Magnus Edge Detect Camera

Service Laptop Setup

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Revision History

Revision	Date	Author	Comments
1.0	March 21, 2006	Jose M. Delgado	Original Release

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1. INTRODUCTION

This document explains how to set up a service laptop for adjusting the Magnus Edge Detect Camera. At some customer sites, the workstation may not be located near the Magnus device or it may even be in another room. To adjust or troubleshoot the edge detect camera, a service laptop with Service Shell and the required applet must be located in close proximity to the device.

The aim is to establish a remote connection from the service laptop to the workstation using VNC, a dedicated 10/100 Ethernet card and a crossover cable. At customers sites where the workstation is remote, the customer must run a crossover cable from the workstation to the device leaving enough slack to make the connection to the service laptop.

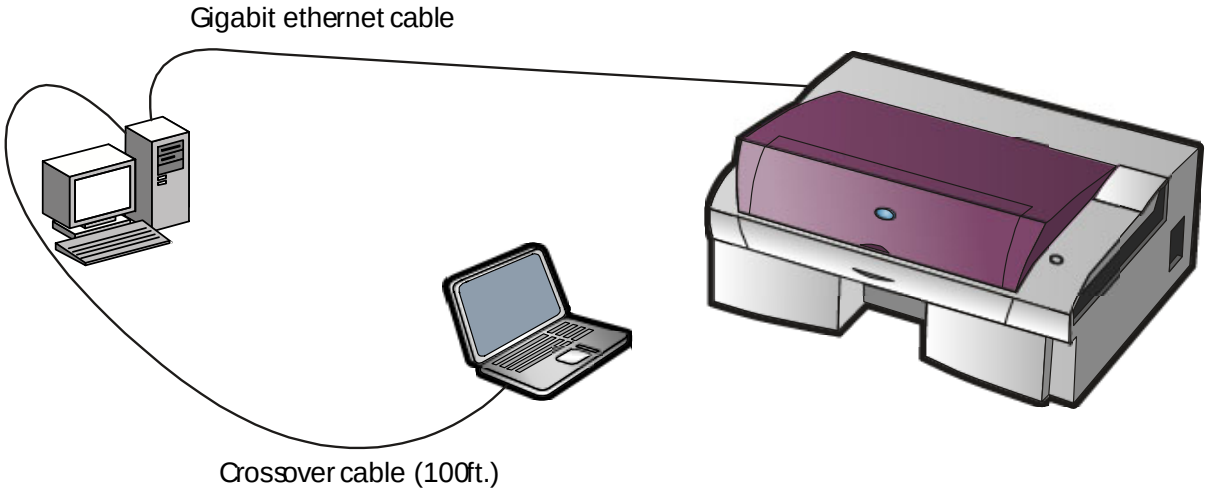


Figure 1

2. WINDOWS OPERATING SYSTEMS SUPPORTED

Laptop:

Windows XP Professional

Workstation:

Windows 2000 Professional

Windows 2000 Server

Windows 2003 Server

3. PARTS REQUIRED

- *Intel* PRO/100 M Desktop Adapter Part # 169-6007
- 10 feet crossover cable RJ45 Part # 216-00150
- Installation CD

4. INSTALLATION PROCEDURE

The installation procedure consists of the following steps that are described in more detail below:

- Install the *Intel* PRO/100 M Desktop Ethernet Adapter (see 4.1).
- Install and configure the *Intel* PRO/100 M Desktop Ethernet Adapter driver (see 4.2).
- Install the VNC Server software on the workstation (see 4.3).
- Configure the VNC Server (see 4.4).
- Install the VNC Viewer software on the service laptop (see 4.5).
- Connect the crossover cable between the service laptop and the workstation (see 4.6).
- Test the connection (see 4.7).

4.1 Installing the Intel PRO/100 M Desktop Ethernet adapter

1. Turn off the server
2. Install the *Intel* PRO/100 Ethernet adapter in an empty PCI slot. The card can be installed on a 5-volt or 3.3-volt PCI connector.

4.2 Installing and configuring the Intel PRO/100 M Desktop Ethernet adapter driver

1. Turn on the server.
2. Load the installation CD.
3. In the **IntelPro100MT** folder, run **PRO2KXP.exe**.

4. Accept the license agreement shown in Figure 1.

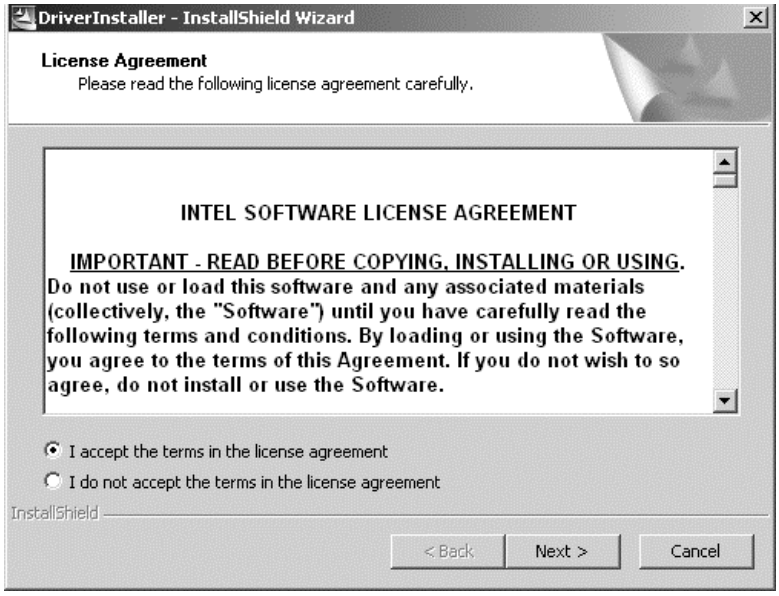


Figure 1

5. Click **Next**.

6. Because of the different configurations in the field, it is a good idea to determine beforehand the location of the system drive. Choose the location where you want to install the required files as shown in Figure 2 and click **Next**.

