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## *Introduction*

This guide describes the network configuration for the UTAH-100/UDS Router and Panel. Using two setup scenarios; New Configuration on an Independent Network, and New Configuration on an Existing Network. These are the first steps required to configure and control the system.

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## *System Setup Requirements*

- Windows™ operating system 7
- Java 7.07™ or newer
- Internet Explorer™, Firefox™, or Chrome™
- Ethernet connection

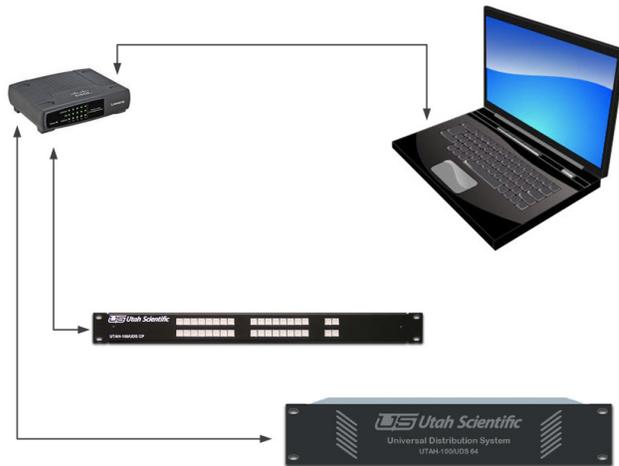
All UDS devices - PC, Router, and Panel - connect over Ethernet on a house network, or within a stand-alone (direct) mode. The system will provide default IP address during setup, or you can use unique IP addresses if required within your operation.

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## UTAH-100/UDS Network Configuration

### **New Configuration on Independent Network**

This scenario consists of a router and a panel working in a stand-alone mode with one or more PC to complete an independent, stand alone network.



**FIGURE 1.**

New configuration on an independent network is relatively simple, involving Ethernet connection between the PC and devices (router and panel) only, as a stand alone network. Simply connect all devices together as shown in Figure 1 for basic setup. In this case you will only need to set the PC address to the same subnet as the router and panel. This will facilitate applet operation and table configuration. The following default IP addresses (below) ship from the factory. The numbers will be consecutive in the case of multiple panels; i.e., .182, 183, etc.

**Routers - 192.168.5.180**

**Panel - 192.168.5.181**

To change the devices to use non default addresses, see *New Configuration on an Existing Network* (next). Also note, the PC and devices (router and panel) must occupy the same subnet.<sup>1</sup> See your network administrator for configuration assistance if no default subnet appears.

*Online instruction is also available by accessing the HTML help file located within the applets, which will also provide details for setup and configuration of the router and panel tables.*

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1. All routers and panels require separate IP addresses.

## New Configuration on an Existing Network

This procedure describes new configuration on an existing network. Use this routine if you need to modify the router or panel's network parameters. The steps below are based on the default set of parameters.

On the PC, click Control Panel, Network and Internet, Network Sharing Center, then Change Adapter Settings.<sup>2</sup>

