



Upgrading the I-O TC4000 Thin Client Firmware Using FTP

V1.11

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WBT100-QMAN02-111

Overview

The process of updating the thin client's firmware by FTP requires installing FTP services on a Windows 2000 PC, booting the thin client to FTP download mode, installing inControl and downloading the sample configurations.

The following instructions must be performed accurately, or damage may occur to the flash module in your thin client requiring return of the unit to I-O.

Requirements:

- Windows 2000 Professional, Server or Advanced Server installed on a PC.
- Ethernet link between the thin client and the Windows PC
- I-O TC4000 Thin Client
- I-O TC4000 Thin Client Utility CD
- I-O 122-Key Thin Client Keyboard

Set up Windows 2000 as an FTP Server

The following set of instructions are copied from Microsoft's *Article Q300662 – HOW TO: Set Up Windows 2000 as an FTP Server*. For additional information on this process, refer to Microsoft's documentation.

Installing Internet Information Services

Because FTP depends on Internet Information Services (IIS), you must first make sure that IIS is installed. To install IIS and the FTP service, follow these steps:

1. Click **Start**, point to **Settings**, and then click **Control Panel**.
2. In **Control Panel**, double-click **Add/Remove Programs**.
3. Select **Add/Remove Windows Components**.
4. In the Windows Components Wizard, select **Internet Information Services (IIS)**, then click **Details**.
5. Select **Common Files, Documentation, File Transfer Protocol (FTP) Server, and Internet Information Services Snap-In**, and then click **OK**.
6. Click **Next**.
7. If you are prompted to configure Terminal Services, click **Next**.
8. If you are prompted for a path for a FTP root folder, type a suitable folder path. The default is C:\inetpub\Ftproot. For additional security, an NTFS drive is preferred. Click **OK** to continue.
9. When you are prompted, insert the Windows 2000 CD or provide a path to the location of the files, and then click **OK**.
10. Click **Finish**.

IIS and the FTP service are now installed, but you must configure the FTP service before you can use it.

Configuring The FTP Service

1. Click **Start**, click **Programs**, click **Administrative Tools**, and then click **Internet Services Manager**. (In Windows 2000 Professional, you can access **Administrative Tools** from Control Panel.)
2. Click the plus sign (+) next to the server name.
3. Right-click **Default FTP Site**, and then click **Properties**.
4. Click the **Security Accounts** tab.
5. Select **Allow Anonymous Connections**, and then select **Allow Only Anonymous Connections**.
6. Click the **Home Directory** tab.
7. Select **Read** and **Log Visits**, and clear **Write**.
8. Click **OK** to save these settings.

9. Copy the I-O Thin Client firmware files into the c:\inetpub\ftproot directory.

The Windows FTP Server is now ready.

Set up the I-O TC4000 Thin Client for FTP Downloading

1. **Power up** the thin client.
2. As soon as the **I-O Splash** screen appears, press **ALT+U**. The thin client will reboot.
3. From the **Keyboard Layout** screen, select US English, press the **Enter** key.
4. **Select the IP address** of the thin client (pressing Tab moves to the next field):
 - Select “**Y**” to allow **DHCP** to assign the IP address automatically. At the **OK** prompt, press **Enter**.
 - Select “**N**” to **manually enter** the IP address and sub-net mask of the thin client. **Enter IP address and Sub-Net mask** of the thin client. At the **OK** prompt, press **Enter**.
5. The Terminal Software Upgrade Utility screen will appear (pressing Tab moves to the next field):
 - a. **Server IP Address:** Enter the IP address of the Windows 2000 FTP server.
 - b. **User Name:** Enter the User Name as “**Anonymous**”.
 - c. **Password:** Leave this field blank.
 - d. **Directory:** Leave this field blank if the firmware files are stored in the default FTP directory on the Windows FTP server (c:\inetpub\ftproot). Otherwise, enter the location on the Windows 2000 FTP server where you stored the firmware files.
 - e. At the **Download** prompt, press **Enter**.
6. The download will take about approximately 1 to 2 minutes.
7. At the successfully downloaded message screen, **press any key** to reboot the thin client.

If the download process was successful, there will be an I-O Printer entry on the Terminal Connection Manager screen when the thin client reboots.

Set Up the I-O TC4000 Thin Client with Sample Printer and 122-Key Keyboard Connections

You will need to download the sample printer and keyboard connections. This process is accomplished by installing the inControl remote administrative software on the Windows 2000 PC, and then downloading the sample connection file to the thin client.

1. **Install inControl** remote administrative software on the Windows 2000 PC. See the inControl Administrator’s User’s Guide on the utility.
2. **Power up** the display and thin client, and **follow the wizard**. (See the Quick Setup Guide.)
3. At the **IP Address** screen of the setup wizard, **select** one of the following:
 - If using **DHCP**, allow DHCP to automatically assign the IP address, **or**
 - **Manually assign** an IP address, and subnet mask that are in the same sub-net mask as the inControl PC.
4. **Restart** the thin client.
5. At the **Windows NT/2000 PC** running **inControl**, **scan** for the thin client.
6. Select the **Import** option, highlight the “**Sample Printer and 122-Key Connections.vz**” file.
7. **Select** the target thin client and **activate** the import process.
8. At the thin client, if prompted, **restart** the thin client.
9. After the thin client reboots, one printer and three pre-configured display sessions will be installed.
10. **Follow** the instructions in the **Quick Setup Guide** to complete the configuration of the display and printer connections.

The thin client is now ready for use.