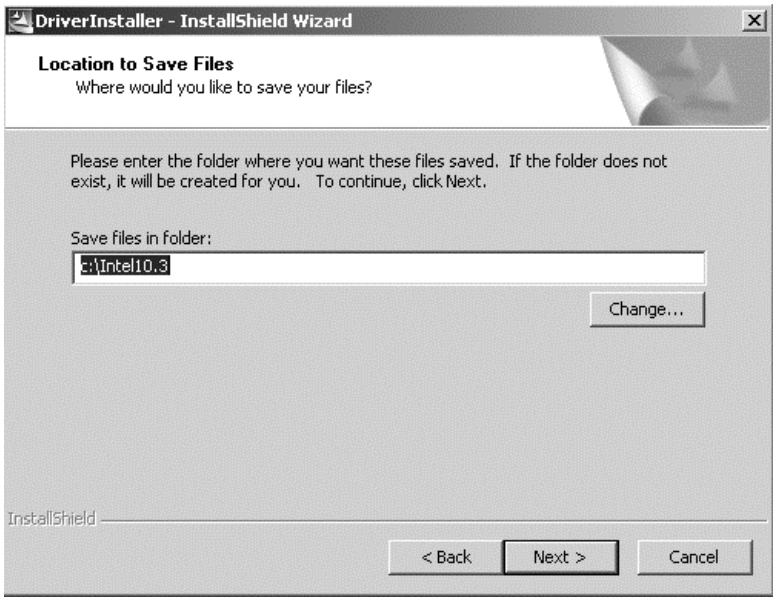


Figure 2

7. Click **Install Drivers** as shown in Figure 3. The configuration will take a few minutes.

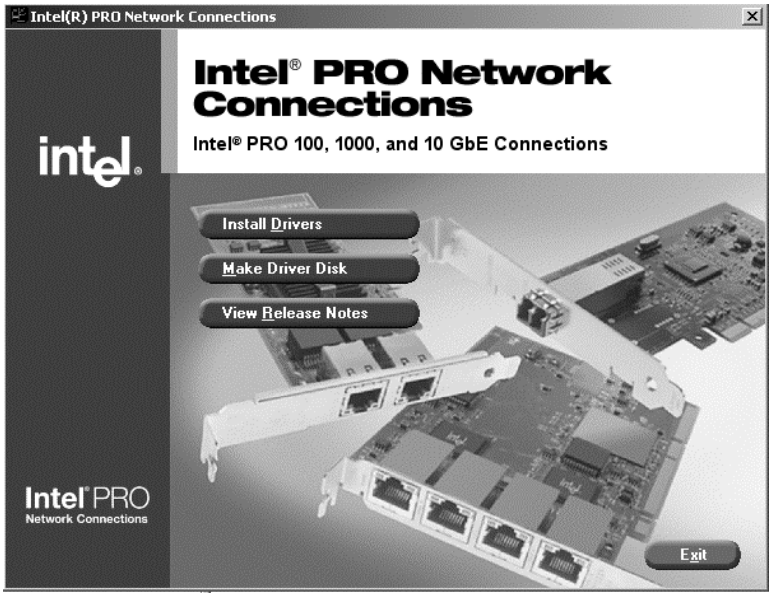


Figure 3

8. When configuration is complete, the message in Figure 4 appears.



Figure 4

9. Click **OK**

10. To configure the adapter, select **Start>Settings>Network Connections** or **Network and Dial-up Connections**

11. Identify the *Intel* PRO 100 Adapter, highlight it, right-click and rename it **Service Laptop Connection** as shown in Figure 5.