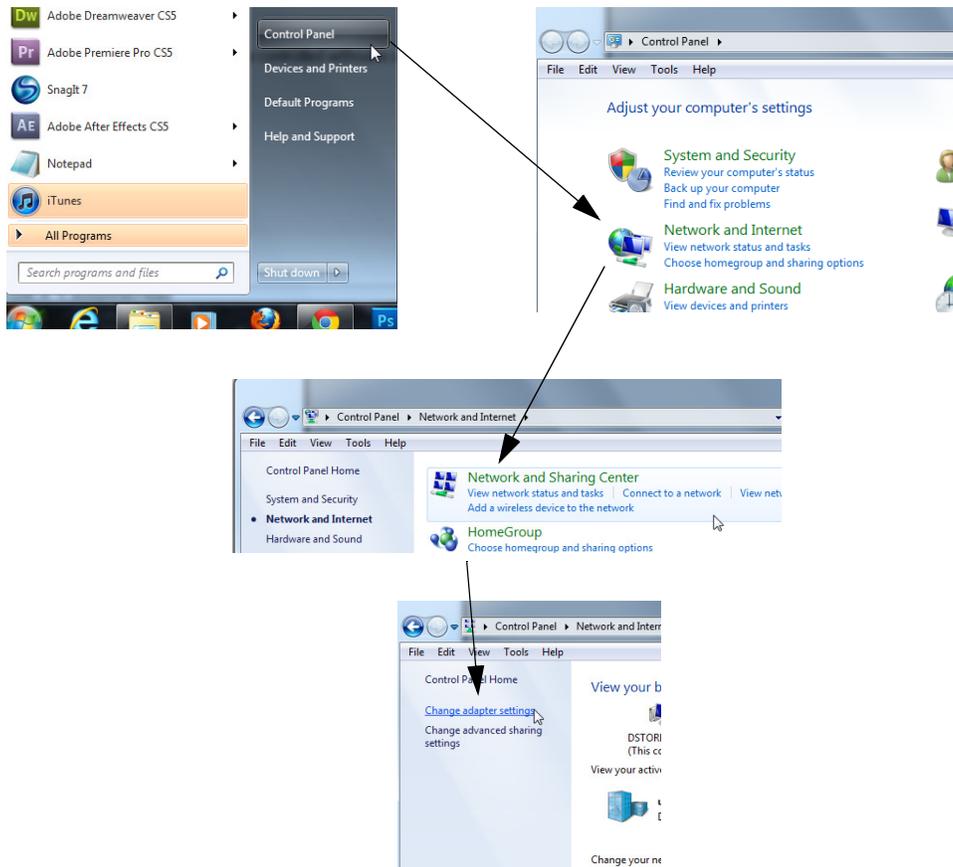


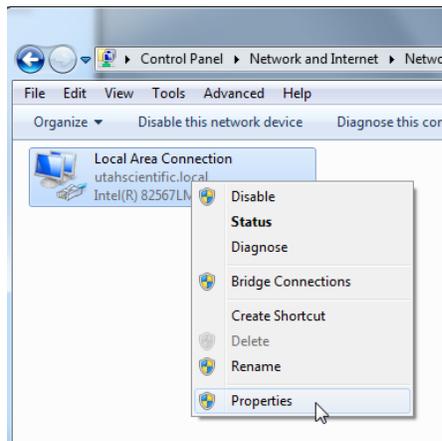
FIGURE 2.

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2. These steps are based on Windows 7 operation.

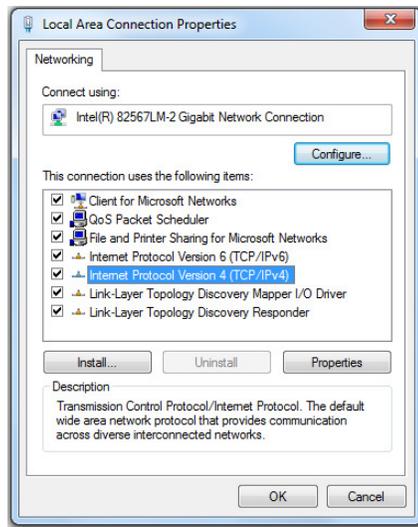
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When the following window appears, right-click the icon to produce the drop-down menu, then select *Properties*.



**FIGURE 3.**

The following window will appear.



**FIGURE 4.**

Select Internet Protocol Version 4, then click the Properties button. The following window will appear.

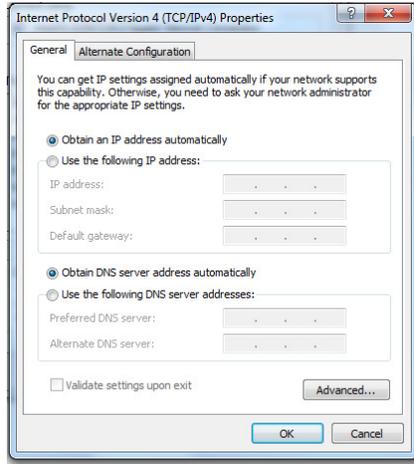


FIGURE 5.

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Click the second radio button down to set a static IP address.

