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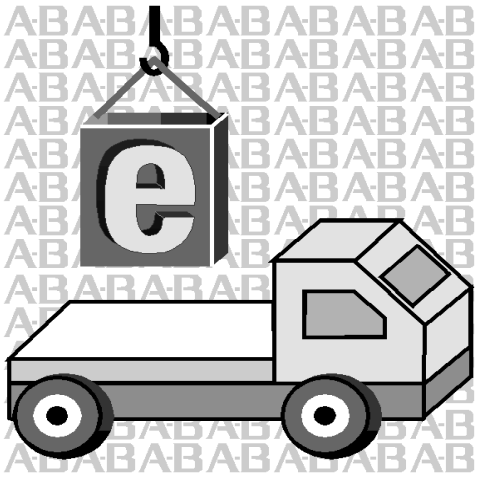
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Allen-Bradley

# PanelView™ 1200/1400e Transfer Utility

# User Manual

*(Cat. No. 2711E–ND7)*



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- recognize the consequences

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# Preface

Welcome to the Allen-Bradley PanelView 1200/1400e Transfer Utility. With this software, you can transfer PanelBuilder applications to and from an IBM-compatible personal computer and PanelView 1000e, 1200, 1200e, and 1400e operator terminals.

You can transfer applications created in PanelBuilder Development Software for DOS, PanelBuilder 1200 Configuration Software for Windows, or PanelBuilder 1400e Configuration Software for Windows.

**Note:** The screen illustrations in this manual are from the Windows NT environment. The appearance of Windows 95 screens are the same as the Windows NT screens. There are slight differences in the appearance of the Windows 3.1 screens but the functionality remains identical in either system.

## Before You Begin

Before you begin you should be familiar with:

- Microsoft® Windows NT™ 4.0, or Microsoft® Windows 3.1 or later, or Windows 95 operating system (to install or run from Windows)
- Microsoft® MS-DOS® 3.0 or later. If you're working with Windows, you should be familiar with MS-DOS 3.3 or later.

## Purpose of This Manual

The *PanelView 1200/1400e Transfer Utility User Manual* describes the methods of transferring application and alarm history files between the computer and the PanelView terminal. The computer must have the PanelView 1200/1400e Transfer Utility installed. This user manual also provides step-by-step instructions for each method.

### Contents of This Manual

| Chapter | Title | Contents |
|---|---|---|
| | Preface | An overview of this manual and a list of related publications. |
| 1 | Introducing the PanelView 1200/1400e Transfer Utility | Introduces the PanelView 1200/1400e Transfer Utility and the methods of transferring PanelBuilder applications. |
| 2 | Working with the PanelView 1200/1400e Transfer Utility | Step-by-step instructions for installing the PanelView 1200/1400e Transfer Utility and starting it for the first time. Also includes instructions for exiting from the utility. |



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| Chapter | Title | Contents |
|---|---|---|
| 3 | Uploading 1000e/1200e/1400e Application Files and Alarm History Files | Explains how to upload application files and alarm history files using serial transfer, direct transfer for DH+, ControlNet and Ethernet, and Remote I/O Pass-Through transfers. |
| 4 | Downloading 1000e/1200e/1400e Application Files | Explains how to download application files using the various transfer methods. |
| 5 | Configuring Communications Settings for 1000e/1200e/1400e Application Transfers | Explains how to set the common communication parameters for uploading and downloading files. |
| 6 | Troubleshooting for the PanelView 1200/1400e Transfer Utility | Explains how to diagnose and solve problems you might encounter when using the PanelView 1200/1400e Transfer Utility. |

**Note:** This manual contains brief information about installing the DOS transfer utility for the PanelView 1200 terminal. For complete information about the DOS utility, refer to the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-821).

For information on transferring PanelBuilder 1200 application files with user PROMS, or for information about PanelBuilder 1200 PCMCIA card transfers, refer to the *PanelBuilder 1200 Configuration Software for Windows User Manual* (Publication Number 2711-810) or the *PanelView 1200 Operator Terminals User Manual* (Publication Number 2711-812).

## Related Publications

The following publications contain additional information about the PanelBuilder application as well as about PanelView terminals operation. Contact your local Allen-Bradley office or distributor for copies of any of these publications.

| For | See | Publication Number |
|---|---|---|
| An explanation of the methods of transferring application files between the computer containing the PanelBuilder application and the PanelView 1200 terminal, and step-by-step instructions for each method. | *PanelView 1200 Transfer Utility User Manual* | 2711-811 |
| Comprehensive instructions for working with the PanelBuilder 1400e Configuration Software application. | *PanelBuilder 1400e Configuration Software for Windows User Manual* | 2711E-819 |
| In-depth information about the objects that you can create for application screens. | *PanelBuilder 1400e Screen Objects Reference Manual* | 2711E-820 |



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| For | See | Publication Number |
|---|---|---|
| Comprehensive instructions for working with the PanelBuilder 1200 Configuration Software application. | *PanelBuilder 1200 Configuration Software for Windows User Manual* | 2711-810 |
| Information about installing, configuring, maintaining, and troubleshooting PanelView 1200 operator terminals. Also includes specifications. | *PanelView 1200 Operator Terminals User Manual* | 2711-812 |
| Information for installing, configuring, maintaining, and troubleshooting PanelView 1000e, 1200e, and 1400e operator terminals. Also includes specifications for the terminals. | *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual* | 2711E-821 |
| A complete list of current Allen-Bradley documentation, including ordering instructions. Also indicates whether the documents are available on CD-ROM or in multiple languages. | *Allen-Bradley Publication Index* | SD499 |
| A glossary of industrial automation terms and abbreviations. | *Allen-Bradley Industrial Automation Glossary* | AG-7.1 |

## Technical Support Services

If you have questions about the PanelView 1200/1400e Transfer Utility, consult the online help and user documentation first. If you can't find the answer, take advantage of our Technical Support Fax Back system, available 24 hours a day, 7 days a week at 1-440-646-6701. Or, browse our technical document library on the World Wide Web at **http://www.ab.com/mem/prodserv/services/technotes/techmain.html**

Alternatively, contact:

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or call 1-440-646-6800 or fax 1-440-646-6890 for technical support between 8 AM and 5 PM (EST), Monday to Friday.


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- product technical training
- warranty support
- support service agreements

## Conventions Used in This Manual

The following conventions are used throughout this manual:

- Bulleted lists such as this one provide information, not procedural steps.
- Numbered lists provide sequential steps or hierarchical information.
- *Italic* type is used for emphasis.
- Text in `this font` indicates words or phrases you should type.

▶ We also use this arrow to call attention to helpful information.

## Transfer Utility Operating System Support

The PanelView 1200/1400e Transfer Utility can run on a 16-bit or a 32-bit operating system. When instructions apply specifically to one operating system or the other, this is noted in the margin:

**FTU**
- means instructions for the file transfer utility that runs on a 16-bit operating system only.

**FTU32**
- means instructions for the file transfer utility that runs on a 32-bit operating system only.

A margin that does not contain a note means the instructions apply to both FTU and FTU32.

The following table shows the primary differences between FTU and FTU32.

| | FTU | FTU32 |
|---|---|---|
| **Operating Systems** | Windows 3.1<br>Windows 95 | Windows NT<br>Windows 95 |
| **Supported Drivers** | INTERCHANGE<br>WINLINX | RSLinx |
| **Remote I/O Pass-Through Communications** | DH+<br>ControlNet | Ethernet<br>DH+<br>ControlNet |



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# Introducing the PanelView 1200/1400e Transfer Utility

This chapter introduces you to the PanelView 1200/1400e Transfer Utility, including:

- what the transfer utility is used for
- the methods of transferring application files
- tips for transferring files

## About the PanelView 1200/1400e Transfer Utility

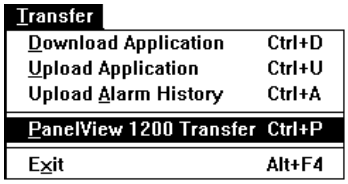
Use the PanelView 1200/1400e Transfer Utility to transfer PanelBuilder application files between a computer and the PanelView terminal. You can transfer application files created in PanelBuilder for DOS, PanelBuilder 1200 for Windows, or PanelBuilder 1400e for Windows. You can also use this utility to upload alarm history information from a PanelView 1000e/1200e/1400e terminal to the computer that the Transfer Utility runs on. Only Version 2 and later alarm history files can be uploaded.

The PanelView 1200/1400e Transfer Utility consists of two applications: PanelView 1200/1400e Transfer Utility and PanelView 1200 Transfer Utility (available only in versions earlier than Version 4).

The PanelView 1200/1400e Transfer Utility can be accessed by clicking the transfer utility icon in Windows NT, Windows 3.1, or Windows 95. The PanelView 1200 Transfer Utility can only be accessed if you are running the transfer utility from Windows 3.1 or Windows 95.




- **PanelView 1200/1400e Transfer Utility**—this is the main application, and is activated when you double-click the icon shown here

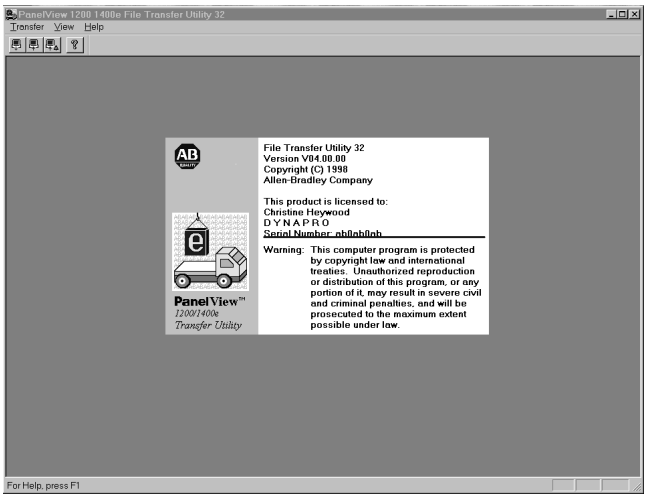



- **PanelView 1200 Transfer Utility**—this application, available only in versions earlier than Version 4, is included for transferring files to and from the PanelView 1200 terminals. The PanelView 1200 Transfer Utility is installed with the PanelView 1200/1400e Transfer Utility. Activate this utility by choosing PanelView 1200 Transfer from the Transfer menu. Context-sensitive help is not available for this utility. Refer to the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-811) for operational details.



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The following screen is displayed after you activate the application.




**Note:** PanelBuilder software does not need to be installed in order to do file transfers. You need only the PanelView 1200/1400e Transfer Utility.

## Types of Applications

You can transfer the following types of terminal application files using the PanelView 1200/1400e Transfer Utility:

- **files whose names end in .pvd**— files created in PanelBuilder 1400e for Windows. Files are created and edited as *.pvc. You then must save the file as a *.pvd to download it. These are PanelView enhanced 1200 (Series F and later) and 1000e/1200e/1400e terminal files.

FTU

- **files whose names end in .cfg**—files created in PanelBuilder Development Software for DOS and PanelBuilder 1200 for Windows. These are PanelView 1200 terminal files.

  PanelBuilder 1200 can create application files in several different formats. Make sure the *.cfg format is used. See the *PanelBuilder 1200 for Windows User Manual* for more information about saving application files in *.cfg format.



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## Types of Transfers

The PanelView 1200/1400e Transfer Utility does the following types of transfers:

- **downloading an application file**—Transferring an application file from the development computer to a PanelView terminal so the application can be run. PanelView 1200 and PanelView 1000e/1200e/1400e applications can be downloaded.
- **uploading an application file**—Transferring an application file from the PanelView terminal to the development computer that the PanelView 1200/1400e Transfer Utility is on so the application can be edited or archived. PanelView 1200 and PanelView 1000e/1200e/1400e applications can be uploaded.
- **uploading alarm history files**—Transferring the Alarm History File from the PanelView terminal to the development computer so the files can be analyzed or archived. Only PanelView enhanced 1200 (Series F and later) and 1000e/1200e/1400e V02.00.00 and later Alarm History files can be uploaded.