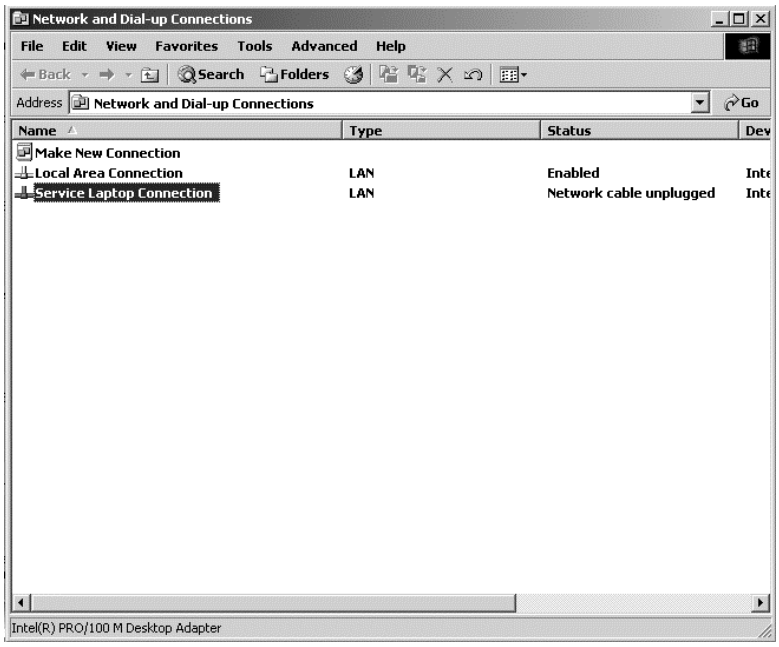


Figure 5

12. Select **Service Laptop Connection,** right-click and select **Properties**.

13. Select the **General** tab, as shown in Figure 6.

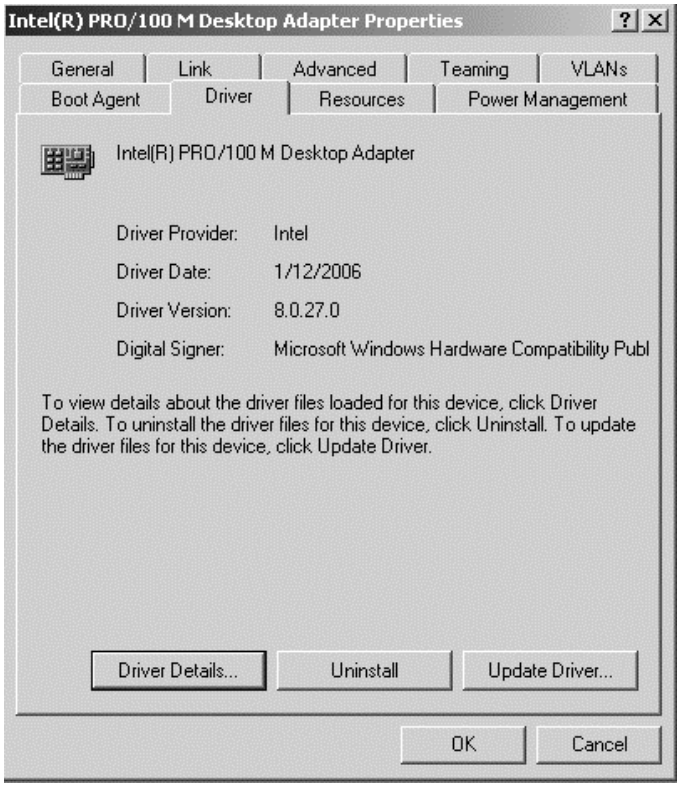


Figure 6

14. Check **Show icon on notification area when connected**.

15. Select **Internet Protocol (TCP/IP)>Properties**.

16. Select **Use the following IP address** as shown in Figure 7.

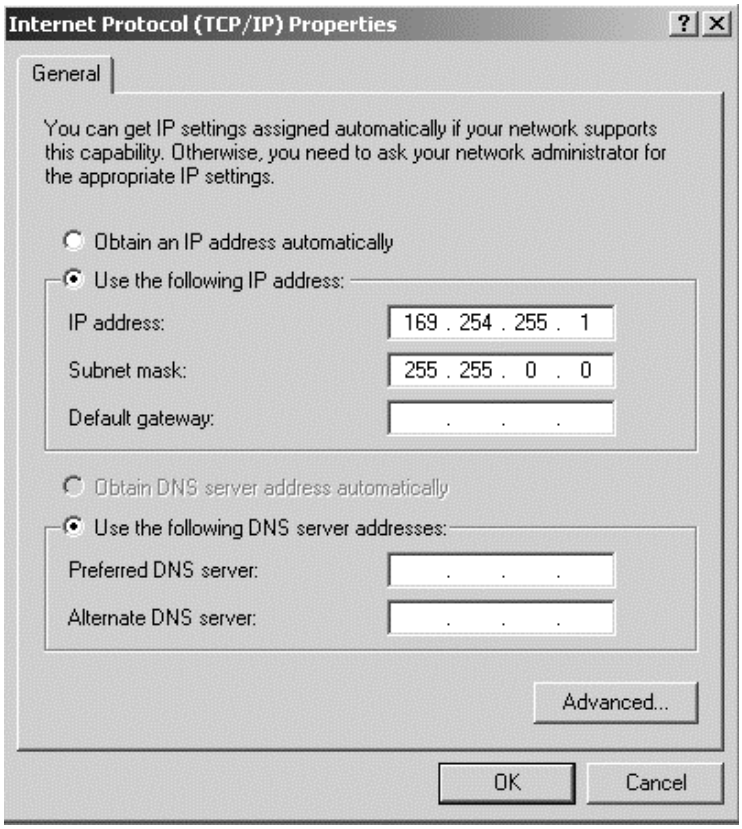


Figure 7

17. Enter **169.254.255.1** as the **IP address**: as shown in Figure 7.

18. Enter **255.255.0.0** as the **Subnet mask**: as shown in Figure 7.

19. Click **OK**.