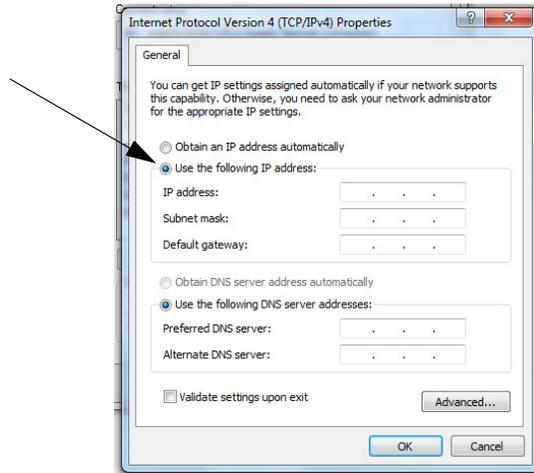
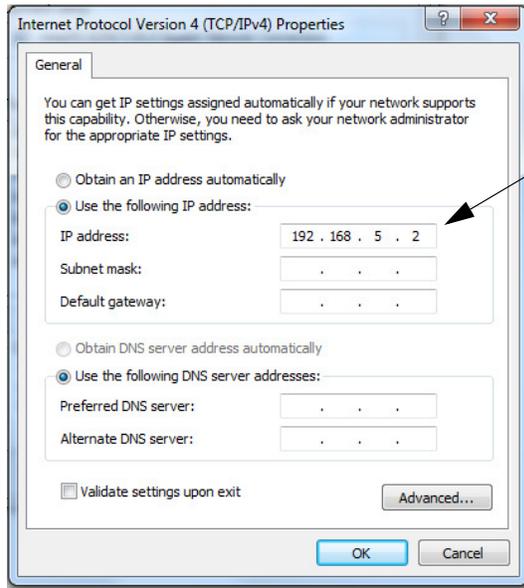


FIGURE 6.

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Enter the following address into the indicated cell (192.168.5.2)<sup>3</sup>



**FIGURE 7.**

Accept the Subnet mask default, then click OK.

Now connect your PC or laptop to the router with a standard Ethernet cable.

*Note: A crossover cable (typically used with an Ethernet connection) is not necessary as the signal 'switch' is done internally.*

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3. This is the subnet default address. You can substitute the last digit if required for your system. If your system contains a completely different subnet for the PC, routers, and panels, substitute the correct addresses where applicable.

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## Router Applet Activation and Configuration

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Launch your preferred browser and complete the following steps:<sup>4</sup>

- a. Log into the Router Applet by entering 192.168.5.180 into your browser's URL line (default). If your router is using a different address than the default, enter it into the browser.

*NOTE: If the applet does not activate, try pinging the system by opening your command prompt and typing the router's IP address (address number ending in .180) to determine whether or not the connection is good. If you are unable to ping the device, check the connections or see the network administrator for additional help.*

*In addition, if you are unsure of the IP address, you may need to default the router to the factory IP address of 192.168.5.180. In this case refer to the UTAH 100-UDS Operations Guide for more detail.*

