

GMCE Intel Pro/1000 MT Server Adapter

Installation, Configuration and Testing

Document Number
719-00735A

10 Aug 2006

Copyright 2006 Kodak. All rights reserved.

This page intentionally left blank.

Revision History

Revision	Date	Author	Comments
1.0	July 13 2006	Jose M. Delgado	Original release

This page intentionally left blank.

GMCE Intel Pro/1000 MT Server Adapter
Installation, Configuration and Testing

CONTENTS

Revision History i

1. GMCE Gigabit ethernet Adapter 1

2. Installation 1
   - 2.1 Installing the Hardware 1
   - 2.2 Installing the Driver 1
   - 2.3 Configuring the Adapter 3

3. Testing the Adapter 7
   - 3.1 Procedure 7

This page intentionally left blank.

GMCE GIGABIT ETHERNET ADAPTER

The workstation must have a dedicated Ethernet adapter installed for communication between the GMCE and the workstation. The recommended card is the Intel Pro/1000 MT Server Adapter.

2. INSTALLATION

2.1 Installing the Hardware

1. Shut down the workstation.
2. Install the card in one of the available PCI-X slots.

2.2 Installing the Driver

Due to the different configurations in the field, it is a good idea to determine the location of the system drive before you start this procedure.

1. Power up the workstation. When the Hardware Wizard comes up, cancel out of it.
2. Mount the CR CD, locate the **\GBE_Drivers\Intel Pro 1000 MT Desktop Adapter** directory, and double-click **PRO2KXP_V10_1.exe**.
3. The license agreement screen appears as shown in Figure 1. Accept it and click **Next**.

