GW - Gateway with Modbus Interface
1	WC45i-GW-P - Ethernet Interface Module with Modbus TCP connection
1	WC45i-GW-P Ethernet Gateway Quick Start Guide

User-supplied Equipment

- Small, flathead screwdriver
- Mounting equipment for the WC45i-GW-P.
- CAT5e / CAT6 Ethernet cable
- DC Adapter Power Supply (+6 to +30VDC)
- Barrel connector with Ground and Power flying leads
- Optional: WC45i-GW or WC45i-GW-DIN
- Computer for WAVECONTACT device configuration.

Power and Gateway Connections

> **Important!**: Verify the items listed in **Included** and **User-supplied Equipment** section are available before starting this procedure.

1. All wiring should be neat and orderly.
2. On the WC45i-GW-P terminal blocks:
   a. Connect the configuration wires of the Gateway to their respective color-designated screw terminal connections.
   b. Use the screw terminal connection to connect the Power Source from an external power supply of +6 to +30VDC.
   c. Use the GND screw terminal connection to connect the External power ground.
3. Connect the CAT5e / CAT6 Ethernet cable to the WC45i-GW-P RJ-45 port and the Ethernet connection on the computer.
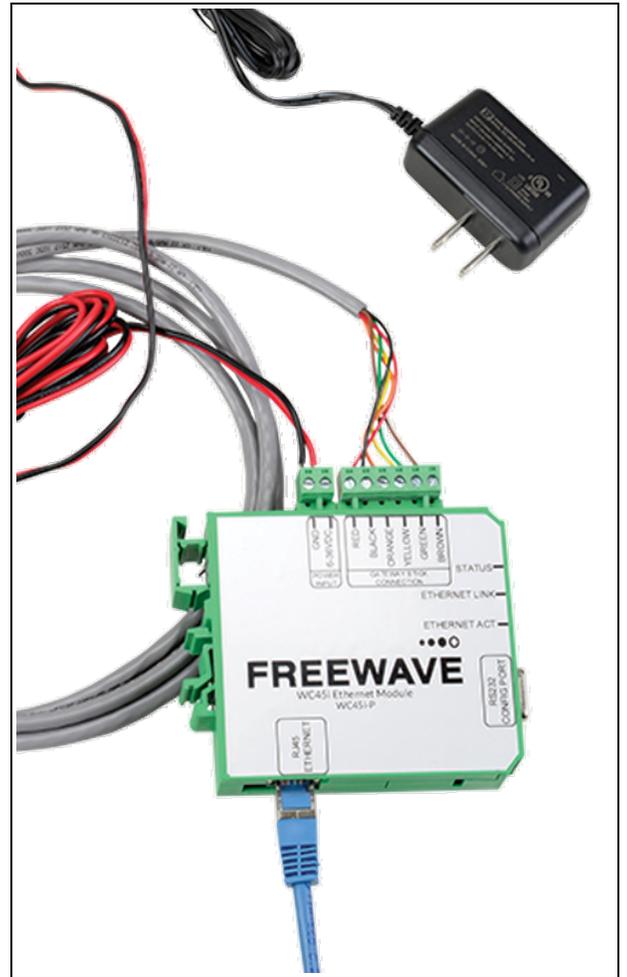   The WC45i-GW-P connections are similar to and Figure 1:

Figure 1: WC45i-GW-P Ethernet Gateway Connected to a WC45i-GW - close-up

4. If this is the first time the WC45i-GW-P is installed, wait for the drivers to install.

> **Important!**: Depending on the computer and connection, the driver installation can take 3-6 minutes.

5. Continue with WC Toolkit Installation (on page 1).
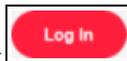
WC Toolkit Installation

> **Note**: The images in this procedure are for Windows® 7 and/or Firefox®. The dialog boxes and windows appear differently on each computer.

1. Open the **FreeWave Support** site at http://support.freewave.com/.

> **Important!**: Registration is required to use this website.