20. Select the **Driver** tab and confirm that the driver version is **8.0.27.0**.

4.3 Installing the VNC Server software on the workstation

1. Load the Installation CD

2. Go to the VNC directory and double-click on **tightvnc-1.2.9-setup.exe** to launch the installer.

3. In the **TightVNC Setup Wizard** window, confirm that the version is 1.2.9 as shown in Figure 8.

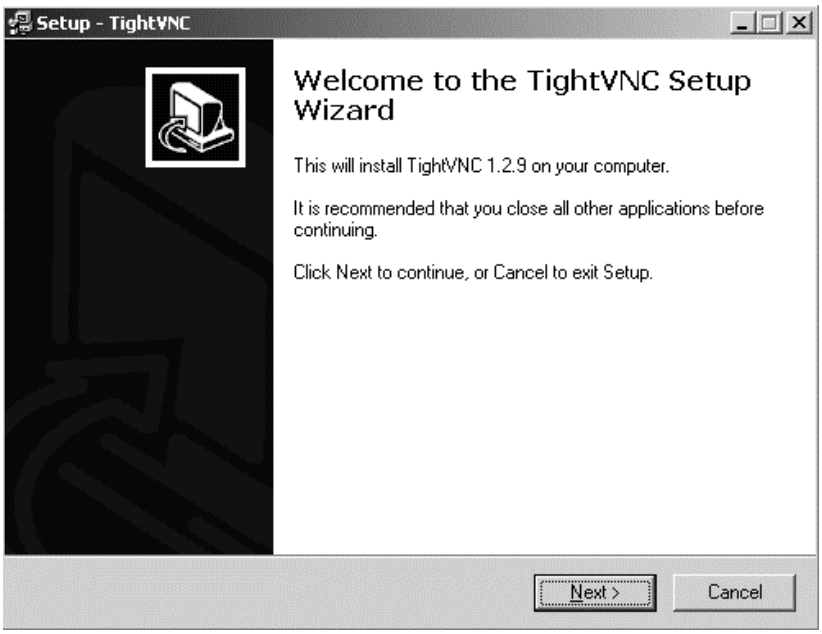


Figure 8

4. In the **Information Setup – TightVNC** window, click **Next**.

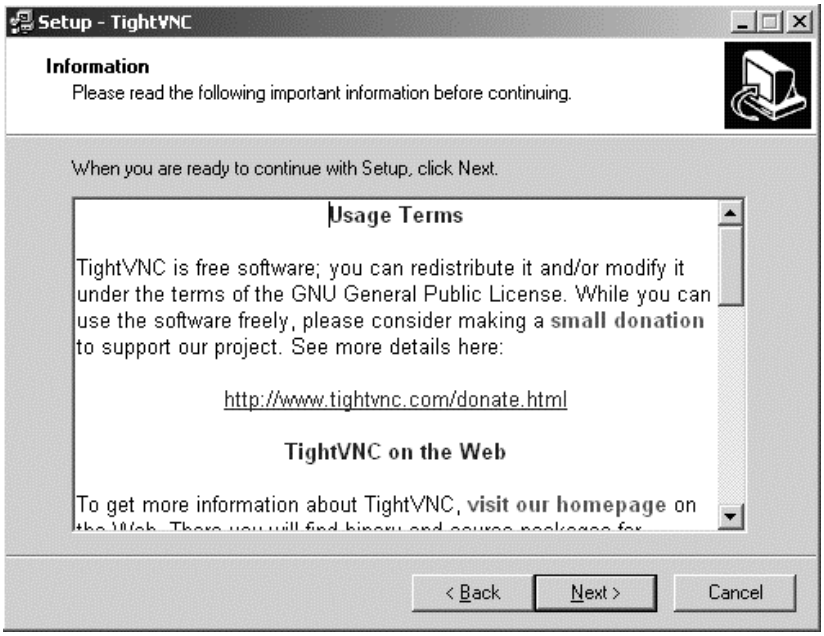


Figure 9

5. In the **Select Destination Directory – TightVNC** window, choose the drive and folder for TightVNC to be installed and click **Next**.