- b. Accept the following advisory (checkbox) then click Run to continue

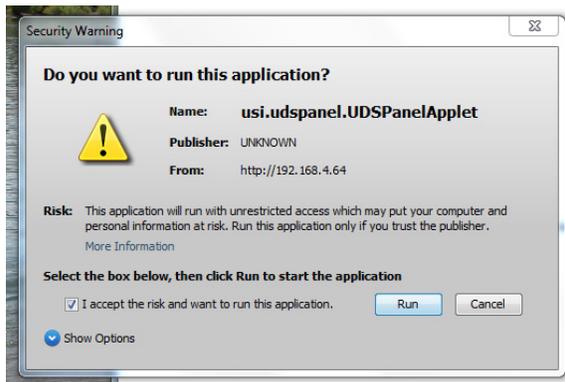


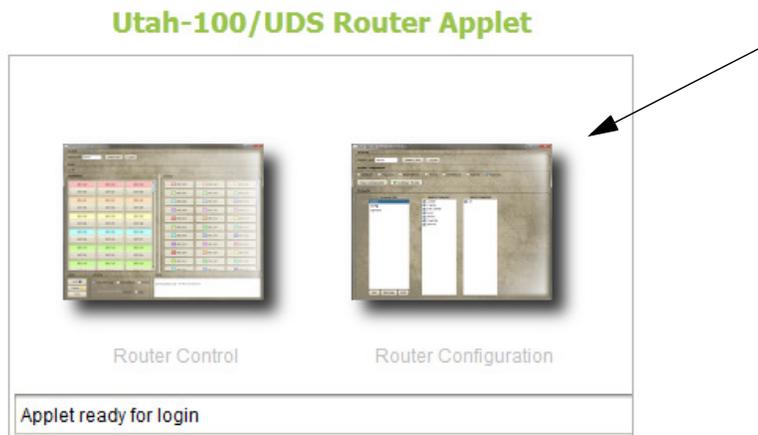
FIGURE 8.

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4. IMPORTANT: You must use Java version 7 or later.

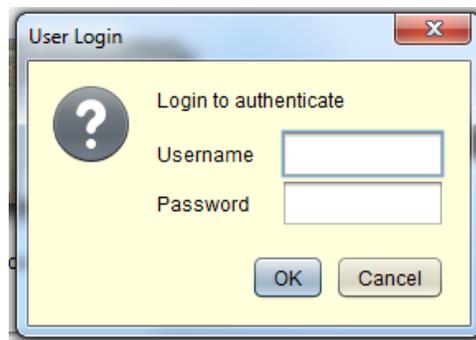
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- c. When the Router icons appears, select “Router Configuration”.



**FIGURE 9.**

*Note: You will only be able to connect if the browser window (shown in Figure 9) indicates “Applet ready for login.”*

- d. Enter Username “admin” (default) - *in the username entry box*



- e. Enter Password “admin” (default) - *in the password entry box*

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## Router Applet Activation and Configuration

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- f. Click the Data Comm (radio button) to change the network configuration.

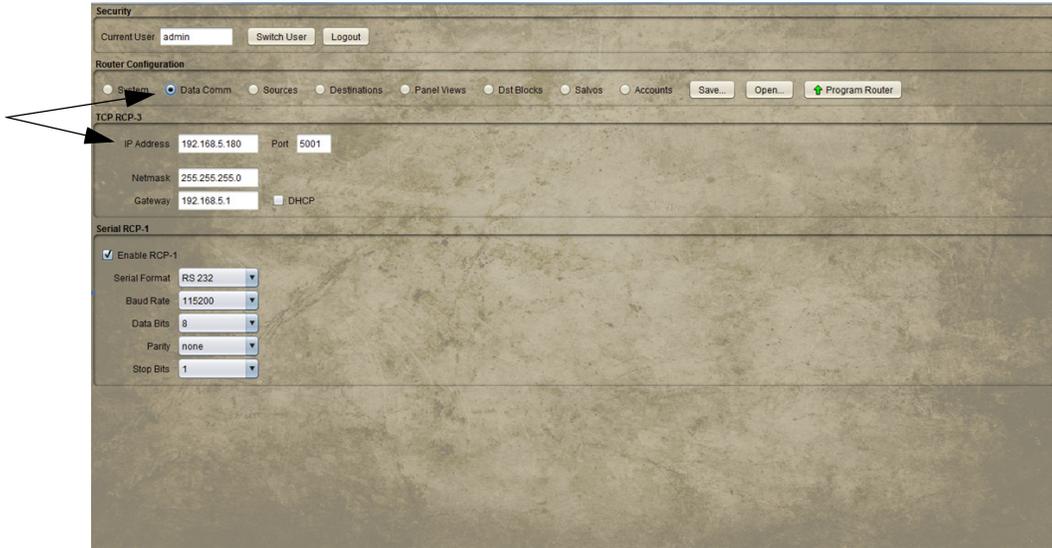


FIGURE 10.

**Note:** The program will default to your router's IP address (IP Address cell, above). It is important however that Net mask and Gateway remain constant among all devices, and to keep the DHCP box unchecked.

- g. Enter the desired IP address in the space provided.
- h. Verify the Port setting of 5001.
- i. Make sure the DHCP box is unchecked.
- j. Click the "Program Router" button when the network configuration is complete.
- k. A dialog will appear prompting you to reset the device. To make the IP changes active, reset the router by pressing (and quickly releasing) the small button at the far right side of the control module on the back of the router.