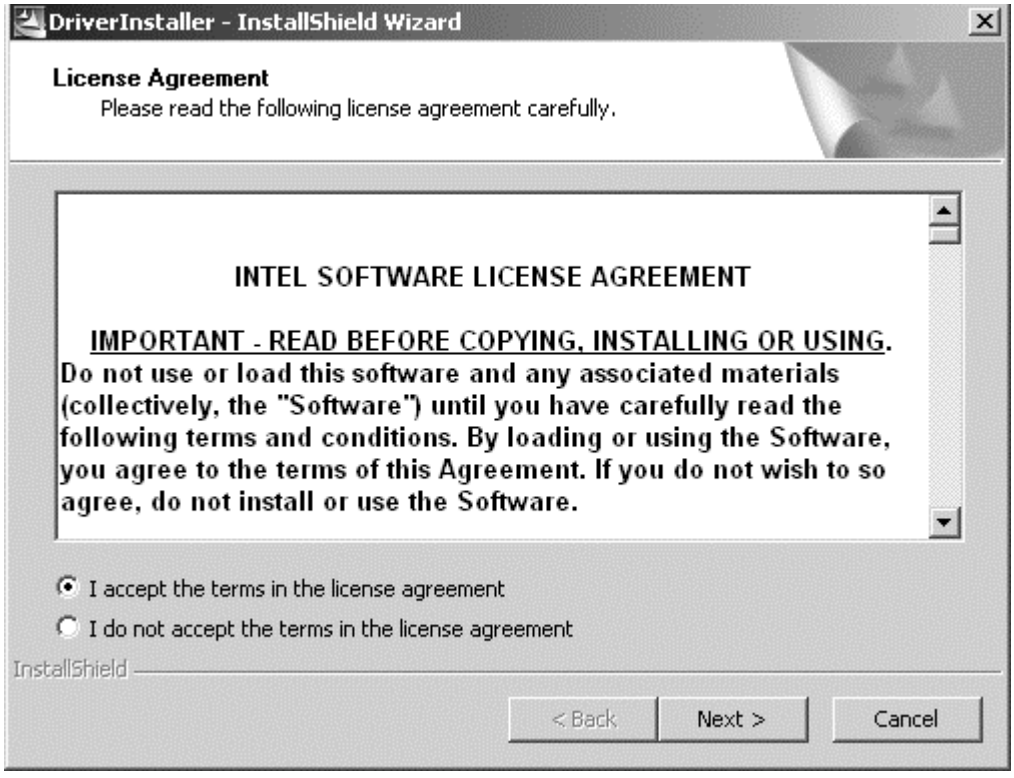


Figure 1

4. Select the location to install the required files as shown in Figure 2 and click **Next**.

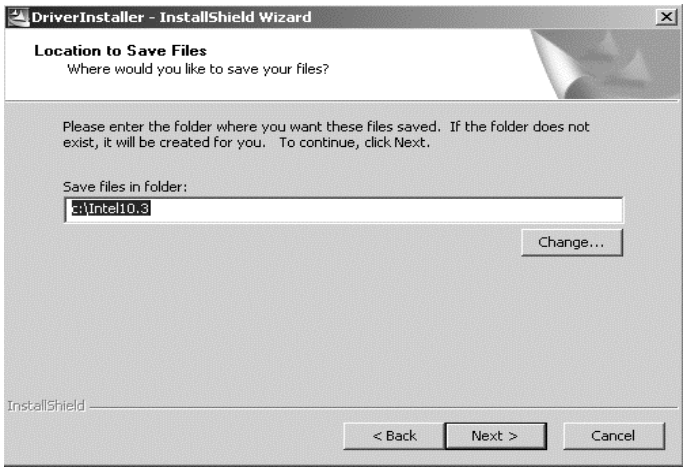


Figure 2

5. Click **Install Drivers** as shown in Figure 3.

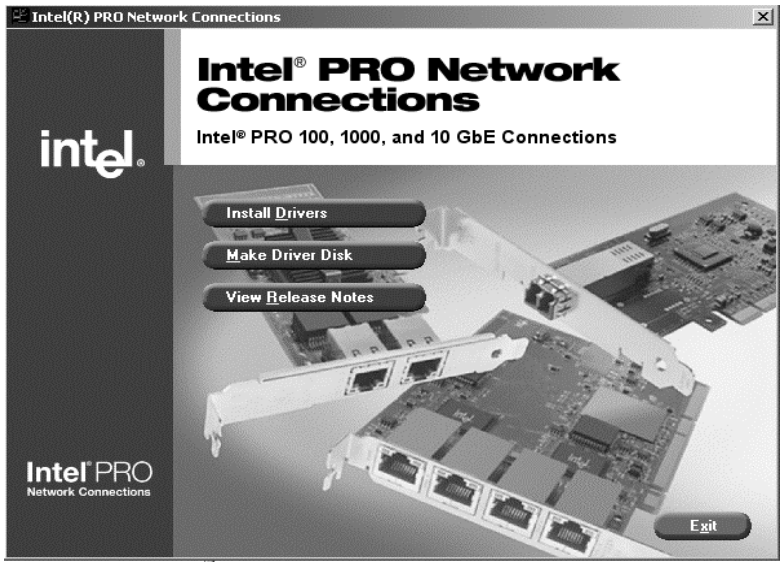


Figure 3

The configuration will take a couple of minutes to complete. When setup is complete, you should get the message shown in Figure 4.

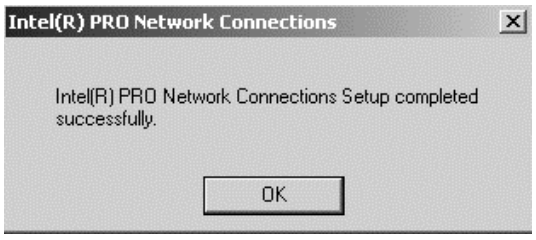


Figure 4

6. Click **OK**.

2.3 Configuring the Adapter

1. From **Control Panel > Network and Dial-up Connections**, right-click the newly installed Gigabit Ethernet connection and rename it **GMCE Connection**.