## Methods of Downloading and Uploading Applications and Alarm History Files

There are three methods for downloading and uploading applications and alarm history files:

- **Serial (RS-232) Upload/Download**—With the Upload/Download cable (A-B Catalog Number 2711-NC1 for PanelView 1200e/1400e terminals; A-B Catalog Numbers 2706-NC13, 2711-NC13, or 2711-NC14 for PanelView 1000e terminals)**,** you can upload or download applications or upload Alarm History files directly by connecting the serial ports on the computer and PanelView terminal. This is a serial file transfer.
- **Network Direct Upload/Download**—You can upload applications or Alarm History files once you have connected the PanelView terminal and computer to the DH+ or ControlNet network. You can download applications between the computer running the Transfer Utility and the PanelView terminal over the ControlNet or DH+ network without taking the terminal out of Run mode. Also, you can print from the PanelView terminal without changing the serial cabling of the terminal.

**FTU32**

For PanelView 1000e/1200e/1400e terminals, in order to do Direct Network downloads, you must use RSLinx drivers. RSLinx is included on floppy disks with your PanelBuilder 1400e software package (A-B Catalog Number 2711E-ND1) or Transfer Utility software package (A-B Catalog Number 2711E-ND7); you must install RSLinx separately. Refer to the table in Chapter 5 for a complete list of hardware and driver requirements.



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**FTU** For PanelView enhanced 1200 (Series F and later) and 1000e/1200e/1400e terminals, in order to do Direct Network downloads, you must use INTERCHANGE or WINtelligent LINX drivers. Contact your A-B Sales Representative for details. Refer to the table in Chapter 5 for a complete list of hardware and driver requirements.

**Note:** Refer to the *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual* for information about the ControlNet Communication Interface Card requirements for uploading and downloading over ControlNet.

- **Remote I/O Pass-Through**—Using Remote I/O Pass-Through, you can upload application files and Alarm History files over Remote I/O and then over DH+, ControlNet, or Ethernet.

  You can download a Remote I/O application between the PanelView terminal and computer without taking the terminal out of Run mode or changing the terminal's serial cabling. Also, you can print from the PanelView terminal without changing the serial cabling of the terminal.

**FTU 32** For PanelView 1000e/1200e/1400e terminals, in order to do Remote I/O Pass-Through downloads, you must use RSLinx drivers. RSLinx is included with your Transfer Utility software package; however, you must install RSLinx separately. Refer to the table in Chapter 5 for a complete list of hardware and driver requirements.

**FTU** For PanelView enhanced 1200 (Series F and later) and 1000e/1200e/1400e terminals, in order to do Remote I/O Pass-Through downloads, you must use INTERCHANGE or WINtelligent LINX drivers. Refer to the table in Chapter 5 for a complete list of hardware and driver requirements.

## Transferring Tips

Read this section when preparing to transfer an application.

### General

- For file transfers over ControlNet, DH+, or Remote I/O Pass-Through, be sure the PanelView terminal address and control byte is correct, otherwise the transfer could corrupt the PLC logic.
- For all direct transfers (serial or network direct), the communication parameters of the PanelView 1200/1400e Transfer Utility driver must match those being used by the PanelView terminal.
- Do not interrupt a download by cycling power during the operation.



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- Do not try to download application files from two development computers to the same location at the same time. Results are unpredictable.
- The PanelView terminal ignores all operator inputs and PLC outputs during the download. The current application screen is removed and the Transfer screen and progress bar are displayed.
- The rack assignments (for Remote I/O applications) or terminal network address (for DH+, ControlNet, and Ethernet) remain as they were set for the previous current application until the download is complete.

### For PanelView 1200 Terminal Transfers

When you upload an application from the PanelView 1200 terminal using the PanelView 1200 Transfer Utility, the current values for the object addresses are uploaded. Refer to the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-811) for more information.

### For PanelView 1000e, 1200e, or 1400e Terminals Transfers

- Before you download to PanelView 1000e, 1200e, or 1400e terminals, check the size of the application file (the .pvd file) to make sure it will fit in the terminal's memory or on the PCMCIA memory card. For more information, refer to Chapter 3, *Working with Applications* in the *PanelBuilder 1400e Configuration Software for Windows User Manual* (Publication Number 2711E-819).
- When you upload an application from the PanelView 1000e, 1200e, or 1400e terminals using the PanelView 1200/1400e Transfer Utility, the initial tag values of the application are uploaded, not its current values.
- When you upload an application from the PanelView 1000e, 1200e, or 1400e terminals to edit it in PanelBuilder, any of the following items that were originally in the downloaded application are not uploaded:
  - unused nodes
  - unused scan classes
  - unused tags
  - unused tag folders
  - unused graphic images
  - tag descriptions
  - variable names
  - comments in expressions


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- When the PanelView 1200/1400e Transfer Utility uploads a file, it creates a *.pvd file. PanelBuilder can open the .pvd file to create a .pvc file. When .pvd files are opened in PanelBuilder, the .pvd files are always regenerated as .pvc files with a private tag database.

FTU

## PanelView 1200/1400e Transfer Utility and INTERCHANGE

The PanelView 1200/1400e Transfer Utility supports the full range of INTERCHANGE serial and network drivers. The INTERCHANGE drivers allow ports and communication devices to be shared between PanelBuilder and other Allen-Bradley products such as the 6200-series PLC-5 Programming Software and PanelBuilder 900. INTERCHANGE drivers also support communication cards such as the KT and PCMK for DH+ communication. Contact your Allen-Bradley representative for more information on INTERCHANGE.

To use the INTERCHANGE drivers, install INTERCHANGE before setting up file transfer communications. The transfer utility displays the INTERCHANGE drivers as driver options, but you can use them only if INTERCHANGE is installed. The driver options INTERCHANGE Port 1 to INTERCHANGE Port 8 map to the eight ports supported by INTERCHANGE.

If you have INTERCHANGE Version 6.1.0 or later, you can select one of these options and call up the INTERCHANGE Device Configuration Utility from the PanelView 1200/1400e Transfer Utility. From the configuration utility you can view and change the configuration of any of the eight INTERCHANGE ports. Make sure the port you select for your driver is configured correctly for the communication device and settings. Refer to the INTERCHANGE Device Configuration Utility user documentation for information on using the utility.

If your version of INTERCHANGE is earlier than 6.1.0, you must view and configure the ports outside of the PanelView 1200/1400e Transfer Utility. Refer to your INTERCHANGE user documentation. Again, make sure the port you select is configured correctly for your communication device and settings.



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FTU

## PanelView 1200/1400e Transfer Utility and WINtelligent LINX

The PanelView 1200/1400e Transfer Utility supports WINtelligent LINX network drivers, Version 5.20.00 or later. The PanelView 1200/1400e Transfer Utility supports a subset of the WINtelligent LINX drivers—those used for appropriate DH+, ControlNet, and serial transfers. You can use these drivers to transfer files over DH+, ControlNet, RIO Pass-Through, or serial connection networks. Contact your Allen-Bradley Sales Representative for more information on WINtelligent LINX.

To use the WINtelligent LINX drivers, install them before setting up transfer communications. The PanelView 1200/1400e Transfer Utility displays the WINtelligent LINX drivers as driver options, but you can use them only if they are installed. Make sure the driver you select is configured correctly for the communication device and settings. You can open the WINtelligent LINX configuration utility from the Transfer Utility to configure your selected driver.

Refer to the *WINtelligent LINX for Allen-Bradley Programmable Controllers User's Guide* (Publication Number 9352-WABUG) for complete information.

**Important:** The PanelView 1200/1400e Transfer Utility works with INTERCHANGE only, WINtelligent LINX only, or with *both* INTERCHANGE and WINtelligent LINX installed on the same computer.

FTU32

## PanelView 1200/1400e Transfer Utility and RSLinx

The Transfer Utility does support RSLinx network drivers, Version 1.7 or later. RSLinx is included on floppy disks with your PanelBuilder 1400e software package (A-B Catalog Number 2711E-ND1) or Transfer Utility software package (A-B Catalog Number 2711E-ND7). The PanelView 1200/1400e Transfer Utility supports a subset of the RSLinx drivers—those used for appropriate DH+, ControlNet, Ethernet, or serial transfers. You can use these drivers to transfer files over DH+, ControlNet, Ethernet, Remote I/O Pass-Through, or serial connection networks. Refer to the RSLinx user documentation for more information.

If you use RSLinx drivers, install them before setting up transfer communications. The PanelView 1200/1400e Transfer Utility displays the RSLinx drivers as driver options, but you can use them only if they are installed. Make sure the driver you select is configured correctly for the communication device and settings. You can open the RSLinx configuration utility from the Transfer Utility to configure your selected driver.



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Chapter 2

# Working with the PanelView 1200/1400e Transfer Utility

This chapter provides instructions for setting up and using the PanelView 1200/1400e Transfer Utility, including:

- minimum hardware and software requirements
- installing and starting the PanelView 1200/1400e Transfer Utility
- exiting from the PanelView 1200/1400e Transfer Utility

The PanelView 1200/1400e Transfer Utility has context-sensitive online help that you can access at any time by pressing **F1** on your keyboard. For general help, click the icon  in the utility's toolbar.

For information on how to set up and use the PanelView 1200 Transfer Utility, see the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-811).

## System Requirements

You need the following hardware and software to install the PanelView 1200/1400e Transfer Utility from the disks.

**Hardware and Software Requirements**

| Requirements | FTU | FTU32 |
|---|---|---|
| Hardware | A personal computer with a 25-MHz, 386-DX or higher microprocessor, with a recommended minimum of 8-MB RAM | A personal computer with a 50-MHz, 486-DX or higher microprocessor, with a recommended minimum of 16-MB RAM |
| | CD-ROM drive (recommended) | CD-ROM drive (recommended) |
| | A fixed disk with 10 MB of free space | A fixed disk with 10 MB of free space |
| | An 8-MB swap file | An 8-MB swap file |
| | A 3.5-inch high-density (1.44-MB) disk drive | A 3.5-inch high-density (1.44-MB) disk drive |
| | An RS-232 serial port for uploading or downloading applications, or other communication cards listed later in this chapter | An RS-232 serial port for uploading or downloading applications, or other communication cards listed later in this chapter |
| | A standard VGA (640 by 480) display adapter configured for at least 16 colors | A standard VGA (640 by 480) display adapter configured for at least 16 colors |
| | A mouse or pointing device supported by Windows | A mouse or pointing device supported by Windows |
| Software | Microsoft Windows Version 3.x or Windows 95 | Microsoft Windows NT Version 4.0, or Windows 95 |
| | Microsoft MS-DOS Version 3.3 or above | |



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## PanelBuilder Applications

For details on PanelBuilder, see *Types of Applications* in Chapter 1.

## PanelView Terminals

You must have one or more PanelView terminals. Table 2.B lists the terminal products and their catalog numbers.