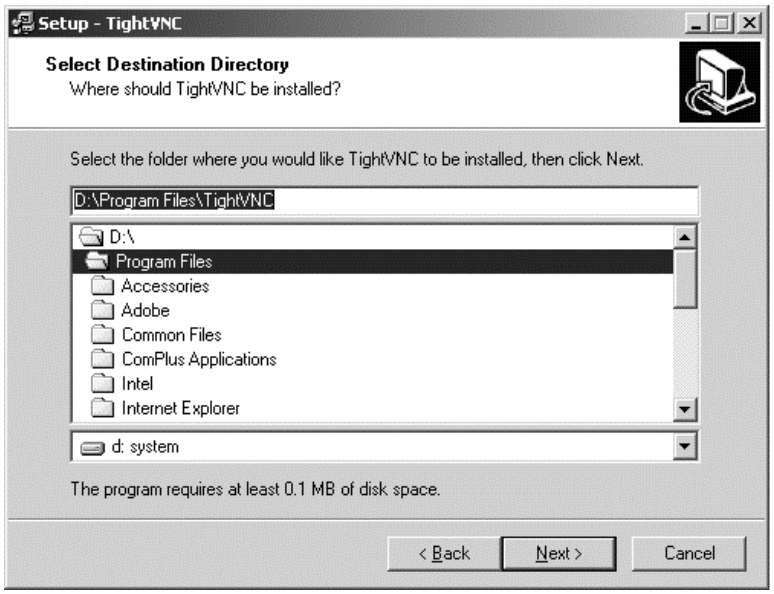


Figure 10

6. Check only **TightVNC Server** as shown in Figure 11 and click **Next**.

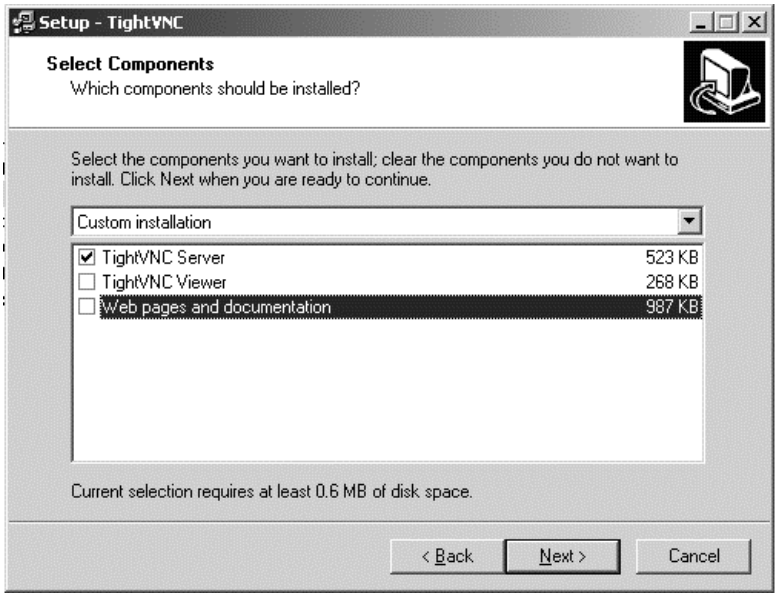


Figure 11

7. Accept the default Start Menu folder as shown in Figure 12and click **Next**.

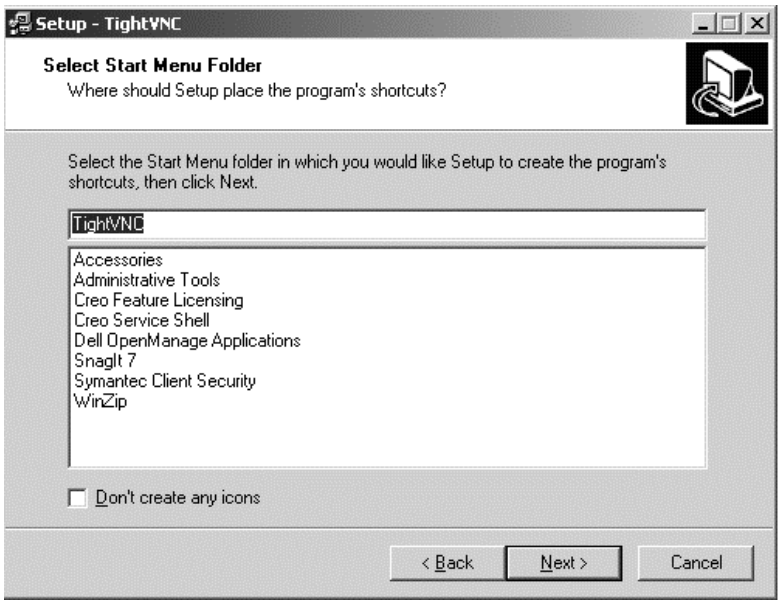


Figure 12

8. Check **Register TightVNC Server as a system service** and **Start or restart TightVNC service**.

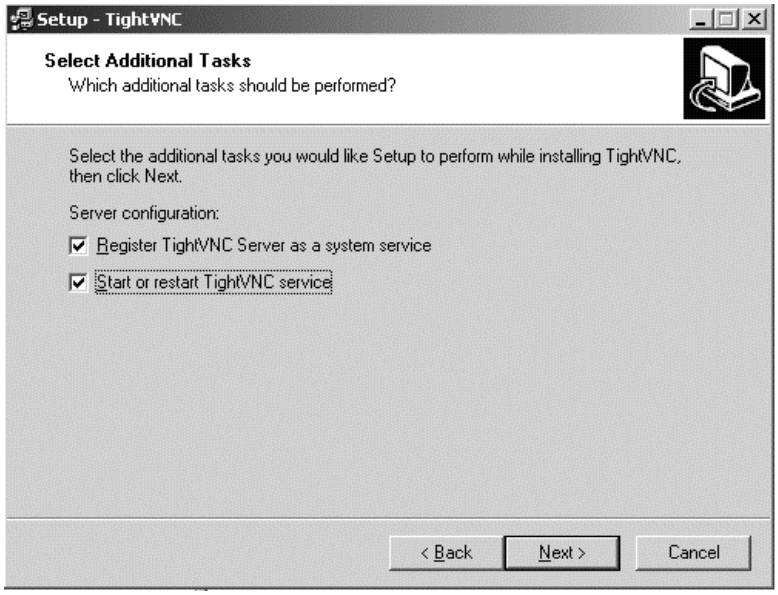


Figure 13

9. Confirm that the information is correct and then click **Install**.

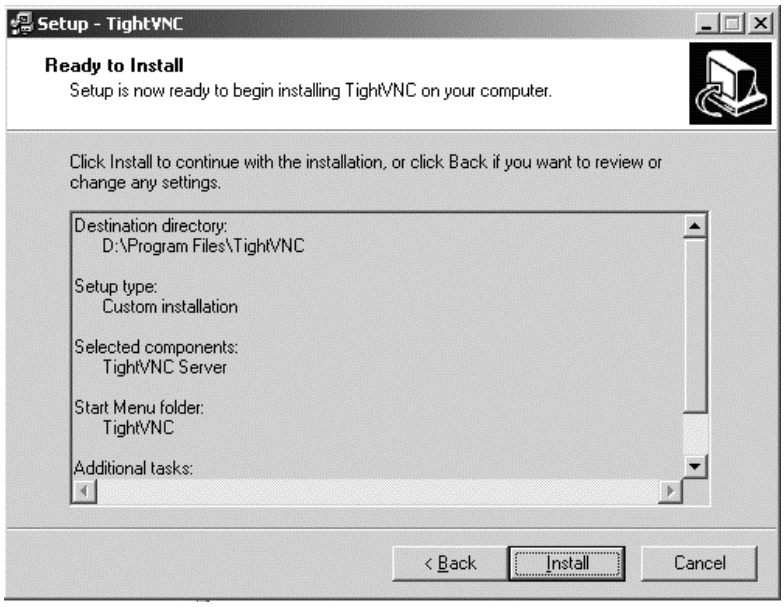


Figure 14

10. Click **Finish** to complete the installation and then restart the computer.

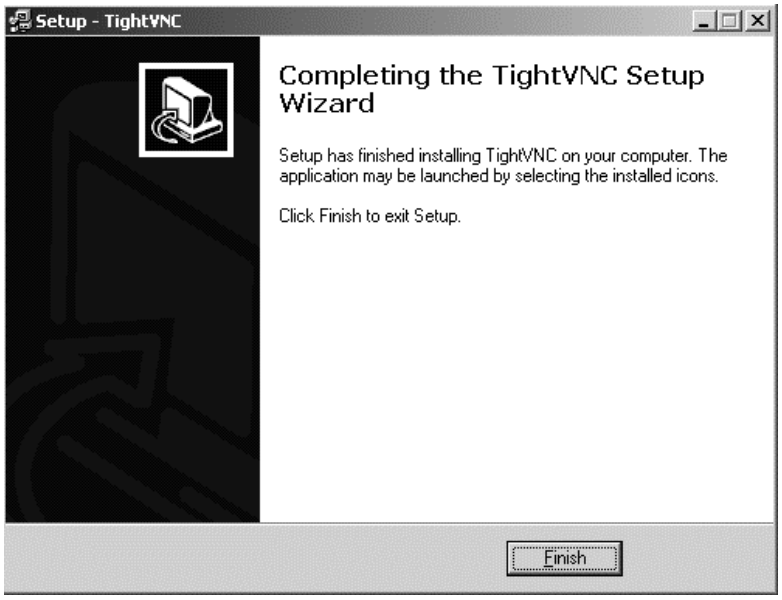


Figure 15

4.4 Configuring VNC Server

1. Right-click on the TightVNC icon on the system tray, and select **Properties**.

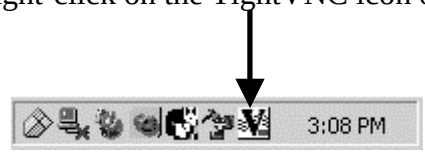


Figure 16

2. In **Current User Properties**, enter the following passwords to maintain compatibility with the Response Center:

   - **creo0rc** full control (0 is zero)
   - **creo** View only mode