2. Enter the **User Name** and **Password**.

3. Click **Log In**.
   A successful Login message briefly appears.
   The **Help Topics** window opens.

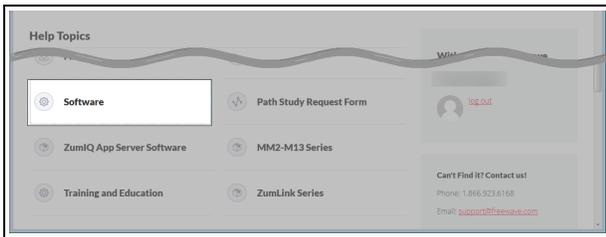4. Click the **Software** link.

Figure 2: Help Topics window

The **Software** window opens.

5. Click the **WAVECONTACT Toolkit** link.

The available software appears in the window.
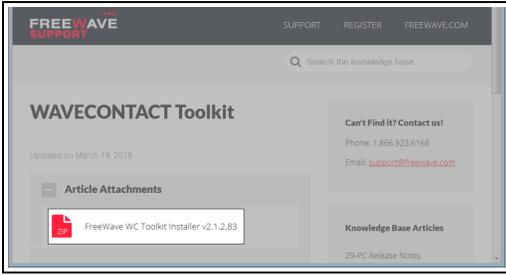
6. Select and click the attachment.

Figure 3: WAVECONTACT Toolkit window

The **Opening** dialog box opens.

> **Note**: This procedure shows Firefox® dialog boxes. Other browsers will have different dialog boxes and procedures.

7. Click **OK**.

The **Enter name of file to save to** dialog box opens.

8. Search for and select a location to save the **.zip** file to and click **Save**.

The **Enter name of file to save to** dialog box closes.

9. Open a Windows® Explorer window and find the location where the **.zip** file was saved.

10. Double-click the **.zip** file.

11. Extract the **.exe** file from the **.zip** file into a parent location.

12. Double-click the **.exe** file to run the WC Toolkit installer.

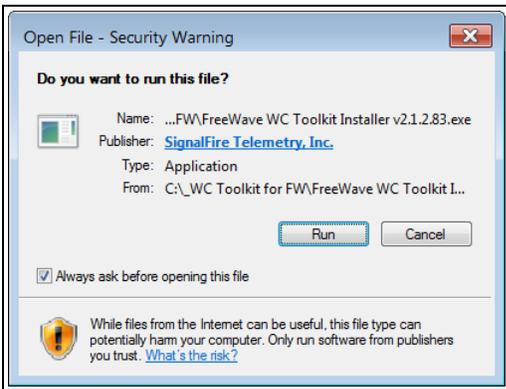The **Open File - Security Warning** dialog box opens.

Figure 4: Open File - Security Warning dialog box

13. Click **Run**.

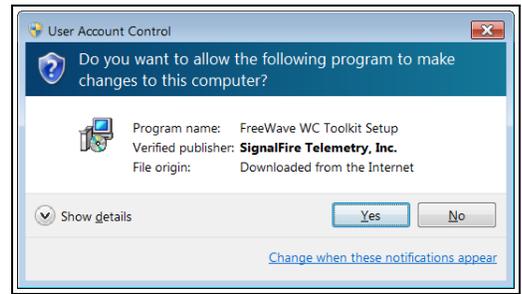The **User Account Control** dialog box opens.