   Note that the **Device Name** is **Intel® PRO/1000 MT Server Adapter** as shown in Figure 5.

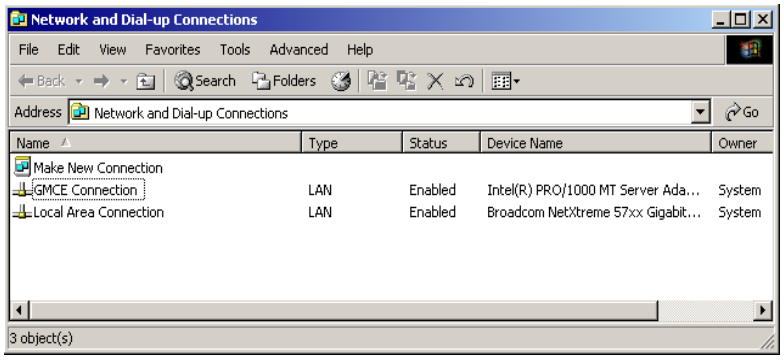


Figure 5

2. Select the connection, right-click, and select **Properties**.
3. In the GMCE Connection Properties dialog box, in the **General** tab select **Internet Protocol (TCP/IP)** and click **Properties**.
4. Give the network a static IP address, matching the **IPADDR_BOOTP** entry in the **creobootp.ini** file located in **<system drive>:\Creo\Firmware**. See Figure 6.

   The default address is **192.168.100.209**.

   Set the Subnet mask to **255.255.255.128**.

   The default gateway can be left blank.

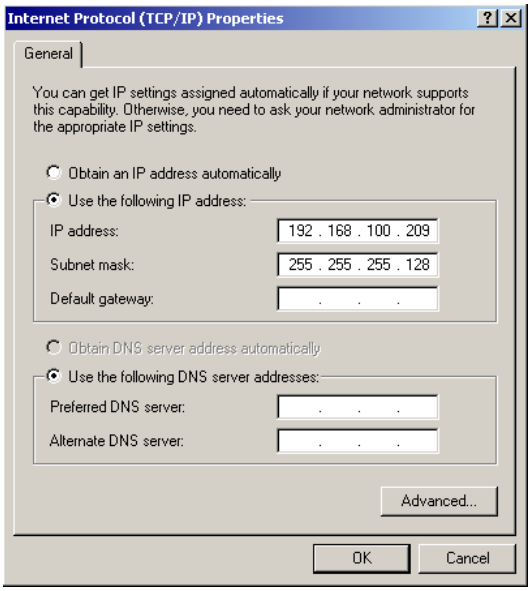


Figure 6

Important Note for Customer Site Installations

Consult with the customer's IT department about the IP addressing scheme used in their network. The above Class C IP addressing is commonly used. If there is a possible conflict:

- Change the **IP address** from **192.168.100.209** to **192.168.200.209**.
- Leave the **Subnet mask** as is.
- Change the **creobootp.ini** file in **<system drive>:\Creo\Firmware** to match the new address scheme.

If the IP address range used by the customer's network is 192.168. XXX.YYY, subnet mask 255.255.XXX.YYY, choose a different address scheme. For example:

- Change the **IP address** to **10.1.100.209**.
- Set the **Subnet mask** to **255.255.255.128**.
- Change the **creobootp.ini** file in **<system drive>:\Creo\Firmware** to match the new address scheme.

5. Click **OK** to apply the settings.
6. Under **Components checked are used in this connection**, select **Internet Protocol (TCP/IP)** and clear all other boxes.
7. Select **Show icon in taskbar when connected** as shown in Figure 7 and click **OK** to apply the settings.