**PanelView Terminal Products and Catalog Numbers**

| Catalog Number | Product | Description |
|---|---|---|
| 2711E-T10C6 | 1000e Touch Screen Terminal | Color display, clip mount, NEMA 4X |
| 2711E-K10C6 | 1000e Keypad Terminal | Color display, clip mount, NEMA 4X |
| 2711E-T10C7 | 1000e Touch Screen Terminal | ControlNet 1.25 enhanced 2711E-T10C6 terminal |
| 2711E-K10C7 | 1000e Keypad Terminal | ControlNet 1.25 enhanced 2711E-K10C6 terminal |
| 2711E-T10C15 | 1000e Touch Screen Terminal | ControlNet 1.5 enhanced 2711E-T10C6 terminal |
| 2711E-K10C15 | 1000e Keypad Terminal | ControlNet 1.5 enhanced 2711E-K10C6 terminal |
| 2711-KA1 | 1200 Keypad Terminal | Amber display |
| 2711-KC1 | 1200 Keypad Terminal | Color display |
| 2711-TA1, TA4 | 1200 Touch Screen Terminal | Amber display |
| 2711-TC1, TC4 | 1200 Touch Screen Terminal | Color display |
| 2711E-T12C6 | 1200e Touch Screen Terminal | Color display, clip mount, NEMA 12 |
| 2711E-T12C4 | 1200e Touch Screen Terminal | Color display, stud mount, NEMA 4X (Indoor use only) |
| 2711E-K12C6 | 1200e Keypad Terminal | Color display, stud mount, NEMA 4X (Indoor use only) |
| 2711E-K12C6L2 | 1200e Keypad Stainless Steel Terminal | Color display, stud mount, stainless steel bezel, NEMA 4X (Indoor use only) |
| 2711E-T14C6 | 1400e Touch Screen Terminal | Color display, stud mount, NEMA 4X (Indoor use only) |
| 2711E-K14C6 | 1400e Keypad Terminal | Color display, stud mount, NEMA 4X (Indoor use only) |
| 2711E-T14C7 | 1400e Touch Screen Terminal | ControlNet 1.25 enhanced 2711E-T14C6 terminal |
| 2711E-K14C7 | 1400e Keypad Terminal | ControlNet 1.25 enhanced 2711E-K14C6 terminal |
| 2711E-T14C15 | 1400e Touch Screen Terminal | ControlNet 1.5 enhanced 2711E-T14C6 terminal |
| 2711E-K14C15 | 1400e Keypad Terminal | ControlNet 1.5 enhanced 2711E-K14C6 terminal |
| 2711-NC1 | Upload/Download Cable | For 1200/1200e/1400e terminals. Includes a 9-pin or 25-pin RS-232 serial cable (Upload/Download cable) to transfer files between terminal and development computer. The cable is 10 ft (3.1 m) long. |



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| Catalog Number | Product | Description |
|---|---|---|
| 2711-NC13 | Upload/Download Cable | For 1000/1000e terminals only. Includes a 9-pin RS-232 serial cable (Upload/Download cable) to transfer files between terminal and development computer. The cable is 16.4 ft (5 m) long. |
| 2711-NC14 | Upload/Download Cable | For 1000/1000e terminals only. Includes a 9-pin RS-232 serial cable (Upload/Download cable) to transfer files between terminal and development computer. The cable is 32.7 ft (10 m) long. |
| 2706-NC13 | Upload/Download Cable | For 1000/1000e terminals only. Includes a 9-pin RS-232 serial cable (Upload/Download cable) to transfer files between terminal and development computer. The cable is 10 ft (3 m) long. |

## Equipment Required for Transferring Applications

This section describes the equipment required to perform the following application transfers:

- serial transfer
- DH+ network direct transfer
- ControlNet network direct transfer
- Remote I/O Pass-Through transfer

### Serial Upload/Download

To transfer applications serially, you need an RS-232 Serial (Upload/Download) cable (A-B Catalog Numbers 2706-NC13, 2711-NC13, 2711-NC14 for PanelView 1000e terminals; 2711-NC1 for PanelView 1200/1200e/1400e terminals) for connecting the computer to the PanelView terminal.

**FTU32**

The 1200e/1400e Transfer Utility can transfer applications serially without using the RSLinx drivers.

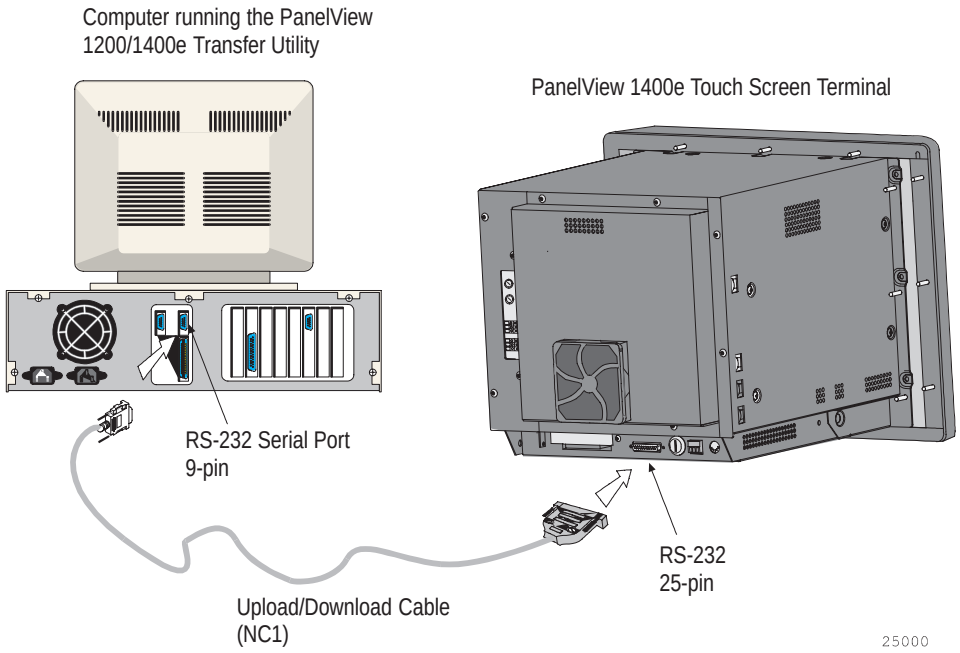
**FTU**

Both the 1200 and 1200e/1400e Transfer Utility can transfer applications serially without using INTERCHANGE or WINtelligent LINX drivers. For information on PanelView 1200 serial transfers, see the PanelView 1200 Transfer Utility User Manual (Publication Number 2711-811).



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**Figure 2.1 Connecting the Upload/Download Cable**




## DH+ Network Direct Transfers

You need one of the following Allen-Bradley Data Highway Plus (DH+) interface modules to transfer applications over a DH+ network:

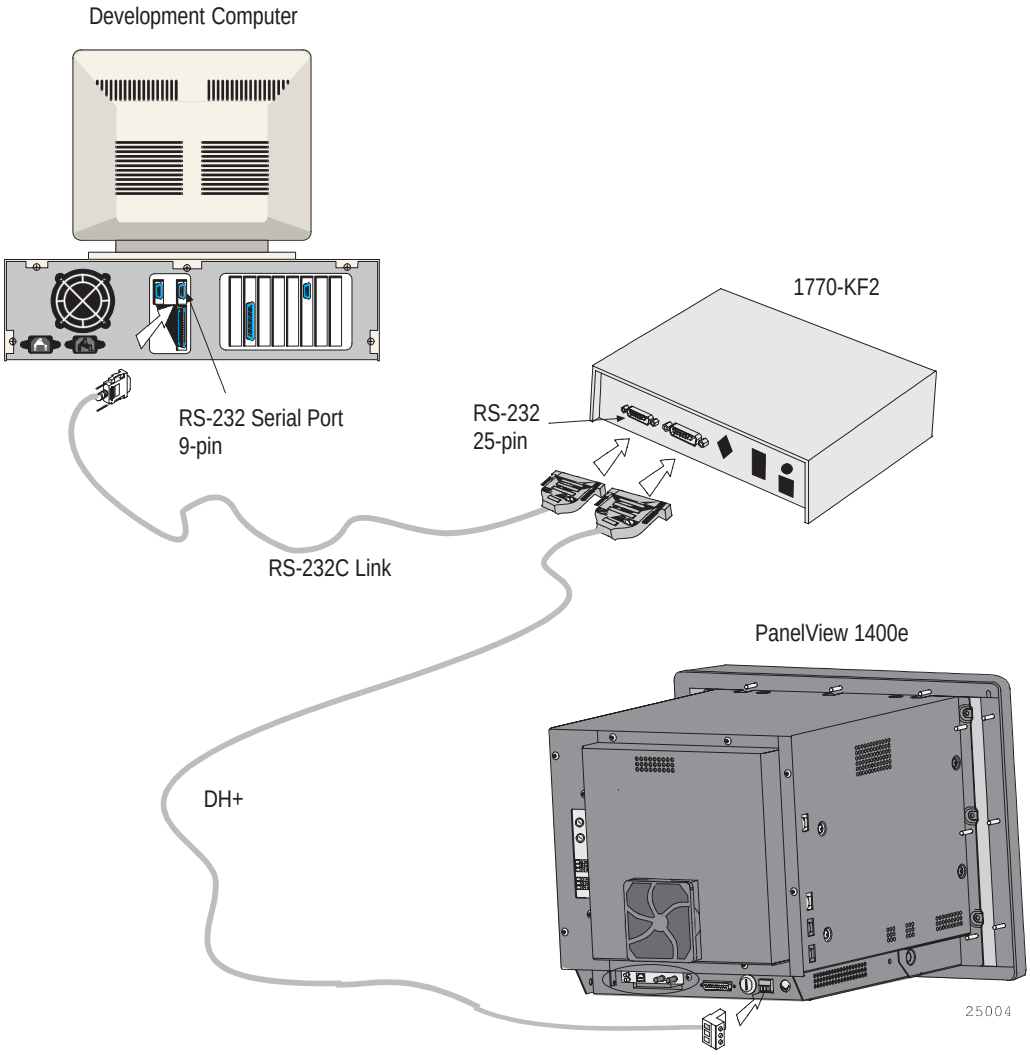
| FTU | FTU32 |
|---|---|
| 1770-KF2/1785-KE | 1770-KF2/1785-KE |
| 1784-KL | 1784-KL |
| 1784-KT | 1784-KT |
| 1784-KT2 | 1784-KT2 |
| 1784-KTK1 | 1784-KTK1 |
| 1784-PCMK | 1784-PCMK |
| 1784-KTX | 1784-KTX |
| For 1000e/1200e/1400e terminals, INTERCHANGE and WINtelligent LINX drivers are required. | For 1000e/1200e/1400e terminals, RSLinx drivers are required. |
| For 1200 terminals, Pass-Through drivers are built into the Transfer Utility. See the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-811). | For 1000e/1200e/1400e terminals, RSLinx drivers are required. |

To download over a DH+ network, the development computer and PanelView terminal can be on the same network or on two different DH+ networks bridged by a DH+ network bridge.



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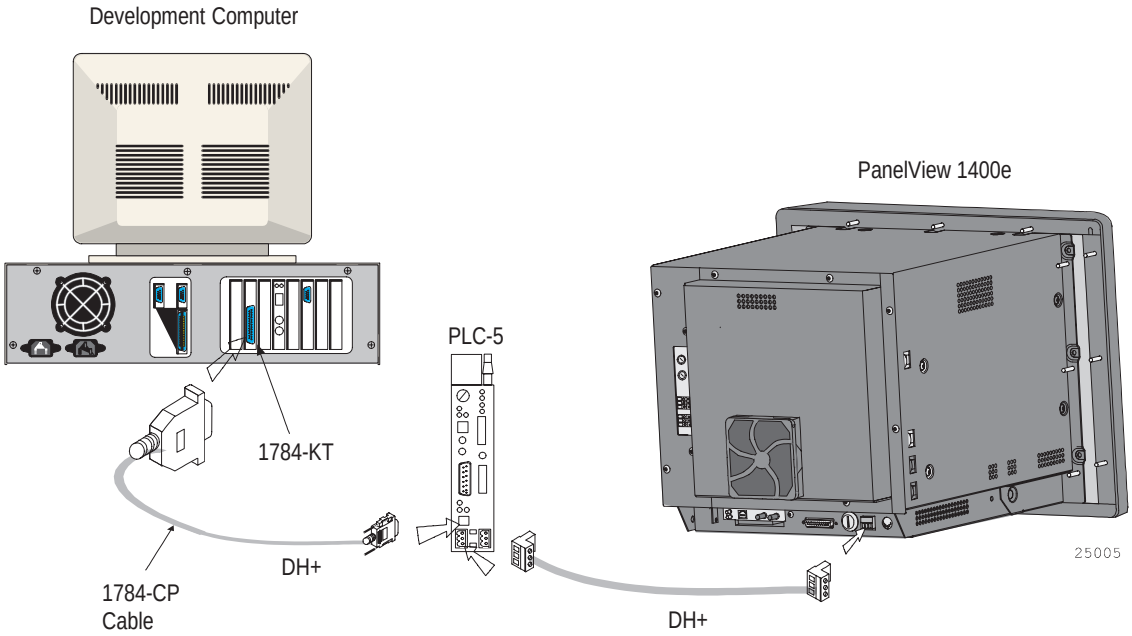
**Figure 2.2 DH+ Network Direct Download (with KF2)**