Figure 5: User Account Control dialog box

14. Click **Yes**.
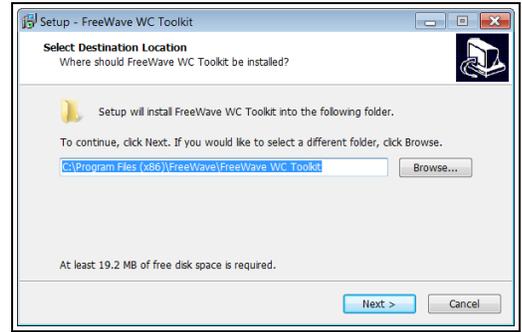
The **WC Toolkit Setup Wizard** starts.

Figure 6: WC Toolkit Setup Wizard - Select Destination Location window

15. Click **Next** to continue.
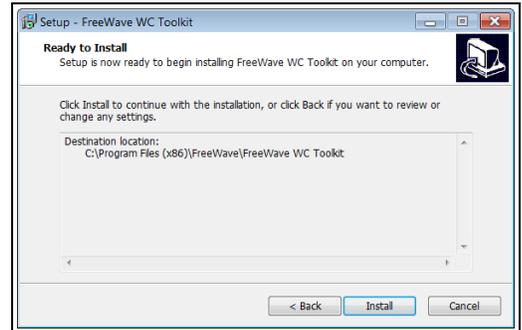
The **Ready to Install** window opens.

Figure 7: WC Toolkit Setup Wizard - Ready to Install window

16. Click **Install**.

The install process is very quick.

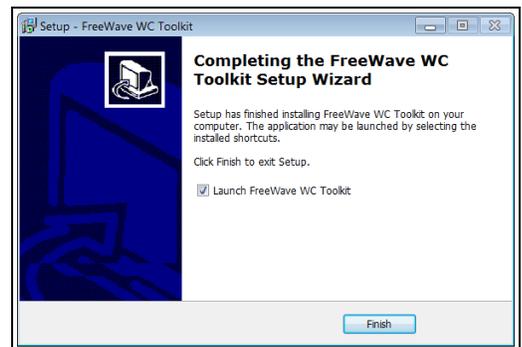The **Installation Complete** window opens.

Figure 8: WC Toolkit Setup Wizard - Installation Complete window

17. Click **Finish** to open WC Toolkit.

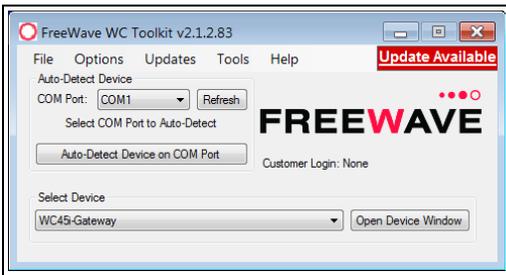An **Update** message appears in the WC Toolkit window is an update is available.

Figure 9: WC Toolkit - Update Available message

18. Continue with the procedure.

WC Toolkit Update

If the WAVECONTACT device is connected to the internet, WC Toolkit automatically searches for an update for either the WC Toolkit itself or the connected device's firmware.

An **Update Available** message appears if an update is available.

> **Note**: An **Update Available** message also appears in the **Device Configuration** window for any connected WAVECONTACT device when an update is available for that device.
> The update procedure is the same for the device and WC Toolkit.

1. Open the **WC Toolkit** software.
   The **Update Available** message appears in the window.
2. Click the **Update Available** message link.

Figure 10: Click the Update Available message link

The **Open File - Security Warning** dialog box opens.
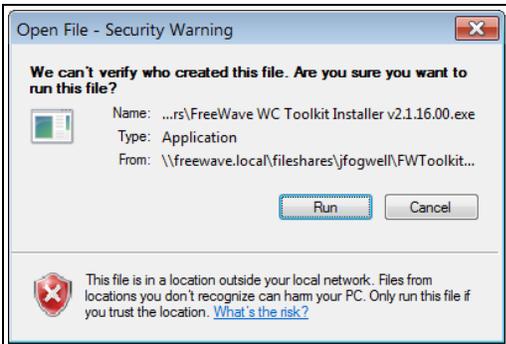

Figure 11: Open File - Security Warning dialog box

3. Click **Run**.
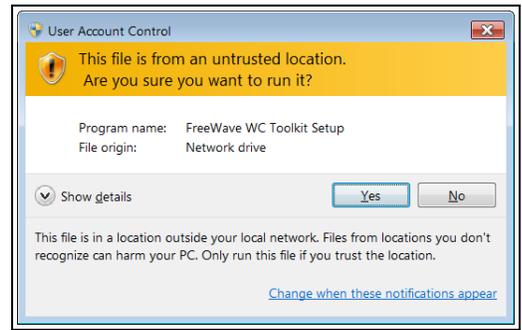   The **User Account Control** dialog box opens.

Figure 12: User Account Control dialog box

4. Click **Yes**.
   The WC Toolkit update process is very quick.
   When the update is completed, WC Toolkit re-opens the **Select Device** window showing the updated software version in the WC Toolkit window. (Figure 13)
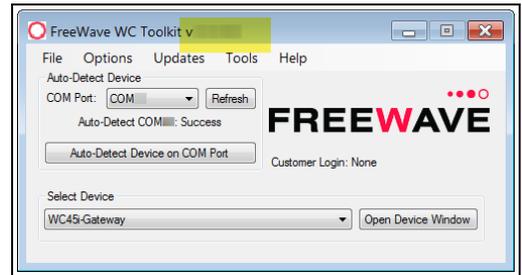

