



Verifying Network Settings

Introduction

The NV9000 system controller’s network ports must be assigned the correct IP addresses and must be placed in a certain “binding order.”

The ordering and the IP addresses of the networks are as follows:

Network	Primary IP Address	Secondary IP Address
Control net	172.16.1.1	172.16.1.2
Panel and Router Net 1	192.168.1.1	192.168.1.2
Panel and Router Net 2	192.168.2.1	192.168.2.2
(Panel and Router Net <i>n</i>)	192.168.xxx.1 ^a	192.168.xxx.2 ^b
NV9000 System Net	192.168.3.1	192.168.3.2
Master Control Net	192.168.7.201	192.168.7.202
House Net	192.168.20.1	192.168.20.2

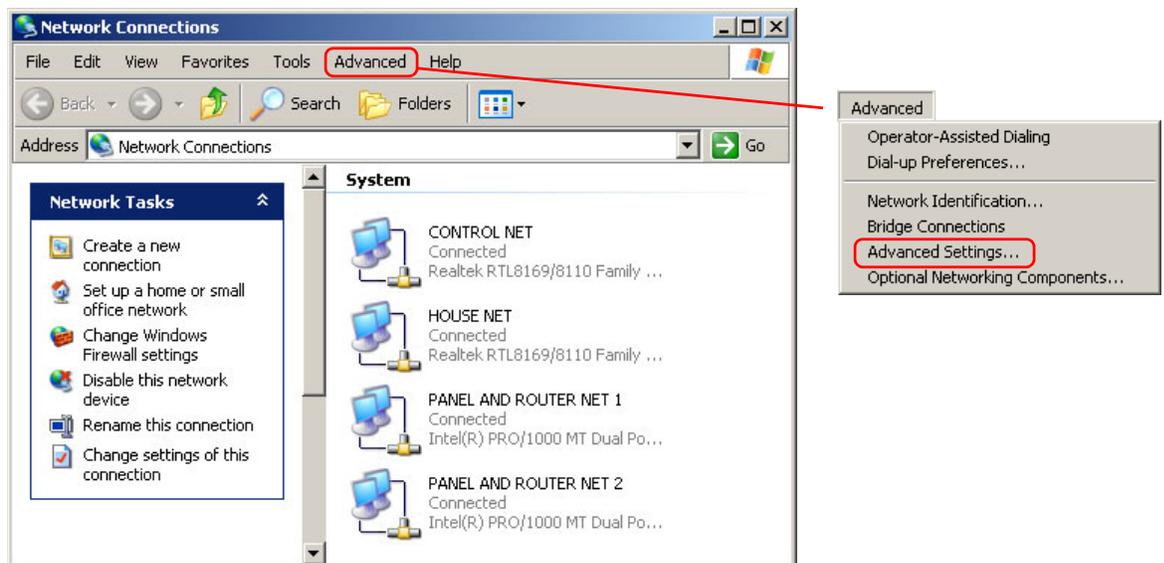
- a. The value of xxx is arbitrary for any additional panel and router networks.
- b. The number of networks is limited by the number of NIC ports. To have more than 2 panel and router networks, you might add a NIC or reassign existing network ports.

Use the Advanced Settings option under Windows Network Connections to perform the ordering.

Ordering

Follow these steps:

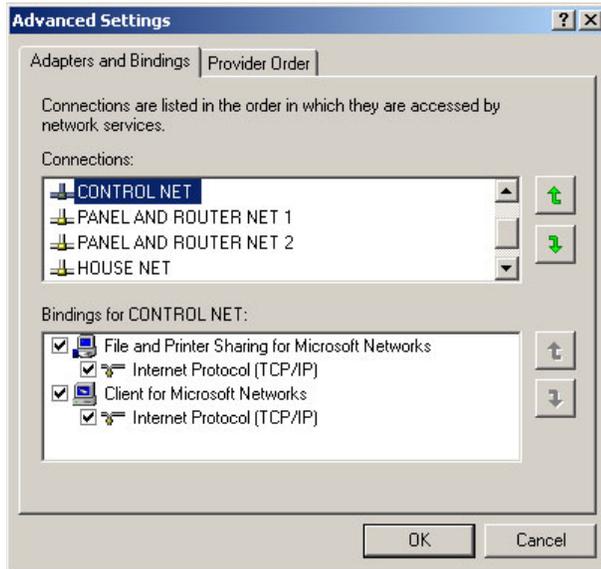
- 1 From the Windows Start menu, choose ‘Network Connections’:



Then choose ‘Advanced Settings’ from the ‘Advanced’ menu.