*Note:* There is no need to restart the browser when the router is reset.

Once the above steps are complete, the router can be placed on the target network and configured as needed.

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## Panel Applet Activation and Configuration

Make sure the panel is plugged into the same network as the PC, and that the PC is set to the same subnet as the panel. This procedure allows the configuration from the Panel Applet in the absence of a physical router connection.

Log into the Panel Applet first by bringing up a web browser and entering 192.168.5.181 (factory default setting) in the URL browser box. Click the Panel Configuration icon to log in, as shown in the figure below.

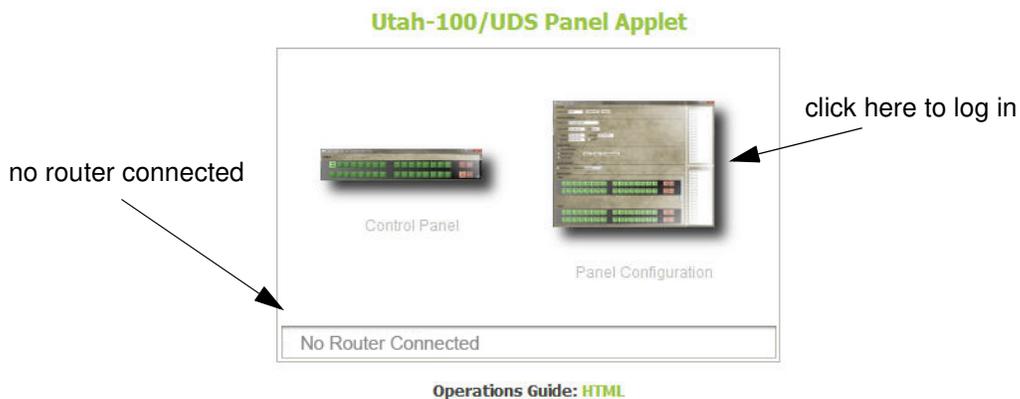


FIGURE 11.

In this mode, the Panel Applet dialog will indicate the router's absence.<sup>5</sup>

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5. This is a simple operational scenario with no router currently connected. You will be taken directly to the Configuration screen when the router and panel are simultaneously connected.

The following dialog will appear (with no router connected).



FIGURE 12.

Since there is no router connected, click Cancel to dismiss this dialog.

The following window will appear, which will give you an opportunity to designate the necessary configuration detail.

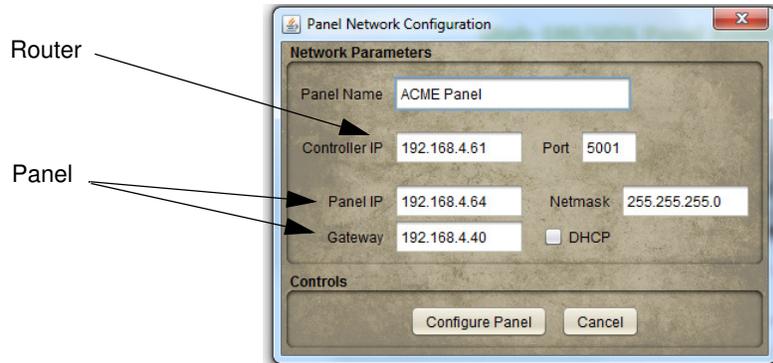


FIGURE 13.

The above illustration contains a default IP address (your address may be different). The Controller IP corresponds to the router address, while the Panel IP and Gateway are associated with the panel that you are using. Enter the correct addresses as needed.

Click **Configure Panel** when the correct addresses are in place, then reset the system.

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A dialog will appear prompting you to reset the device. To make the IP changes active, cycle the power to the panel or reset the panel by pressing (and quickly releasing) the small button at the far right side of the control module (rear of panel).

Once the above steps are complete, the panel can be placed on the target network and configured as needed.

You can now log in to the router and panel applets to configure you system as needed using the newly configured IP addresses. The default username and password is **admin**, in both cases. Once you have logged in, click the configuration icons to activate the configuration dialogs.

For additional assistance, please contact Utah Scientific Customer Service - 1(800) 447-7204.