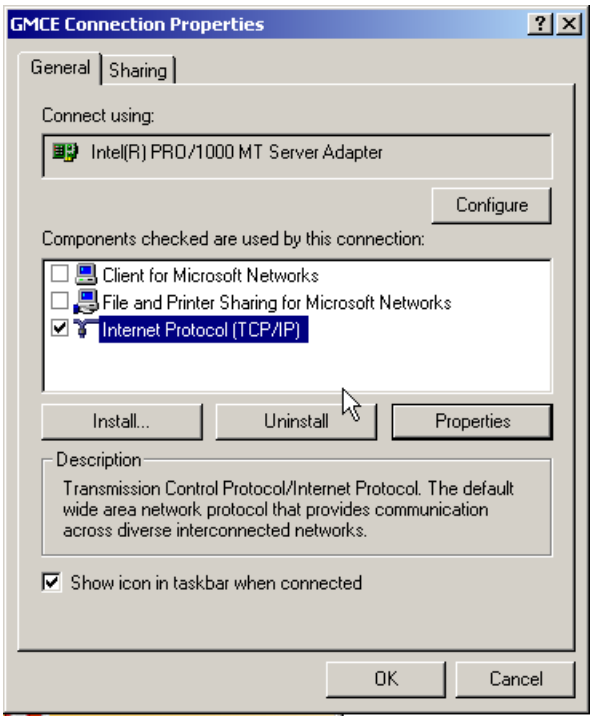


Figure 7

8. Right-click the new connection again and select **Properties**.
9. In the GMCE Connection Properties dialog box, click **Configure** and then select the **Advanced** tab.
10. Set the **Jumbo Frames** size value to **9014 Bytes** as shown in Figure 8 and click **OK** to apply the settings.

    Important: The Jumbo Frame size is critical to the transfer of raster from the PSRM application to the device using Print Console 4.x or the Test Plot Applet in Service Shell 3.x.

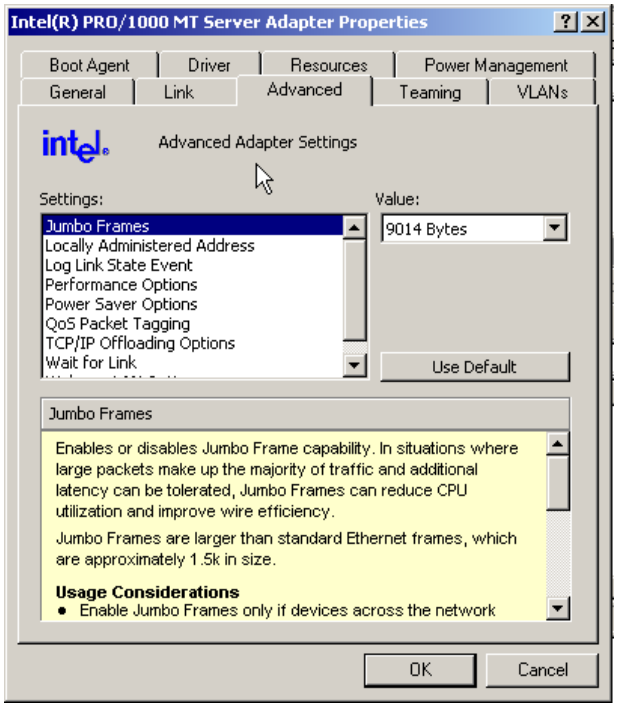


Figure 8

11. Right-click the new connection again and select **Properties**.
12. In the GMCE Connection Properties dialog box, click **Configure** and then select the **Power Management** tab.
13. Clear both boxes as shown in Figure 9 and click **OK** to apply the settings.

    An improper setting can cause the connection between the workstation and the CTP to be lost after an idle period (for example, overnight).