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2 The 'Advanced Settings' dialog appears:

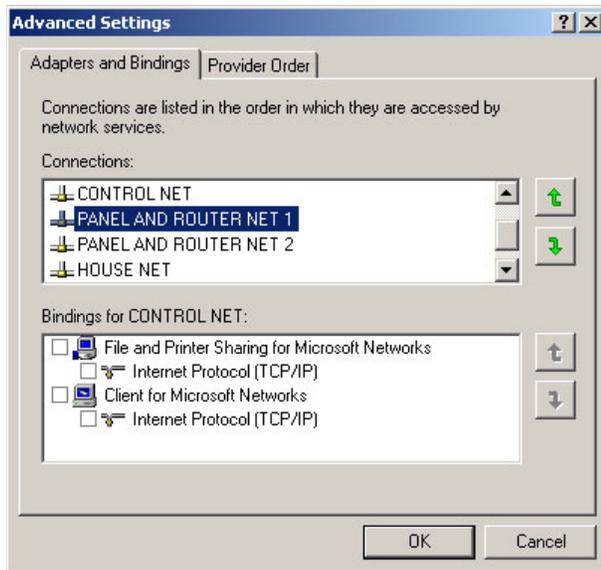


Use the up/down arrows at the right of the 'Connections' display to put the defined networks in the right order. (Select network name and click the arrow to move it.)

This ordering is known as the "binding order."

The lower display shows "bindings" for the currently selected network.

For the control net only, *check* all entries, as shown above. For the other networks, *uncheck* all entries as shown here:

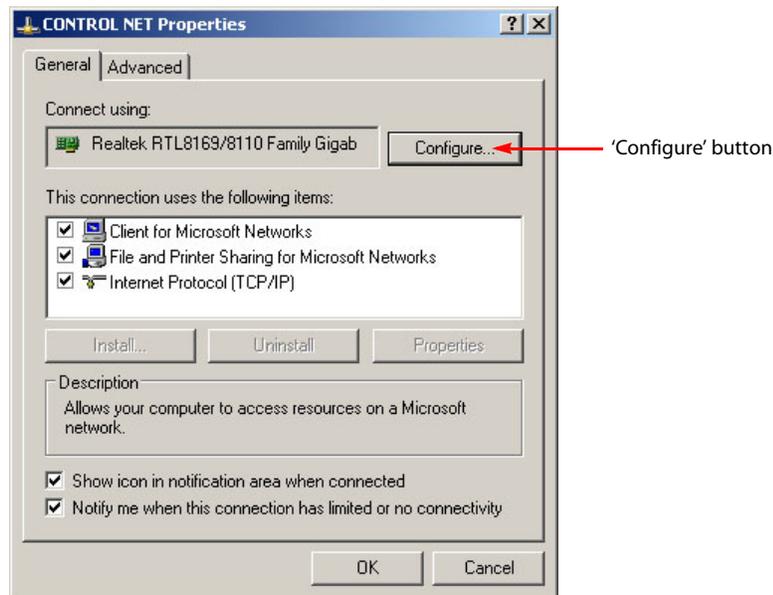


When you have finished, click OK to return to the 'Network Connections' window.

Network Properties

Perform the following steps for each NV9000 network in your system. Repeat the process for the secondary system controller if there is one.

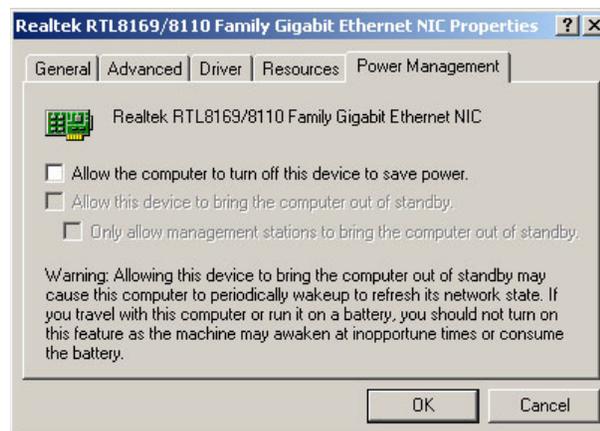
- 1 In the 'Network Connections' window, double-click the network icon to display the 'Properties' dialog. This illustration shows the properties for the control net:



For the control net, ensure that all 3 connection items are checked. For other networks, ensure that only 'Internet Protocol (TCP/IP)' is checked.

Ensure that the 'Show icon in notification area ...' box is checked.