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**Figure 2.3 DH+ Network Direct Download (with 1784-KT card)**




## ControlNet Network Direct Transfers

The 1200/1200e terminals are not compatible with ControlNet. You need the following Allen-Bradley ControlNet Interface modules to transfer applications over ControlNet:

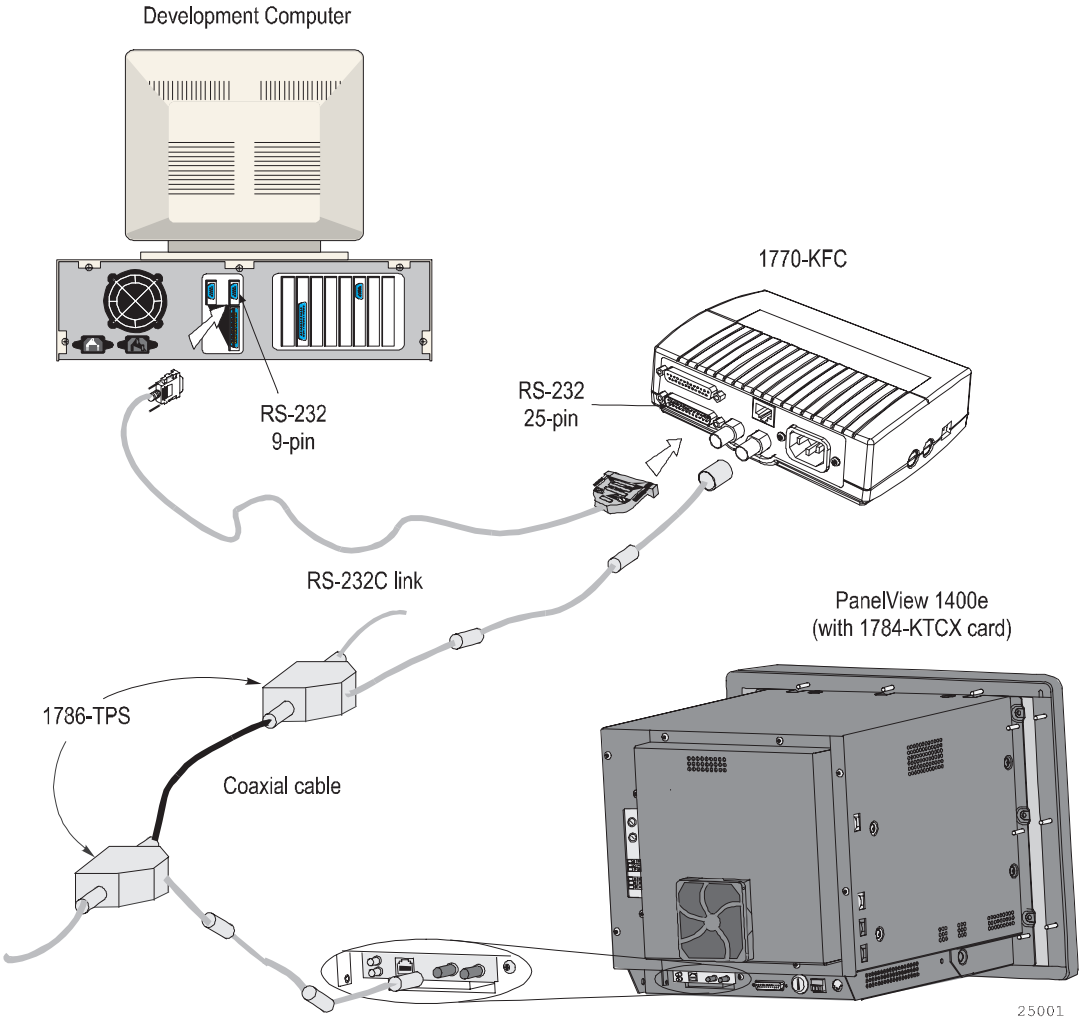
| FTU | FTU32 |
|---|---|
| 1784-KTCX (Series B or later) | 1784-KTCX (Series B or later) |
| 1784-KTC | 1784-KTC |
| 1770-KFC | 1770-KFC |
| INTERCHANGE or WINtelligent LINX | RSLinx |

To download over a ControlNet network, the PanelView terminal must be active on the same network as the development computer.



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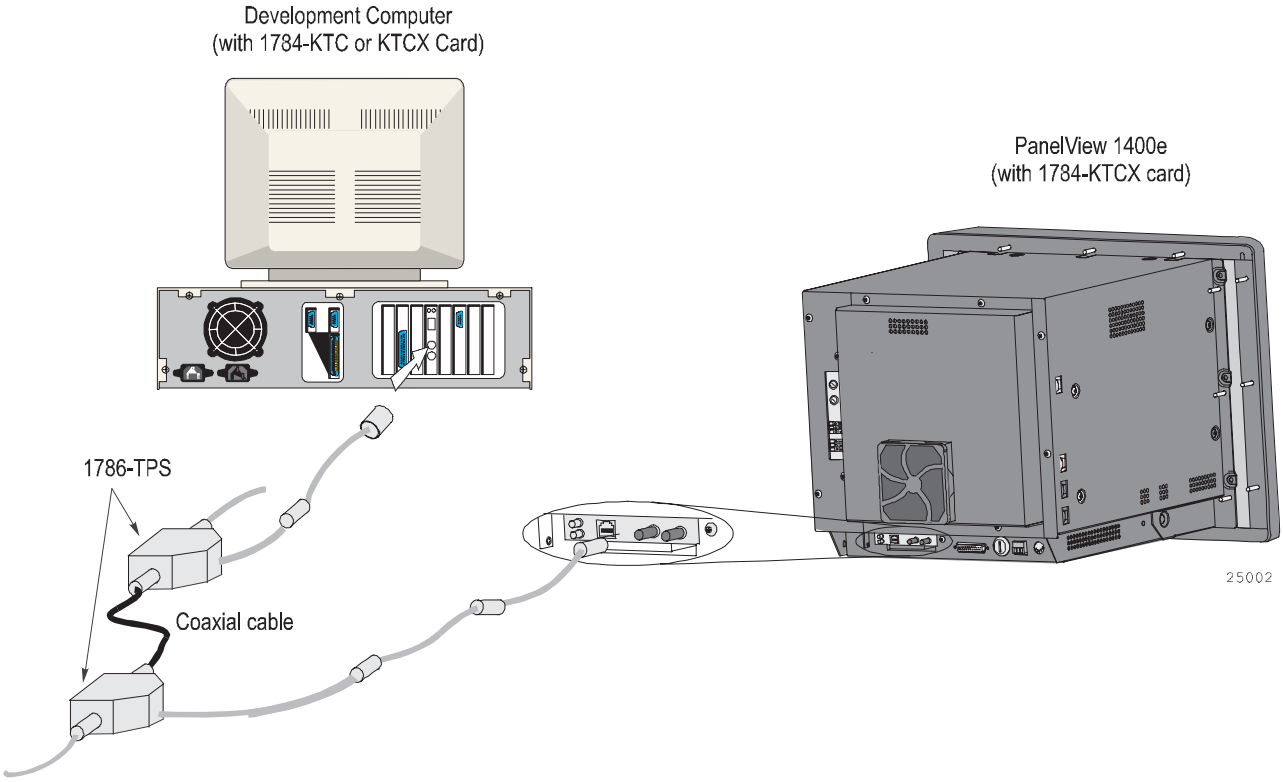
**Figure 2.4 ControlNet Network Direct Download (with 1770-KFC)**






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**Figure 2.5 ControlNet Network Direct Download (with 1784-KTC or KTCX card)**




## Remote I/O Pass-Through Transfers

The Remote I/O Pass-Through feature enables you to download a PanelBuilder Remote I/O application file from your computer over the Data Highway Plus (DH+), ControlNet, or Ethernet networks and then over the Remote I/O network, to a PanelView terminal. You can do this without connecting the serial cable to the terminal and without going from terminal to terminal with a PC.

You need the same equipment for Remote I/O Pass-Through transfers over either DH+ or ControlNet as listed previously for the two networks. In addition, you need one of the following:

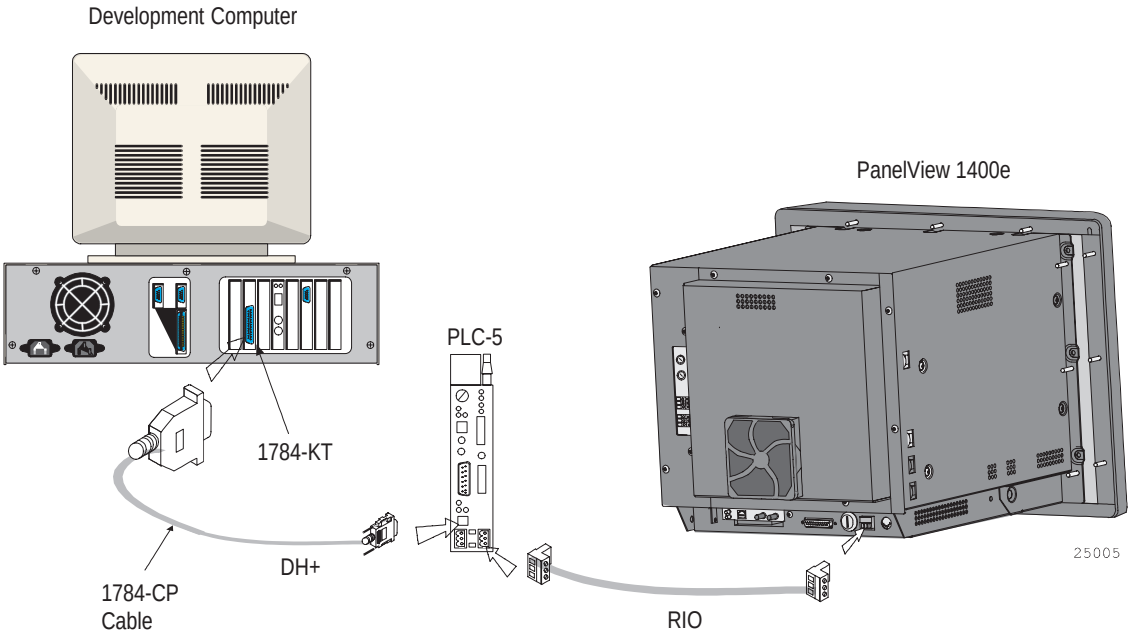


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| FTU | FTU32 |
|---|---|
| For a DH+ transfer, a PLC-5 or SLC-5/04 processor is required (for PLC/SLC series/revision requirements, refer to Chapter 5 of the *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*) | For a DH+ transfer, a PLC-5 or SLC-5/04 processor is required (for PLC/SLC series/revision requirements, refer to Chapter 5 of the *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*) |
| For a ControlNet transfer, a PLC-5 processor is required (for PLC series/revision requirements, refer to Chapter 5 of the *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*) | For a ControlNet transfer, a PLC-5 processor is required (for PLC series/revision requirements, refer to Chapter 5 of the *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*) |
| For 1000e/1200e/1400e terminals, INTERCHANGE or WINtelligent LINX is required | For an Ethernet transfer, a PLC-5 processor is required |
| | For 1000e/1200e/1400e terminals, RSLinx is required |

Figures 2.6 and 2.7 show how the application file is transferred from the development computer to the PLC controller and then to the PanelView terminal. Figure 2.8 shows how the application file is transferred through an Ethernet link, over the Remote I/O network, and then to the PanelView terminal.