   You will be prompted to enter a password when you launch the VNC Viewer on the service laptop. Use **creo0rc**.

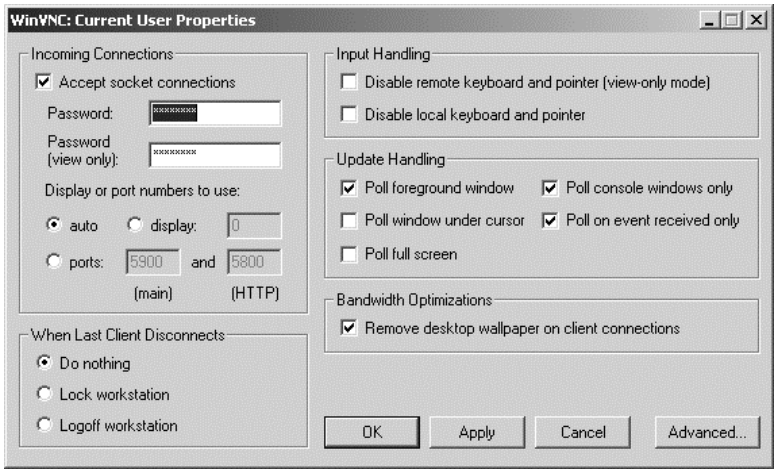


Figure 17

3. Click **OK.**

4. Check that the TightVNC software has been properly installed by comparing the items shown in the **TightVNC** and the **Administration** folders as shown in Figure 18.

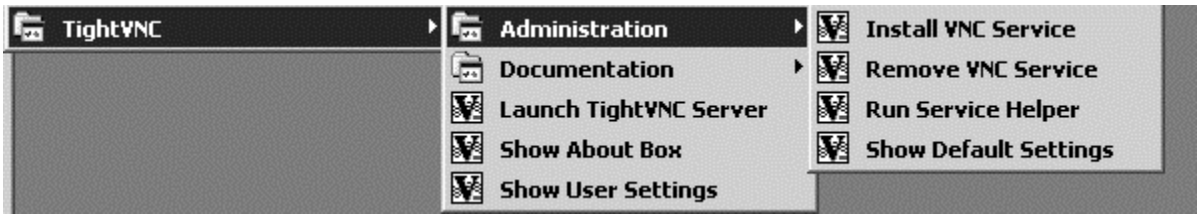


Figure 18

5. In **My Compute**r, right click **Manage>Services and Applications>Services.**

6. Check to make sure that the **VNC Server** service has **Started** and is set to **Automatic**, as shown in Figure 19.

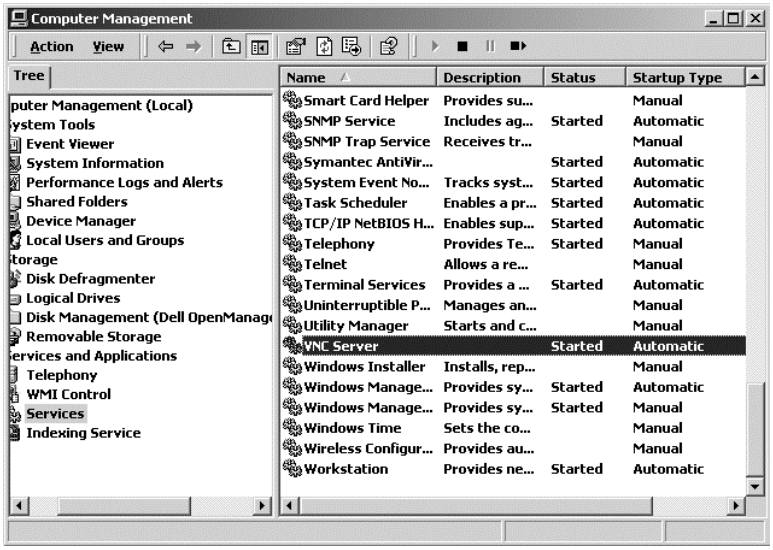


Figure 19

4.5 Installing VNC Viewer software on a service laptop

1. Load the Installation CD.
2. In the VNC directory, double-click on **tightvnc-1.2.9-setup.exe** to launch the installer.
3. In the **TightVNC Setup Wizard** window, confirm that the version is 1.2.9 as shown in Figure 8.
4. Click **OK**.
5. Perform the same steps shown in Figure 9 and Figure 10.
6. Check only **TightVNC Viewer** as shown in Figure 20.