Figure 13: Select Device window

5. Continue with .

Setup the Computer IP Address Configuration

The IP address of the computer used for configuration needs to be set so the computer appears in the same network as the Gateway before configuration can continue.

> **Note**: The images in this procedure are for Windows® 7 and/or Firefox®. The dialog boxes and windows appear differently on each computer.

1. On the computer, click the Windows® **Start** button and select **Control Panel**.
2. View the **Control Panel** window by **Category** and click **Network and Internet > View Network Status and Tasks**.
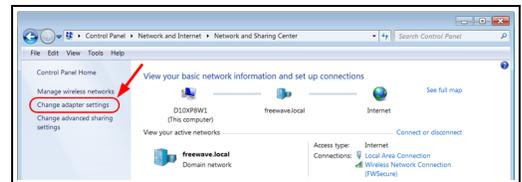3. Click the **Change Adapter Settings** link.

Figure 14: Change Adapter Settings Link

4. Double-click the **Local Area Connection** link.

Figure 15: Local Area Connection Link

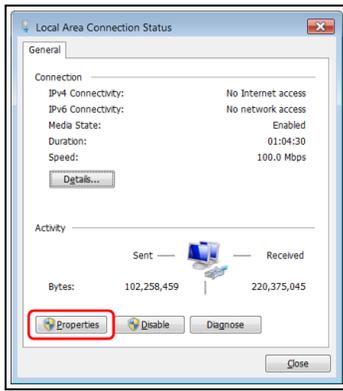The **Local Area Connection Status** dialog box opens.

Figure 16: Local Area Connection Status dialog box

5. Click **Properties**.
   The **Local Area Connection Properties** dialog box opens.
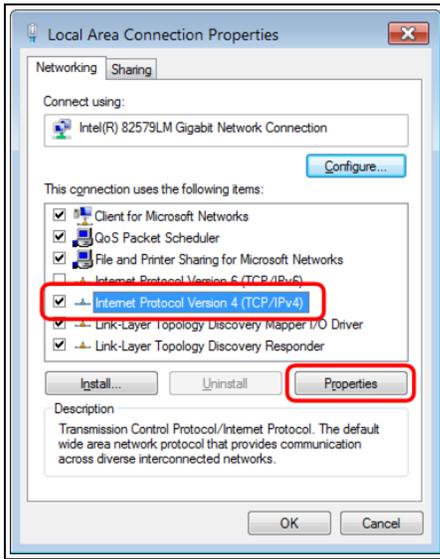6. Select the **Internet Protocol Version 4 (TCP/IPv4)** option.

Figure 17: Local Area Connection Properties dialog box

7. Click **Properties**.
   The **Internet Protocol Version 4 (TCP/IPv4) Properties** dialog box opens.
8. Make a note of the current settings (to reverse this procedure later).
9. Select the **Use the following IP address** option button.
10. In the **IP Address** text box, enter an IP Address that is **in the same subnet range but a DIFFERENT IP Address** than the device.

> **Example**: Enter an **IP Address** from **192.168.1.101** to **192.168.111.254** (but NOT **192.168.1.100**) and the **Subnet Mask** to **255.255.255.0**.