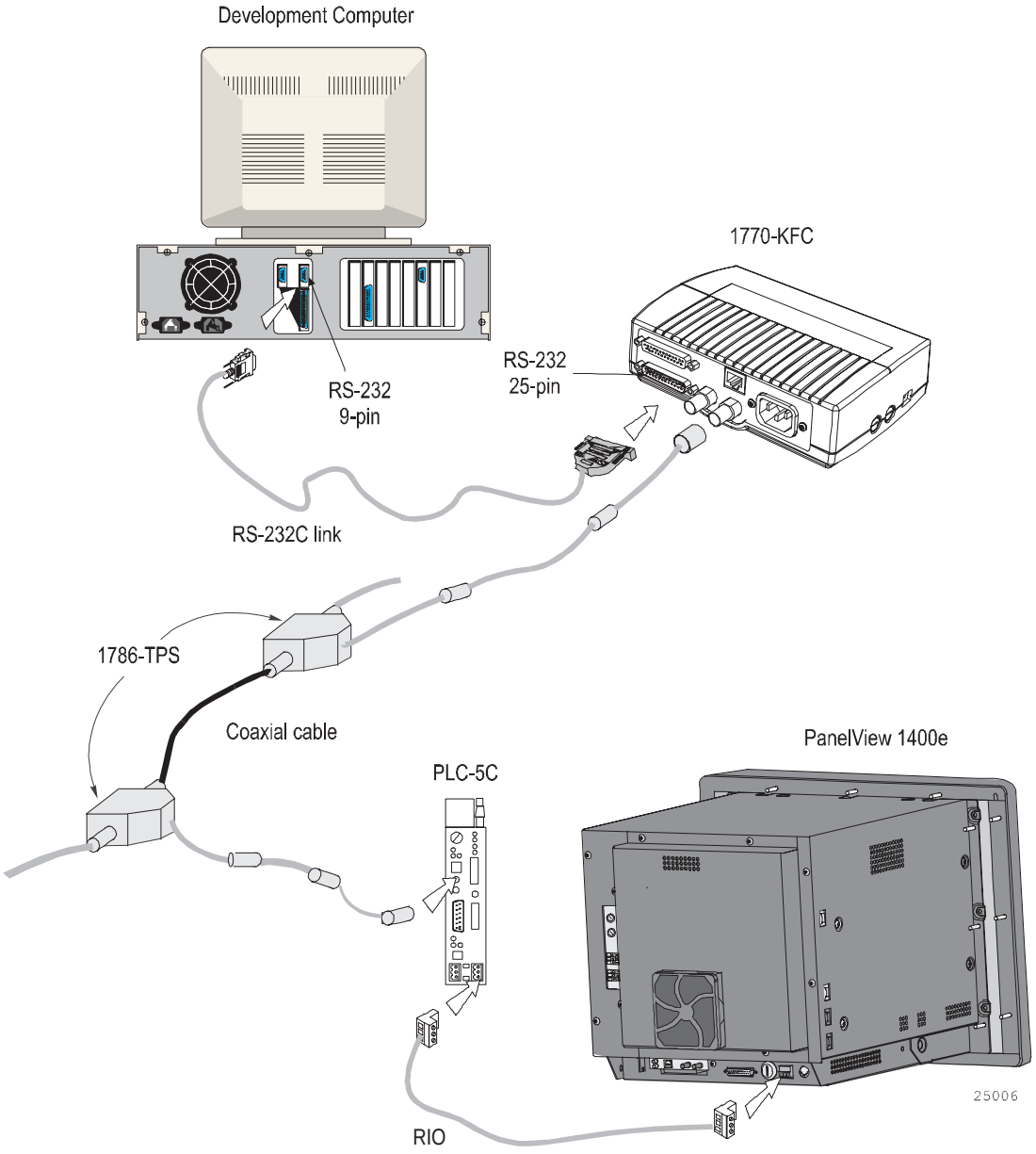
**Figure 2.6 Remote I/O Pass-Through on a DH+ Network**






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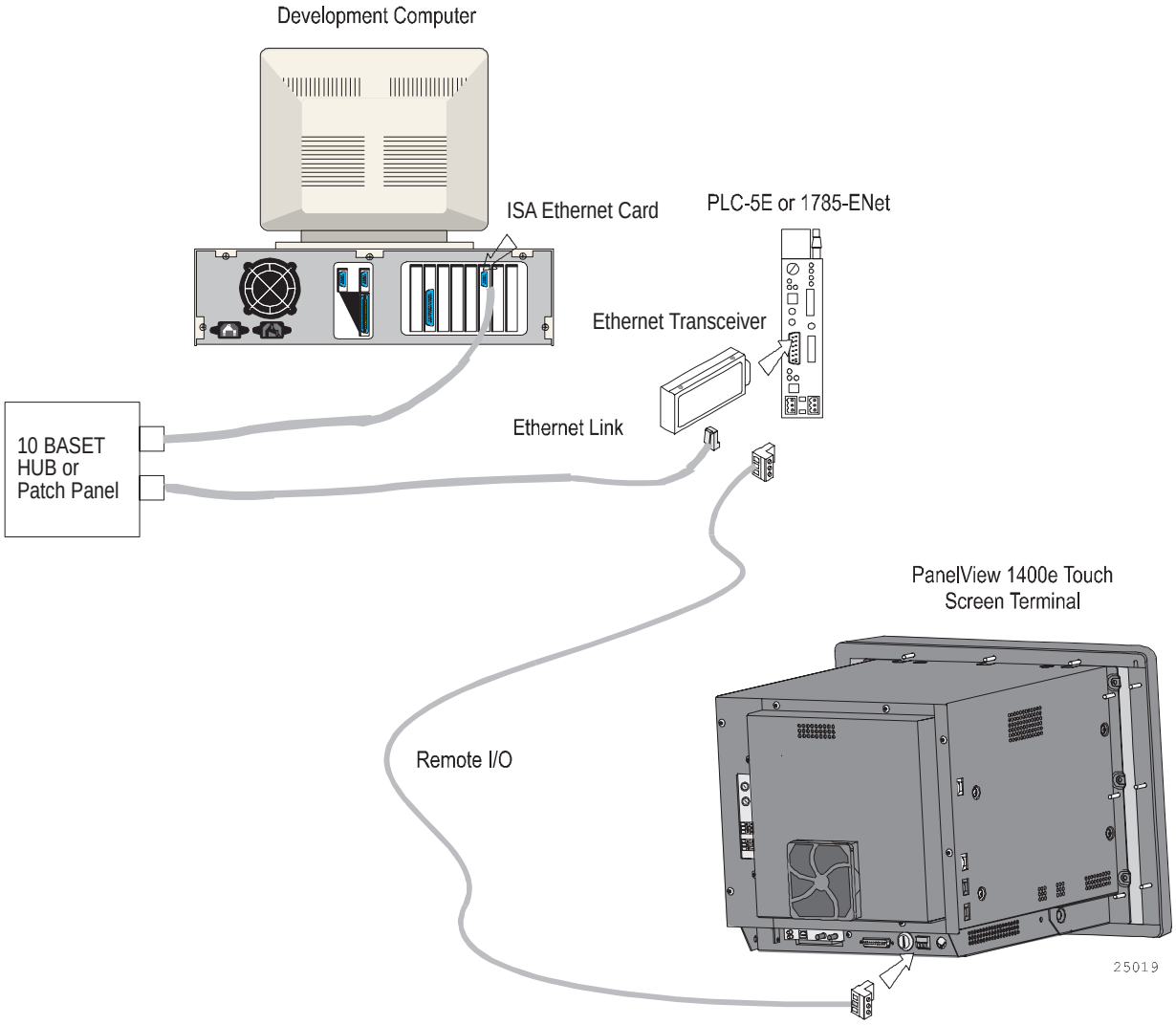
**Figure 2.7 Remote I/O Pass-Through on a ControlNet Network (with 1770-KFC)**






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**Figure 2.8 Ethernet Pass-Through**




## General Installation Information

You may install the PanelView 1200/1400e Transfer Utility software using the CD-ROM provided in the PanelBuilder 1400e software kit (A-B Catalog Number 2711E-ND1) or disks provided in the PanelView 1200/1400e Transfer Utility software package (A-B Catalog Number 2711E-ND7).

You may also obtain floppy disks of the PanelView 1200/1400e Transfer Utility software by creating them from the PanelBuilder 1400e CD or by sending in the Disk Request Fax Back Form available in the PanelBuilder 1400e software package (A-B Catalog Number 2711E-ND1).

For instructions on how to create floppy disks of the software from the PanelBuilder 1400e CD, refer to the Readme file, titled Floppies.txt, in the root directory of the PanelBuilder 1400e CD.



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The CD-ROM includes two install versions for the PanelView 1200/1400e Transfer Utility software:

- Version 3—This version offers you the PanelView 1200/1400e Transfer Utility (FTU) on an operating system that uses Windows 3.1 or later, or Windows 95. Version 3 supports INTERCHANGE and WINtelligent LINX drivers for PanelView 1000e, 1200, 1200e, and 1400e file transfers.
- Version 4—This version offers you the PanelView 1400e Transfer Utility (FTU32) software on an operating system that uses Windows 95 or Windows NT. Version 4 supports RSLinx drivers for PanelView 1000e, 1200e, and 1400e file transfers.

If your operating system is Windows 3.1 or later, the CD-ROM will install Version 3. If your operating system is Windows 95, you have a choice of installing Version 3 or Version 4. If your operating system is Windows NT, the CD-ROM will install Version 4.

## Installing FTU32 from CD-ROM on Windows NT or Windows 95

PanelView 1200/1400e Transfer Utility Version 4 (FTU32) is provided on the PanelBuilder 1400e CD-ROM. The software installation program creates a directory on your hard drive for the FTU32 and copies all necessary files to it. By default, the drive and directory is C:\AB\PB1400E\FTU32. You can change this default.

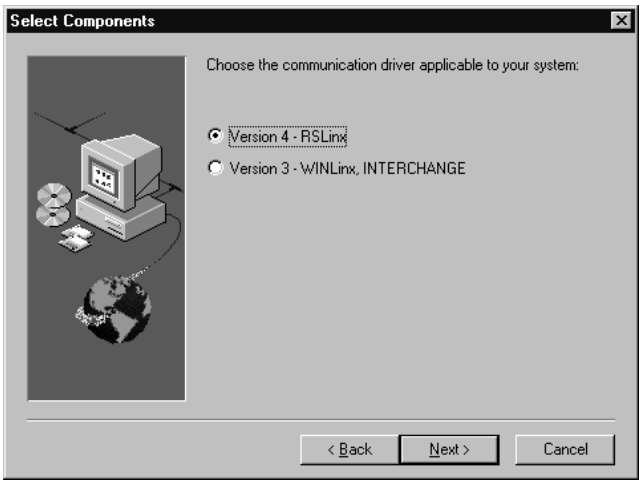
### To install FTU32:

1. Start Windows 95 or Windows NT. If you're already in Windows, close all open Windows applications.
2. Insert the CD-ROM in the drive.

   The CD-ROM begins to run automatically.
3. If the install does not start automatically, choose Run from the Start button and select setup.exe from the CD-ROM drive; or select setup.exe from Windows Explorer.
4. In the Welcome dialog box, choose Next.
5. If you are installing on Windows 95, the Select Components dialog box appears.



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The CD-ROM includes two install versions for the File Transfer Utility software:

- Version 3—This version offers you File Transfer Utility on an operating system that uses 3.1 or later, or Windows 95. Version 3 supports PanelView application file transfers over networks using INTERCHANGE and WINtelligent LINX software drivers.
- Version 4—This version offers you File Transfer Utility on an operating system that uses Windows 95 or Windows NT. Version 4 supports PanelView application file transfers over networks using RSLinx software drivers.