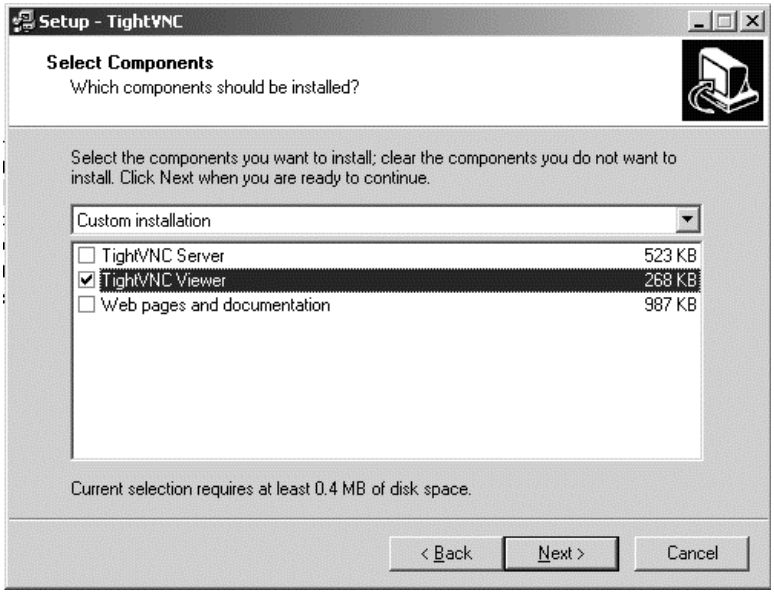


Figure 20

7. Accept the default Start Menu folder as shown in Figure 21 and click **Next**.

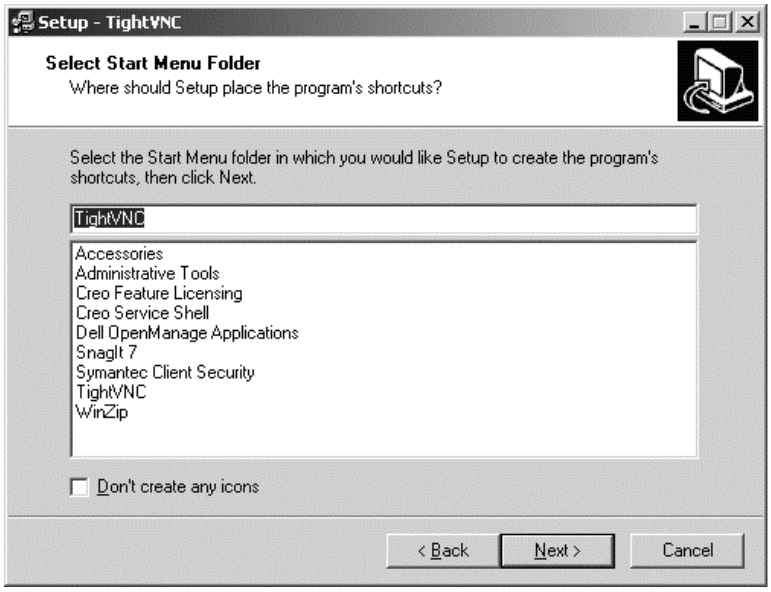


Figure 21

8. Check **Associate .vnc files with TightVNC Viewer** as shown in Figure 22 and then click **Next**.

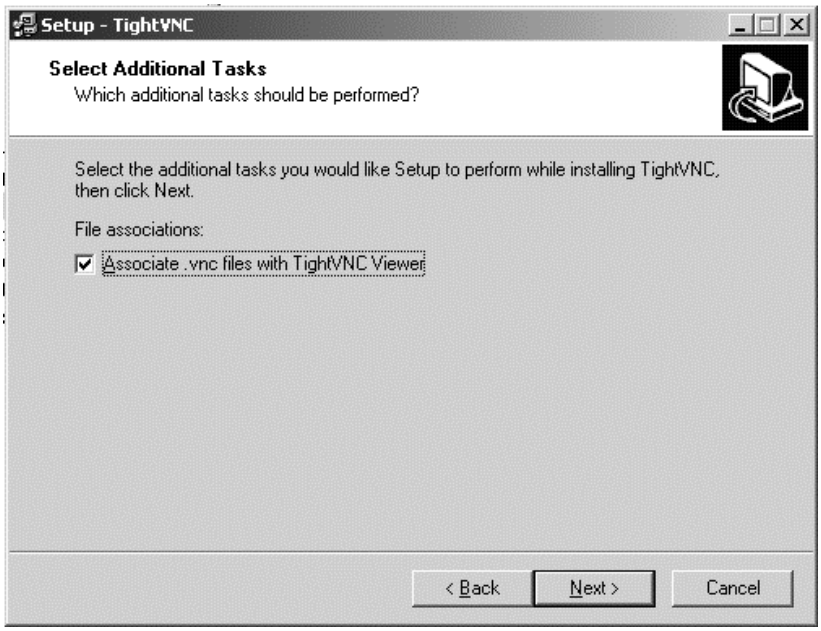


Figure 22

9. Confirm that the information is correct and then click **Install**.

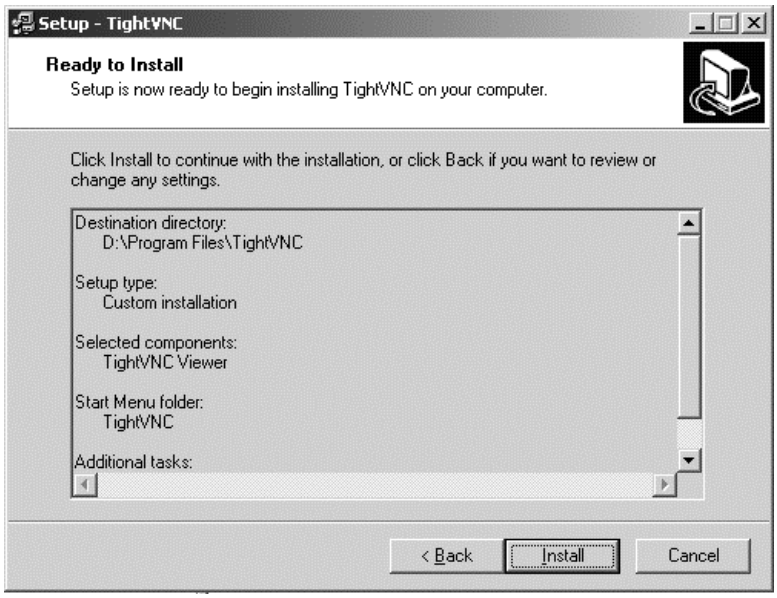


Figure 23

10. Click **Finish** to complete the installation.

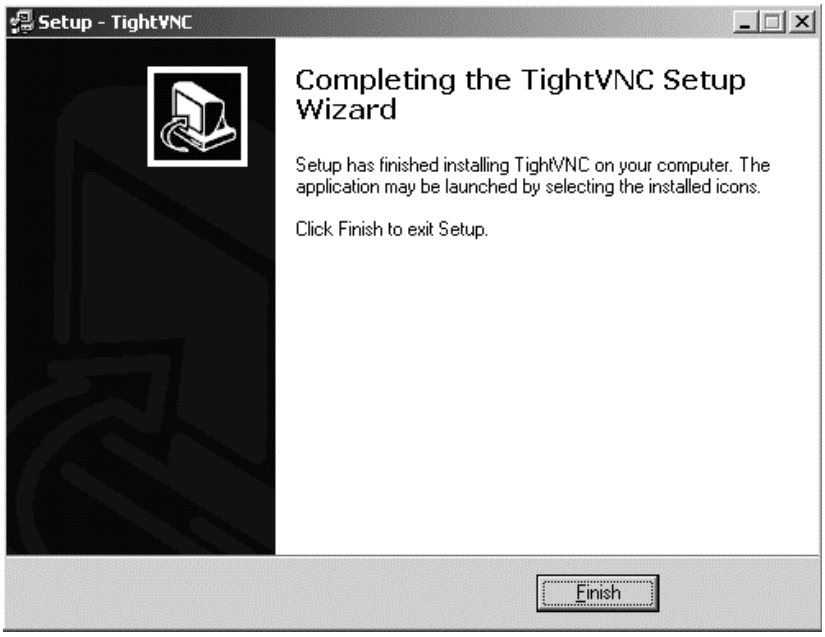


Figure 24

4.6 Connecting a crossover cable between a service laptop and a workstation

Connect one end of the crossover cable (part number 216-00150) to the RJ45 connector on the back of the *Intel* Pro 100 adapter and connect the other end to the RJ45 connector on the laptop.

Note: At customer sites with remote workstations, the customer should supply the cable and the cable should be available next to the device.

4.7 Testing the connection

1. Open a command prompt window:

   Start>Run

   Type **cmd**

2. In the command window, type **ping 169.254.255.1**