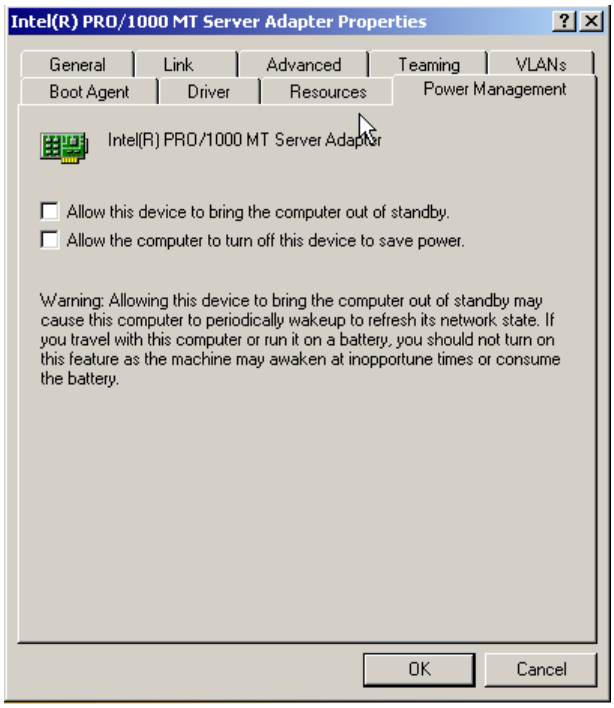


Figure 9

14. From the Windows **Start** menu, select **Settings > Network Connections**.
15. From the Network Connections **Advanced** menu, select **Advanced Settings**.
16. Make sure that the connections are listed in the same order as that shown in Figure 10. If they are not, use the buttons at the side of the **Connections** area to rearrange the order.