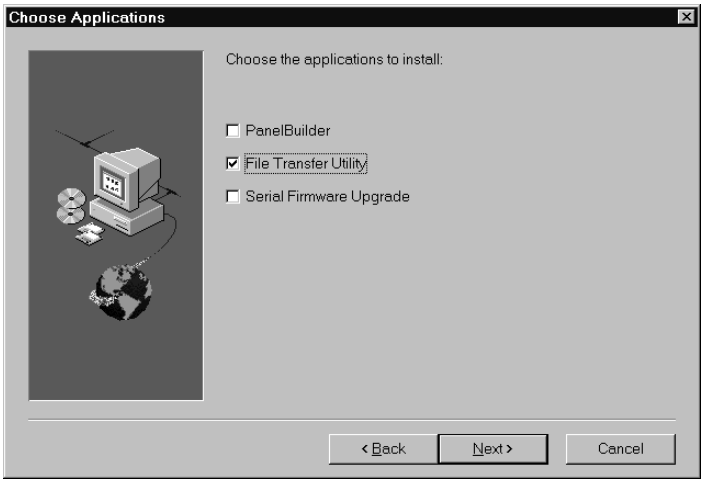
Version 4 for the Windows 95 operating system is recommended. If you choose Version 3, refer to “Installing FTU from CD-ROM on Windows 95 or Windows 3.x” in this chapter for instructions. Otherwise, continue by selecting Version 4, and then choose Next.

If you are installing on Windows NT, the Select Components dialog box does not appear. Version 4 is automatically selected.

**6.** In the Choose Applications dialog box, choose File Transfer Utility as the application you want to install. You can choose more than one application to install. Then choose Next.



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7. In the registration window, enter your user name and company name. After you enter the required information, choose Next.
8. In the confirmation window, verify the user information you have entered. Select Yes to proceed or No to edit the user information.
9. In the Welcome dialog box for the File Transfer Utility, it recommends that you close all open Windows applications. If you have done that, choose Next.

   If you have chosen other applications to install, the first selected application automatically begins to install.
10. In the FTU32 registration window, enter the serial number. You can obtain registration information from the software registration card that is in your PanelBuilder 1400e package (A-B Catalog Number 2711E-ND1) or PanelView 1200/1400e Transfer Utility package (A-B Catalog Number 2711E-ND7). Choose Next.
11. Choose the drive and directory in which the FTU32 will be installed. By default, this is C:\AB\PB1400E\FTU32. To change the destination drive or directory, type the new drive and/or directory in the Program Files field. Then choose Next.
12. Choose the program folder (program group) in which you want to install the FTU32's icons, which includes a Readme file icon, the Transfer Utility icon, and an Uninstall icon. By default, the icons are installed in the PanelBuilder 1400e program folder. Then choose Next.
13. Choose whether the installation utility will modify the AUTOEXEC.BAT file.

    If you are installing on Windows 95, the entry
    `C:\Progra~1\Rockwe~1\RDM;%Path%`
    is required in the PATH variable for the FTU32 to work correctly.


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If you are installing on Windows NT, the entry
`C:\Program Files\Rockwell Software\RDM`
is required in the PATH variable in the Environment tab of the System Properties dialog.

Choose Next to approve and continue.

14. The setup utility shows a summary of the choices you made in the preceding dialog boxes. To make any changes, choose the Back button. Otherwise, choose Next to begin the installation.

15. After all the applications have completed installing, you will be prompted to reboot your computer. You may reboot immediately or later, but you must reboot before you can run the File Transfer Utility or other applications successfully.

    After you finish installing the File Transfer Utility and you want to upload or download PanelView files over the PLC networks, you also need to install RSLinx Lite software, which is provided on 3.5-inch floppy disks. See the RSLinx user documentation provided for installation procedures.

Do not cancel the installation while it is in progress. If you want to undo the installation, let the installation finish, then use the Uninstall Transfer Utility to remove all the installed files and to update the registration.

## Installing FTU from CD-ROM on Windows 95 or Windows 3.x

PanelView 1200/1400e Transfer Utility Version 3 (FTU) is provided on the PanelBuilder 1400e CD-ROM. The software installation program creates a directory on your hard drive for the FTU and copies all necessary files to it. By default, the drive and directory is C:\AB\PB1400E\FTU. You can change this default.

### To install FTU:

1. Start Windows 95 or Windows 3.x. If you're already in Windows, close all open Windows applications.

2. Insert the CD-ROM in the drive.

   The CD-ROM begins to run automatically.

3. If the install does not start automatically and you are running on Windows 95, choose Run from the Start button and select setup.exe from the CD-ROM drive; or select setup.exe from Windows Explorer.

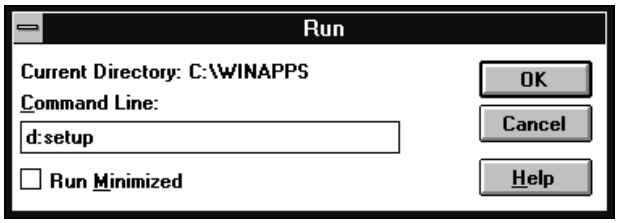


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If you are running on Windows 3.x, choose Run from the File menu. In the Run windows, type:

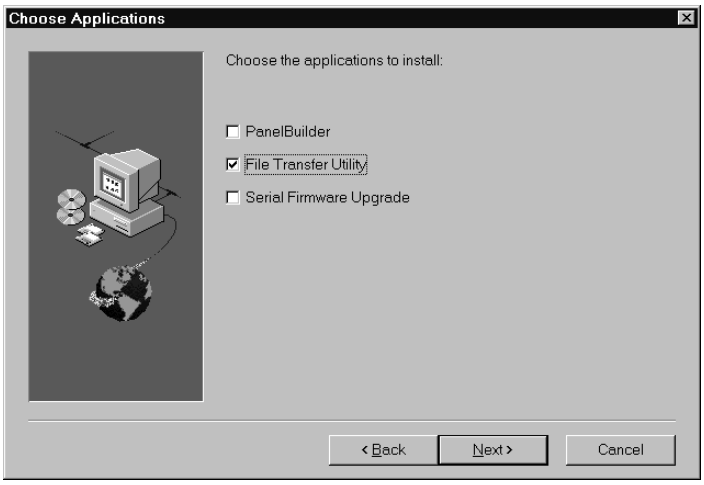
```
d:setup
```

where d is the drive containing the File Transfer Utility CD-ROM, and press Enter.




4. In the Welcome dialog box, choose Next.
5. If you are installing on Windows 95, the Select Components dialog box appears. Choose Version 3, and then choose Next.

   If you are installing on Windows 3.x, the Select Components dialog box does not appear. Version 3 is automatically selected.
6. In the Choose Applications dialog box, choose File Transfer Utility as the application you want to install. You can choose more than one application to install. Then choose Next.




7. In the Welcome dialog box for the File Transfer Utility, it recommends that you close all open Windows applications. If you have done that, choose Next.
8. In the registration window, enter the required information. You can obtain registration information from the software registration card that is in your PanelBuilder 1400e package. Choose Next.


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9. Choose the drive and directory in which the FTU will be installed. By default, this is C:\AB\PB1400E\FTU. To change the destination drive or directory, type the new drive and/or directory in the Program Files field. Then choose Next.

10. Choose the program folder (program group) in which you want to install the FTU's icons, which includes a Readme file icon, the Transfer Utility icon, and an Uninstall icon. By default, the icons are installed in the PanelBuilder 1400e program folder. Then choose Next.

11. Choose whether the installation utility will modify the AUTOEXEC.BAT file. The entry
`C:\RSI\CMN`
is required in the PATH variable for the FTU to work correctly.

    Then choose Next.

12. The setup utility shows a summary of the choices you made in the preceding dialog boxes. To make any changes, choose the Back button. Otherwise, choose Next to begin the installation.

13. After all the applications have completed installing, you will be prompted to reboot your computer. You may reboot immediately or later, but you must reboot before you can run File Transfer Utility or other applications successfully.

    After you finish installing the File Transfer Utility and you want to upload or download PanelView files over the PLC networks, you also need to install INTERCHANGE or WINtelligent LINX software. If you do not have this software, contact Allen-Bradley Technical Support for assistance.

Do not cancel the installation while it is in progress. If you want to undo the installation, let the installation finish, then use the Uninstall Transfer Utility to remove all the installed files and to update the registration.

## Installing FTU32 from Floppy Disks on Windows NT or Windows 95

PanelView 1200/1400e Transfer Utility Version 4 (FTU32) is provided in the PanelView 1200/1400e Transfer Utility kit (A-B Catalog Number 2711E-ND7) on two disks. Before installing the software, make a backup copy of the disks. Store the original disks in a safe place, and install the FTU32 from the copy.

FTU32 is also provided on the PanelBuilder 1400e CD. You can obtain 3.5-inch floppy disks by creating them from the CD. For instructions on how to create floppy disks of the software from the CD, refer to the Readme file, titled Floppies.txt, in the root directory of the PanelBuilder 1400e CD.



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**To install FTU32:**

1. Start Windows NT or Windows 95. If you're already in Windows, close all open Windows applications.
2. Insert the floppy disk in the drive.
3. Choose Run from the Start button and enter a:\setup.exe, or select a:\setup.exe from Windows Explorer.
4. In the Welcome dialog box for the File Transfer Utility, it recommends that you close all open Windows applications. If you have done that, choose Next.
5. In the registration window, enter registration information about your copy of the FTU32. You can obtain registration information from the software registration card that is in your PanelBuilder 1400e or PanelView 1200/1400e Transfer Utility package.
6. Choose the drive and directory in which the FTU32 will be installed. By default, this is C:\AB\PB1400E\FTU32. To change the destination drive or directory, type the new drive and/or directory in the Program Files field. Then choose Next.
7. Choose the program folder (program group) in which you want to install the FTU32's icons, which includes a Readme file icon, the Transfer Utility icon, and an Uninstall icon. By default, the icons are installed in the PanelBuilder 1400e program folder. Then choose Next.
8. Choose whether the installation utility will modify the AUTOEXEC.BAT file.

   If you are installing on Windows 95, the entry
   `C:\Progra~1\Rockwe~1\RDM;%Path%`
   is required in the PATH variable for the FTU32 to work correctly.

   If you are installing on Windows NT, the entry
   `C:\Program Files\Rockwell Software\RDM`
   is required in the PATH variable in the Environment tab of the System Properties dialog.

   Choose Next to approve and continue.
9. The setup utility shows a summary of the choices you made in the preceding dialog boxes. To make any changes, choose the Back button. Otherwise, choose Next to begin the installation.
10. After all the applications have completed installing, you will be prompted to reboot your computer. You may reboot immediately or later, but you must reboot before you can run the File Transfer Utility or other applications successfully.



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After you finish installing the File Transfer Utility and you want to upload or download PanelView files over the PLC networks, you also need to install RSLinx Lite software, which is provided on 3.5-inch floppy disks. See the RSLinx user documentation provided for installation procedures.

Do not cancel the installation while it is in progress. If you want to undo the installation, let the installation finish, then use the Uninstall Transfer Utility to remove all the installed files and to update the registration.

## Installing FTU from Floppy Disks on Windows 95 or Windows 3.x

PanelView 1200/1400e Transfer Utility Version 3 (FTU) is provided in the PanelView 1200/1400e Transfer Utility kit (2711E-ND7) on two disks. Before installing the software, make a backup copy of the disks. Store the original disks in a safe place, and install the FTU from the copy.

FTU is also provided on the PanelBuilder 1400e CD. You can obtain 3.5-inch floppy disks by creating them from the CD. For instructions on how to create floppy disks of the software from the CD, refer to the Readme file, titled Floppies.txt, in the root directory of the PanelBuilder 1400e CD.