   If unsuccessful, the response string will be:

   D:\My Documents\Desktop>ping 169.254.255.1

   Pinging 169.254.255.1 with 32 bytes of data:

   Request timed out.

   Request timed out.

   Request timed out.

   Request timed out.

   Ping statistics for 169.254.255.1:

   Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

   If successful, the response string will be:

   D:\My Documents\Desktop>ping 169.254.255.1

   Pinging 169.254.255.1 with 32 bytes of data:

   Reply from 169.254.255.1: bytes=32 time<1ms TTL=128

   Reply from 169.254.255.1: bytes=32 time<1ms TTL=128

   Reply from 169.254.255.1: bytes=32 time<1ms TTL=128

   Reply from 169.254.255.1: bytes=32 time<1ms TTL=128

   Ping statistics for 169.254.255.1:

   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

   Approximate round trip times in milli-seconds:

   Minimum = 0ms, Maximum = 0ms, Average = 0ms

3. On the service laptop, start VNC Viewer.



Figure 25

4. Enter the IP address **169.254.255.1** assigned to the Service Laptop adapter, and click **OK**.

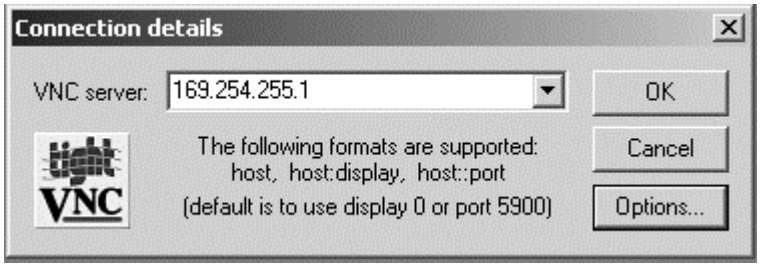


Figure 26

5. Enter password **creo0rc** to connect to the workstation.



Figure 27