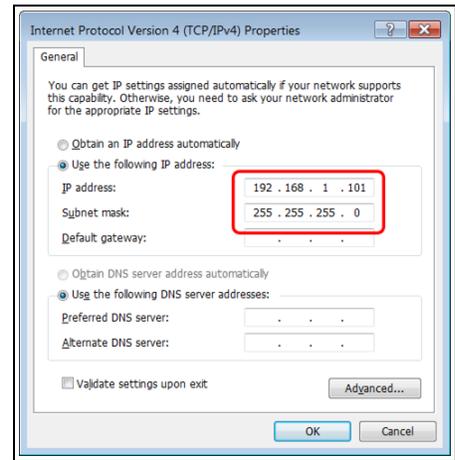> **Note**: The default WAVECONTACT IP Address is **192.168.1.100**. The default subnet mask is **255.255.255.0**.

Figure 18: Local Area Connection Properties dialog box

> **Note**: An IP Address is NOT required in the **Default Gateway** text box.

11. Click to save the changes and close the dialog box.
12. Click **Close** twice to close the **Local Area Connection Properties** and **Local Area Connection Status** dialog boxes.
13. Continue with Change the WC45i-GW-P Password (on page 4).

Change the WC45i-GW-P Password

Warning! If the default password is changed, be careful to type the new password correctly and remember it.
If password is lost the device must be returned to FreeWave to be reset.

Procedure

1. Complete the Power and Gateway Connections (on page 1).
2. On the computer, complete the Setup the Computer IP Address Configuration (on page 3) procedure.
3. Open a web browser.
4. In the address bar, enter the Gateway IP Address.

> **Note**: The default WAVECONTACT IP Address is **192.168.1.100**.

5. Refresh the browser window (press <F5>).
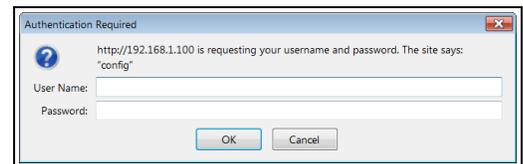   The **Authentication Required** window opens.

Figure 19: Authentication Required window

6. Enter the **User Name** and **Password**.

> **Note**: The default **User Name** is **admin** and the default **Password** is **freewave**.
> If the **User Name** or **Password** were changed, enter the applicable information in the appropriate text box.

7. Click **OK**.
   The **FreeWave WC45i Ethernet Module** software opens.
   The **Device Status** window is active.
8. Click the **HTTP** tab.
9. Click the **Authentication** button.
   The **HTTP Authentication** window opens.
10. In the **URI** text box, enter a forward slash (**/**).
11. In the **Auth Type** area, select the **Digest** option button.

12. In the **Username** text box, type **admin**.

13. In the **Password** text box, type the new password.

> **Note**: If the **User Name** or **Password** were changed, enter the applicable information in the appropriate text box.

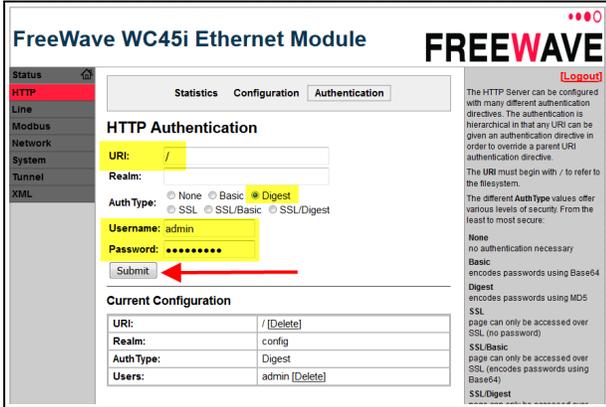The **HTTP Authentication** window is similar to .

Figure 20: HTTP Authentication window with Changed Password

14. Click the **Submit** button.
    The window refreshes with a confirmation message.

Figure 21: Updated Confirmation Message

The **Authentication Required** window opens.

Figure 22: Authentication Required window

15. Enter the **User Name** and the new **Password**.

16. Click **OK**.
    The **FreeWave WC45i Ethernet Module** software opens.
    The **Device Status** window is active.

17. Optional: Continue with other configuration WC45i-GW-P procedures.

18. Logout and close the **FreeWave WC45i Ethernet Module** software.

19. Remove the CAT5e / CAT6 Ethernet cable from the WC45i-GW-P and the computer.

20. As applicable, replace the Endpoint cover.

21. Mount the Gateway device.