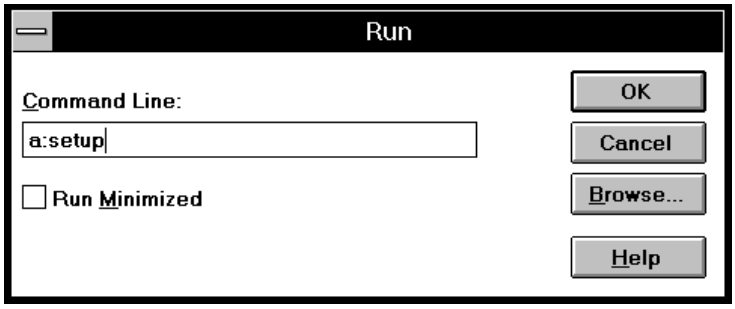
**To install FTU:**

1. Start Windows 95 or Windows 3.x. If you're already in Windows, close all open Windows applications.
2. Insert the floppy disk in the drive.
3. If you are running on Windows 95, choose Run from the Start button and enter a:\setup.exe, or select a:\setup.exe from Windows Explorer.

   If you are running on Windows 3.x, choose Run from the File menu. In the Run window, type:

   `a:setup` or `b:setup`

   where a or b is the drive containing the PanelView 1200/1400e Transfer Utility disk, and press ENTER.






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4. A window appears, recommending you close all open Windows applications. If you followed step 1, choose Next; otherwise close all open Windows applications now. Then choose Next. The File Transfer Utility Installation Program runs automatically.

5. In the registration window, enter registration information about your copy of the FTU. You can obtain registration information from the software registration card that is in your PanelBuilder 1400e or PanelView 1200/1400e Transfer Utility package.

6. Choose the drive and directory in which the FTU will be installed. By default, this is C:\AB\PB1400E\FTU. To change the destination drive or directory, type the new drive and/or directory in the Program Files field. Then choose Next.

7. Choose the program folder (program group) in which you want to install the FTU's icons, which includes a Readme file icon, the Transfer Utility icon, and an Uninstall icon. By default, the icons are installed in the PanelBuilder 1400e program folder. Then choose Next.

8. Choose whether the installation utility will modify the AUTOEXEC.BAT file. The entry
   `C:\RSI\CMN`
   is required in the PATH variable for the FTU to work correctly.

   Then choose Next.

9. The setup utility shows a summary of the choices you made in the preceding dialog boxes. To make any changes, choose the Back button. Otherwise, choose Next to begin the installation.

10. After all the applications have completed installing, you will be prompted to reboot your computer. You may reboot immediately or later, but you must reboot before you can run File Transfer Utility or other applications successfully.

    After you finish installing the File Transfer Utility and you want to upload or download PanelView files over the PLC networks, you also need to install INTERCHANGE or WINtelligent LINX software. If you do not have this software, contact Allen-Bradley Technical Support for assistance.

Do not cancel the installation while it is in progress. If you want to undo the installation, let the installation finish, then use the Uninstall Transfer Utility to remove all the installed files and to update the registration.



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## Starting the PanelView 1200/1400e Transfer Utility Version 4 (FTU32)

The PanelView 1200/1400e Transfer Utility (FTU32) Version 4 runs on Windows NT or Windows 95.

This section describes how to start the program from Windows NT and Windows 95. Screen illustrations in this manual are from the Windows NT environment. Functionality of the transfer utility is the same for Windows NT and Windows 95.

### To start FTU32 from Windows NT or Windows 95:

1. Click the Start button from the taskbar.
2. Choose Programs, and choose PanelBuilder 1400e or the folder you specified when you installed the program.
3. Choose PanelView 1200/1400e Transfer Utility. The following dialog box is displayed.




If you have problems running the File Transfer Utility and you have had previous versions of the File Transfer Utility on your computer, we recommend you select “Uninstall Transfer Utility” in the PanelBuilder 1400e folder. The “Uninstall Transfer Utility” program deletes any of the shared files and windows system file conflicts that may exist from earlier installations. You will then have to reinstall the File Transfer Utility software again. If problems still exist, contact Allen-Bradley Technical Support. For Technical Support information, see the *Preface* in this manual.



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## Starting the PanelView 1200/1400e Transfer Utility Version 3 (FTU)

The PanelView 1200/1400e Transfer Utility Version 3 (FTU) includes two utilities that can be accessed from the same icon:

- the Transfer Utility for the PanelView 1000e/1200e/1400e terminals that is activated from toolbar buttons.
- the PanelView 1200 Transfer Utility that can be selected from the Transfer menu bar.

This section describes how to start the program from Windows 3.x and Windows 95. Screen illustrations in this manual are from the Windows 3.1 environment. Functionality of the transfer utility is the same for Windows 3.x and Windows 95.



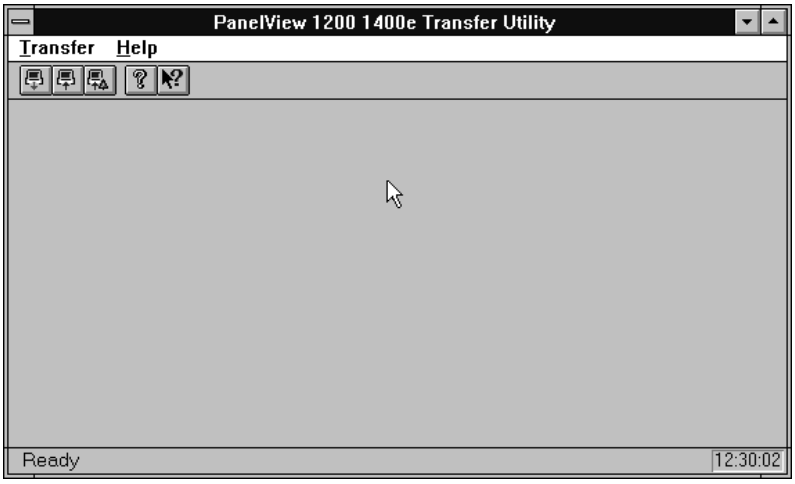

**To start FTU from Windows 3.x:**

1. Double-click the PanelBuilder 1400e program group (or the program group you selected when you installed the software).
2. Double-click the PanelView 1200/1400e Transfer Utility icon.

   If you have problems running the File Transfer Utility, check the Readme.txt file for potential system conflicts, and contact Allen-Bradley Technical Support. For Technical Support information, see the *Preface* in this manual.

**To start FTU from Windows 95:**

1. Click the Start button from the taskbar.
2. Choose Programs, and choose PanelBuilder 1400e or the folder you specified when you installed the program.
3. Choose PanelView 1200/1400e Transfer Utility. The following dialog box is displayed.





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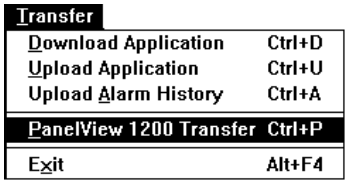
If you have problems running the File Transfer Utility and you have had previous versions of the File Transfer Utility on your computer, we recommend you select “Uninstall Transfer Utility” in the PanelBuilder 1400e folder. The “Uninstall Transfer Utility” program deletes any of the shared files and windows system file conflicts that may exist from earlier installations. You will then have to reinstall the File Transfer Utility software again. If problems still exist, contact Allen-Bradley Technical Support. For Technical Support information, see the *Preface* in this manual.

## Activating the PanelView 1200/1400e Transfer Utility

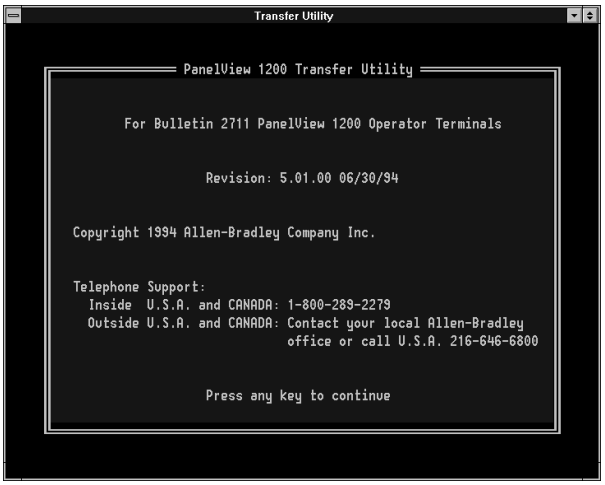
For details on how to use the toolbar buttons, see Chapter 3, *Uploading 1000e/1200e/1400e Application Files and Alarm History Files*, and Chapter 4, *Downloading 1000e/1200e/1400e Application Files*, in this manual.

## Starting the PanelView 1200 Transfer Utility

The procedure to start the PanelView 1200 Transfer Utility is the same for Windows 95 and Windows 3.x. This utility, available in FTU Version 3 and earlier, is used to transfer an application created in PanelBuilder Development Software for DOS, or PanelBuilder 1200 Configuration Software for Windows. Refer to the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-811) for more information.




1. Start the PanelView 1200/1400e Transfer Utility using the method previously described for your operating system.
2. Choose PanelView 1200 Transfer from the Transfer menu. The following screen is displayed.






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## Exiting the PanelView 1200 Transfer Utility

When you have finished transferring applications, exit the PanelView 1200 Transfer Utility.

**To exit the PanelView 1200 Transfer Utility:**

1. Choose Exit from the menu bar.

   The Exit menu appears.




2. Choose Yes, exit and press ENTER. You will return to the PanelView 1200/1400e Transfer Utility screen.

   If you don't want to quit, choose Cancel Exit. The PanelView 1200 Transfer Utility remains active.

3. Quit the PanelView 1200/1400e Transfer Utility by choosing Exit from the Transfer menu, pressing ALT+F4, or clicking on the Close button.

## Exiting the PanelView 1200/1400e Transfer Utility

When you have finished transferring applications, exit the PanelView 1200/1400e Transfer Utility.

**To exit the PanelView 1200/1400e Transfer Utility:**

- Choose Exit from the Transfer menu, press ALT+F4, or click on the Close button.



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# Uploading 1000e/1200e/1400e Application Files and Alarm History Files

This chapter describes how to upload PanelView application files and alarm history files using the various transfer methods, including:

- how to upload an application file from the PanelView terminal to your computer
- how to upload Alarm History files

For details on how to upload PanelView 1200 application files, see the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-811).

## Uploading PanelView 1000e/1200e/1400e Application Files

You can perform network file transfers or serial transfers. For serial transfers, you can upload PanelView 1000e/1200e/1400e application files when you connect the PanelView terminal to a computer with the Upload/Download cable (Allen-Bradley Catalog Numbers 2706-NC13, 2711-NC13, 2711-NC14 for PanelView 1000e terminals; 2711-NC1 for PanelView 1200e/1400e terminals).

To upload application files, you must:

- prepare the PanelView terminal for a serial, network direct, or RIO Pass-Through upload

  **Important:** For network uploads, you do not need to configure the parameters on the PanelView terminal. PanelView uses the parameter settings for the currently selected file.

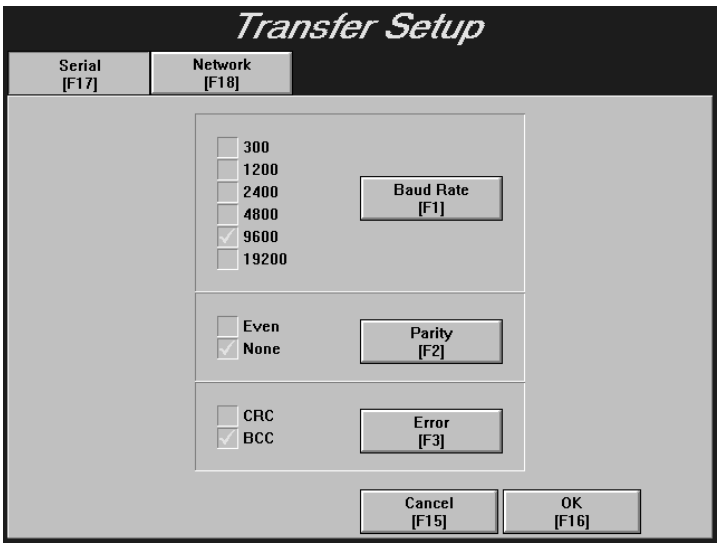
- configure the PanelView 1200/1400e Transfer Utility for the upload
- initiate the application file upload

### To prepare the PanelView terminal for a serial upload:

1. Switch the PanelView terminal to the Configure mode, using the hardware keyswitch or the Goto Configure Mode button.
2. At the PanelView terminal, press the Transfer Setup button on the Terminal Configuration screen to display the Transfer Setup screen.