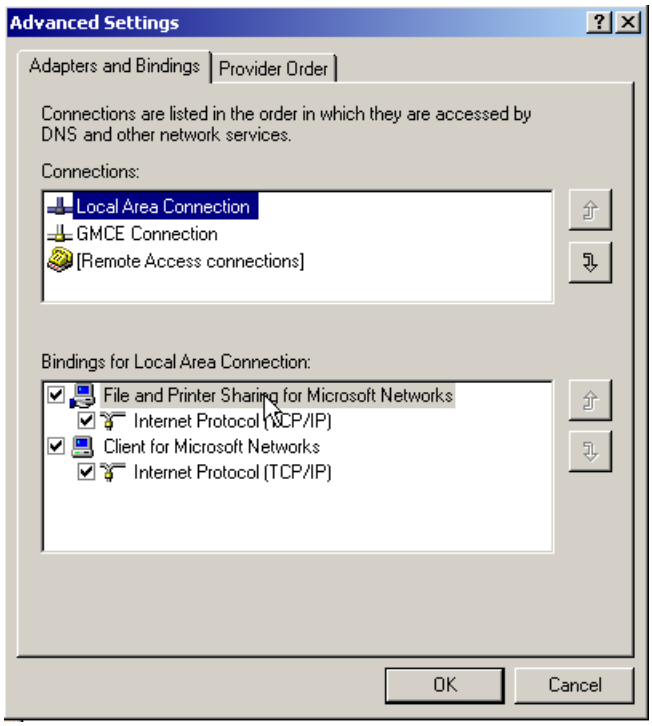


Figure 10

3. TESTING THE ADAPTER

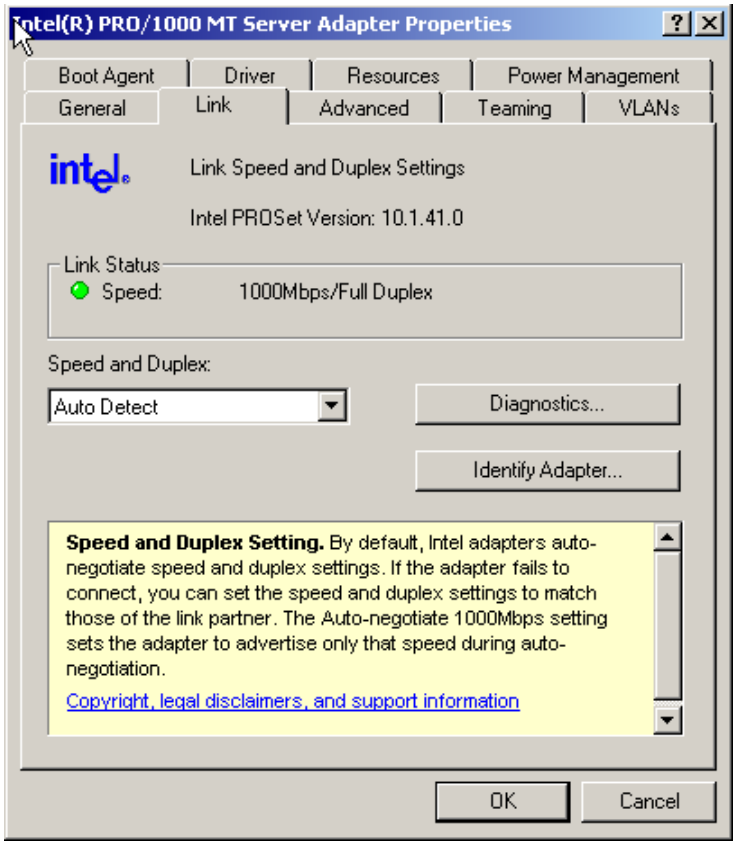


Figure 11

The Intel Pro/1000 MT Server Adapter provides tools to identify, diagnose, and test the adapter. These are located on the **Link** tab as shown in Figure 11. It provides the status of the link as well as the **Speed and Duplex** (which is normally set to **Auto Detect**).

3.1 Procedure

1. Connect the blue CAT 5E shielded cable between the GMCE and the Intel PRO/100 MT Server Adapter.

2. Confirm that the two green LEDs on the GMCE Gigabit connector J42 are **ON**.

   If the **Link** LED is green and the **Activity** LED is any other color or is off, check the link status in the as shown in Figure 11 to troubleshoot further.

   If the Link status **Speed** as shown in Figure 11 is grayed out, it means the link is unavailable, possibly because the gigabit cable is not connected. The normal status is “Green” 1000 Mbps/Full Duplex.

   Troubleshoot the problem by clicking **Diagnostics** as shown in Figure 11. You will find information in the Diagnostics dialog box.

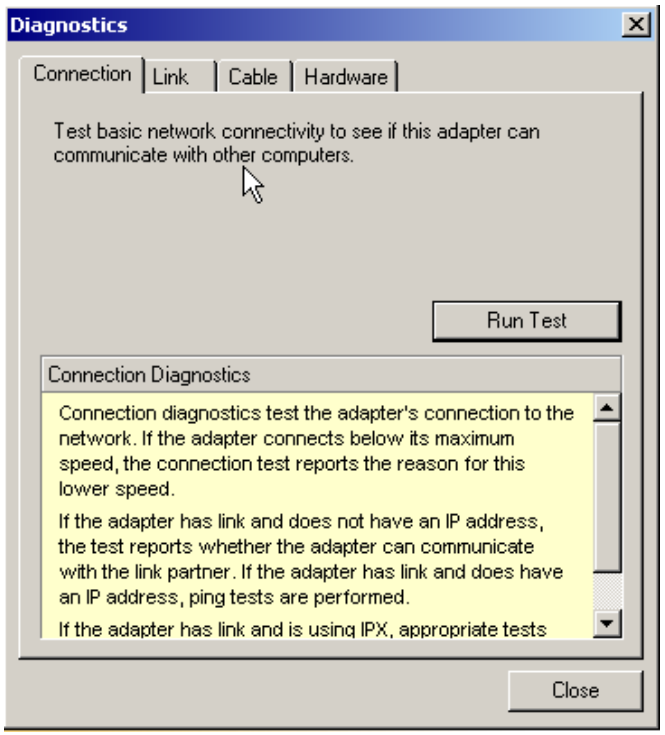


Figure 12

3. If both LEDs on J42 are green, open a DOS window and type `ipconfig`. Confirm that the IP and the subnet addresses configured in the Gigabit adapter match the one displayed under the **Ethernet adapter GMCE** heading. See Figure 13.