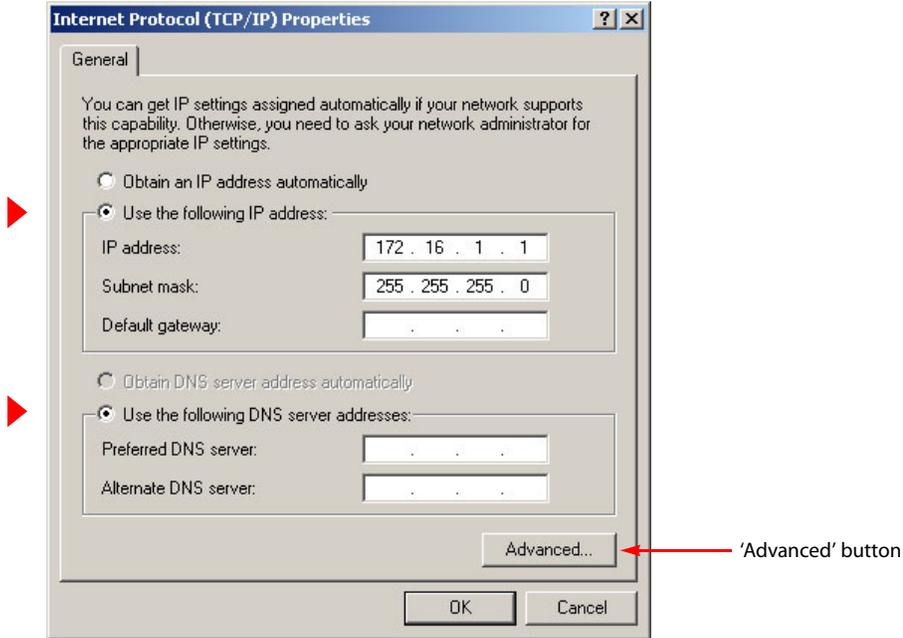
- 2 Click the 'Configure' button. The following dialog displays:



Choose the 'Power management' tab. Ensure that 'Allow the computer to turn off this device to save power' is *unchecked*. Click OK to return to the properties dialog.

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3 Highlight 'Internet Protocol (TCP/IP)' and click 'Properties'. A dialog like this one (which is for the control net) appears:

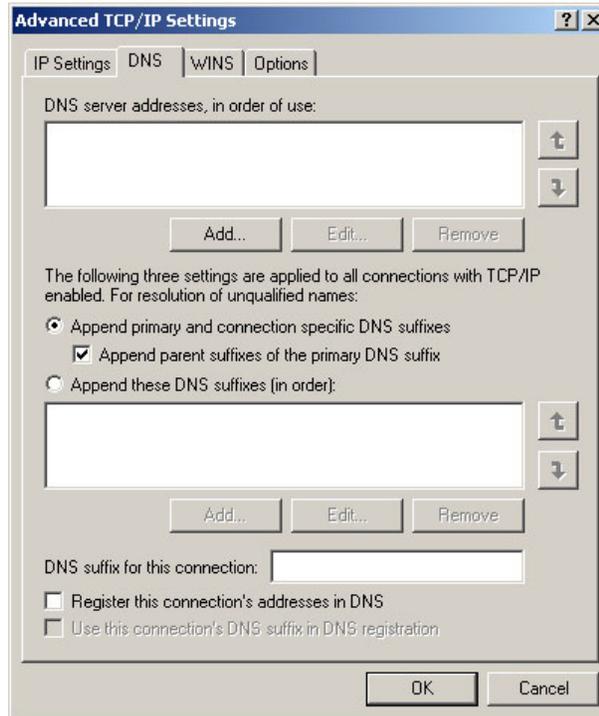


Ensure that there is a fixed IP address with subnet mask 255.255.255.0 for the network, according to this table:

Network	Primary IP Address	Secondary IP Address
Control net	172.16.1.1	172.16.1.2
Panel and Router Net 1	192.168.1.1	192.168.1.2
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(Panel and Router Net <i>n</i>)	192.168.xxx.1	192.168.xxx.2
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Master Control Net	192.168.7.201	192.168.7.202
House Net	192.168.20.1	192.168.20.2

Choose 'Use the following DNS server addresses' but leave the address fields blank.

4 Click the 'Advanced' button. The following dialog appears:



Ensure that the 'Register this connection's addresses in DNS' option is *unchecked*. Click OK.

5 Close all open dialogs and return to 'Network Connections' to proceed to the next network connection you want to configure or to verify.

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