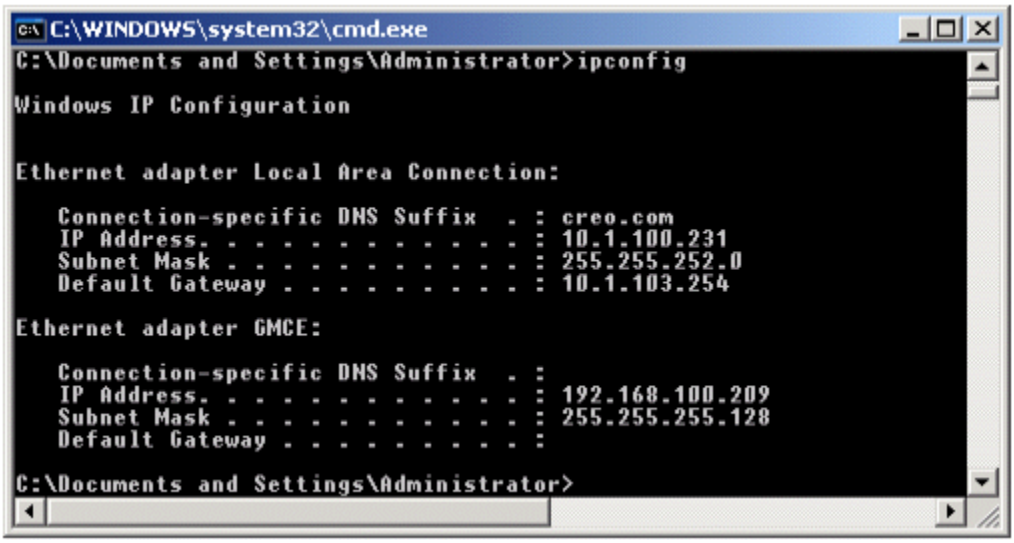


Figure 13

4. Right-click the network connection icon labeled **GMCE** on the system tray.
5. Select **Status**.

   The **Activity** area should show that both ends of the connection have sent and received packets as shown by the number of packets sent. Figure 14 shows a sample

of an incomplete connection. In this case, the GMCE is sending, but the adapter is not receiving.

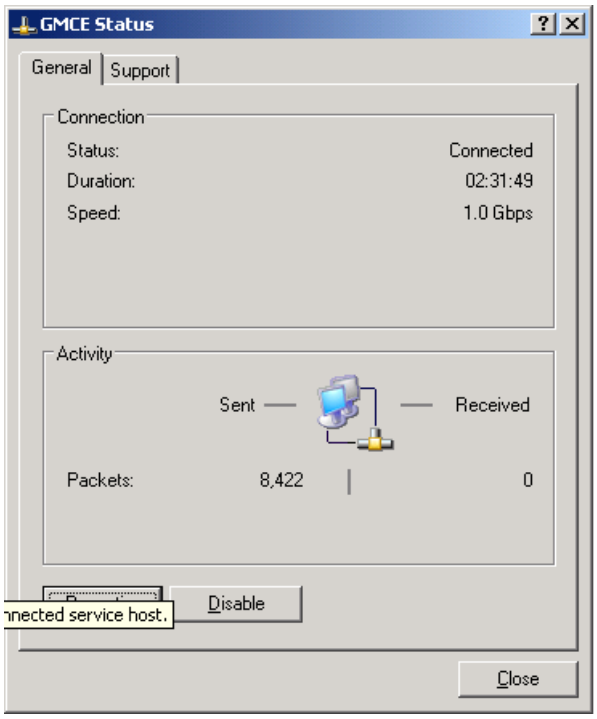


Figure 14