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3. To change the settings, press the Baud Rate, Parity, or Error buttons to move the check mark to the setting you want.
   - **Baud Rate**—The speed at which data is transmitted over the serial cable. The default setting for a serial transfer is 9600 baud.
   - **Parity**—Used for checking data transferred between the development computer and terminal. The default setting is None.
   - **Error**—Used to check for errors in data transmission and is either

     **CRC**—cyclical (or cyclic) redundancy check.

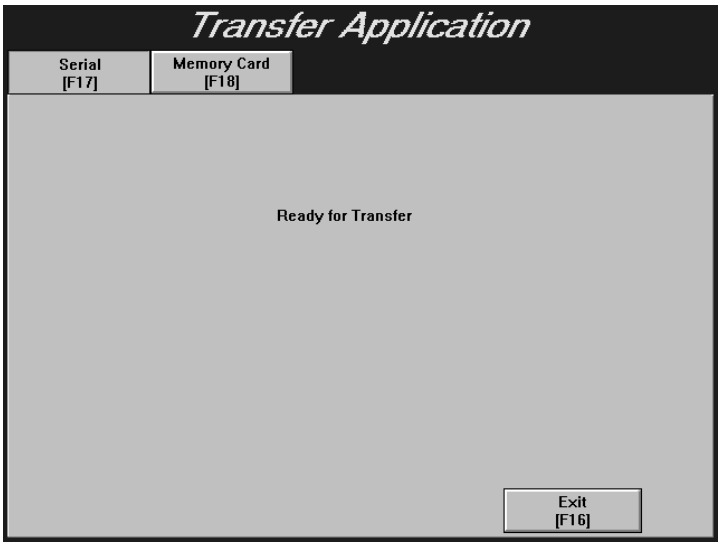
     **BCC**—block check character. BCC is the default setting.

4. When you have selected the required settings, press OK to exit this screen.

5. To transfer an application serially, press the Transfer Application button on the Terminal Configuration screen to display the Transfer Application screen.

   The following Transfer Application screen is shown.


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**Important:** The application file to be uploaded must be the Current Application in the PanelView terminal. For more information, refer to "Selecting an Application" in Chapter 5, "Configuring PanelView Terminals," in your *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual* (Publication Number 2711E-821).

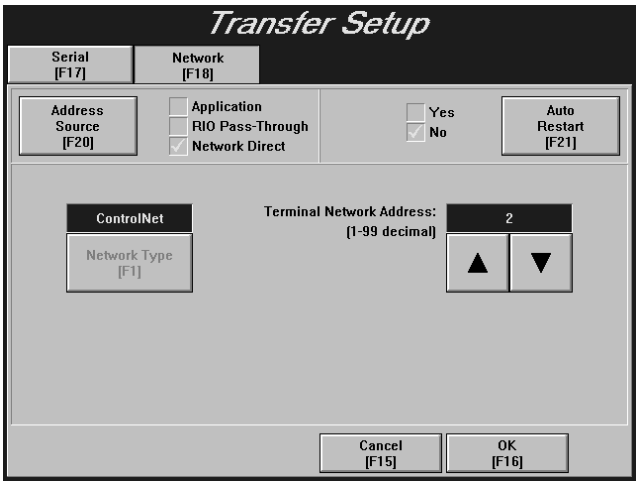
**To prepare the PanelView terminal for a network direct upload:**

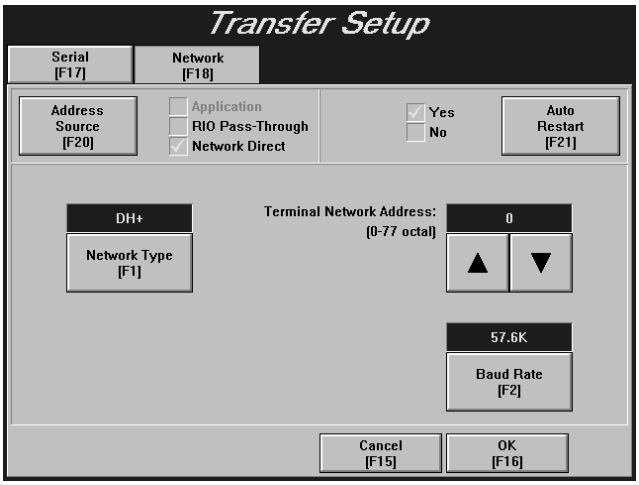
1. Switch the PanelView terminal to the Configure mode, using the hardware keyswitch or the Goto Configure Mode button.
2. At the PanelView terminal, press the Transfer Setup button on the Terminal Configuration screen to display the Transfer Setup screen.
3. Select the Network tab.
4. To do a DH+ Direct or ControlNet Direct transfer, choose either Application or Network Direct as the Address Source. The first time you enter this screen, the default is Application if you have an application selected; otherwise, RIO Pass-Through or the Address Source that was previously selected is the default. When you re-enter the screen, the values that were previously saved appear.
   - **Application**—When you choose Application, all the configuration parameters are taken from the currently-selected application file. This is the default setting.
   - **Network Direct**—When you choose Network Direct, the configuration parameters from the application file are disabled.



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In the examples below, the first screen displays a ControlNet Direct transfer. The second screen displays a DH+ Direct transfer.

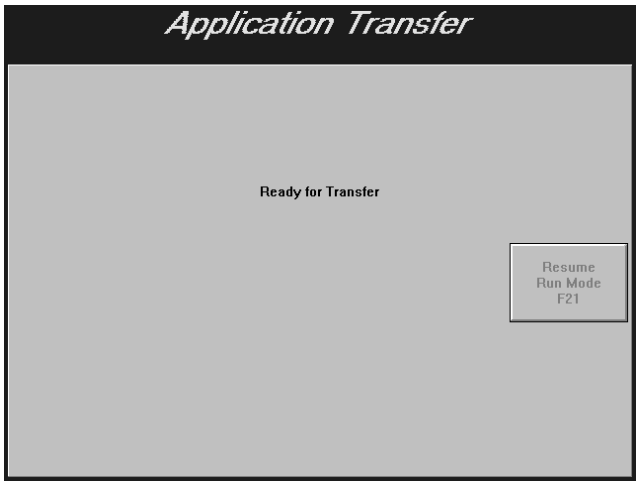



5. Choose OK.
6. If Application is the Address Source, switch the PanelView terminal to Run mode. The application starts to run. You can now transfer application files over the selected network.

   If Network Direct is the Address Source, switch the PanelView terminal to Run mode. The Application Transfer screen is displayed. You can now transfer application files over the selected network.


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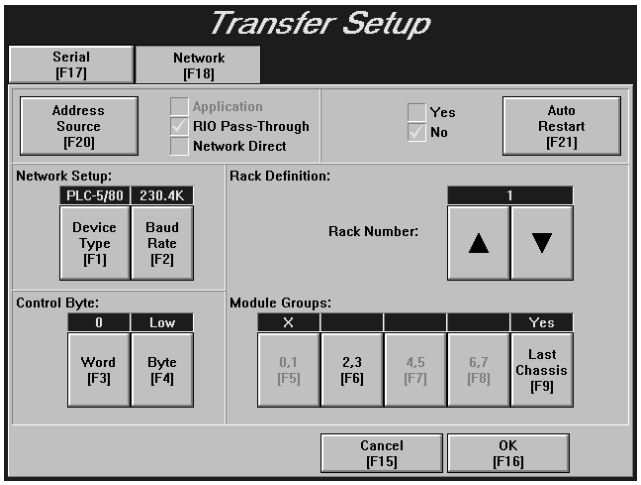



**To prepare the PanelView terminal for a Remote I/O Pass-Through upload:**

1. Switch the PanelView terminal to the Configure mode, using the hardware keyswitch or the Goto Configure Mode button.
2. At the PanelView terminal, press the Transfer Setup button on the Terminal Configuration screen to display the Transfer Setup screen.
3. Select the Network tab.
4. To do a Pass-Through application file transfer, choose either Application or RIO Pass-Through for the Address Source. The first time you enter this screen, the default is Application if you have an application selected. When you re-enter the screen, the values that were previously saved appear.
   - **Application**—When you choose Application, the terminal uses the current application file's RIO Pass-Through parameters for the file transfer. If the current application file contains a Pass-Through configuration, its values are displayed in the Terminal Network Setup Racks and Block Transfer Files screens. The settings in the PanelBuilder application must match the settings in the terminal for the application to work correctly.
   - **RIO Pass-Through**—When you choose RIO Pass-Through, the configuration parameters for the currently-selected application file are disabled.

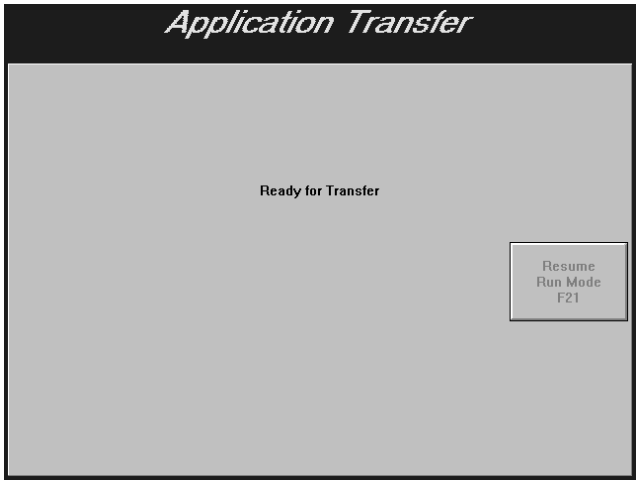
   The following example displays a Remote I/O Pass-Through transfer.


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5. Choose OK.
6. If Application is the Address Source, switch the PanelView terminal to Run mode. The application starts to run. You can now transfer application files over the selected network.

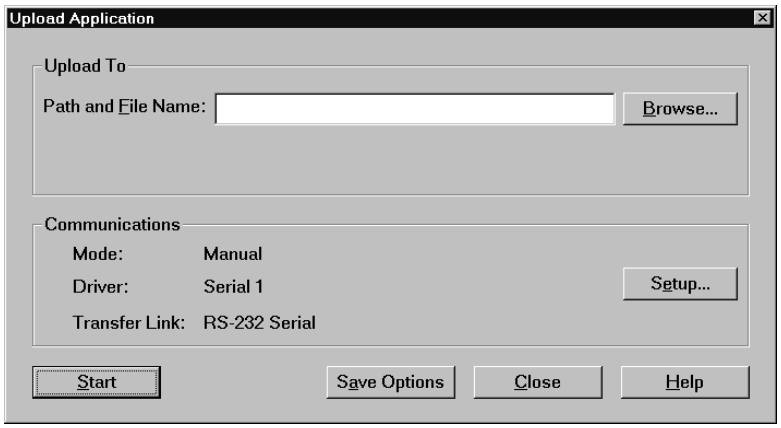
   If RIO Pass-Through is the Address Source, switch the PanelView terminal to Run mode. The Application Transfer screen is displayed. You can now transfer application files over the selected network.




### To configure the PanelView 1200/1400e Transfer Utility for the upload:

1. In the PanelView 1200/1400e Transfer Utility, choose Upload Application from the Transfer menu or  from the toolbar.


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2. The Upload Application dialog box is different for the FTU and FTU32.

**FTU32**

- In the File Name field, type the path and name of the upload file, or choose Browse to find a file you want to overwrite on the disk.

**FTU**

- In the Path and File fields, type the full path and name of the upload file, or choose Browse to find a file you want to overwrite on the disk. The file name and extension are optional.

   If no file name is specified, or you specify *.*, or you leave the field blank, the default name is the name of the application at the terminal and the default extension is .pvd.

   If no path name is specified, the default path is the current path where the FTU or FTU32 is installed.

3. When you have finished specifying path and name, configure communications settings for the transfer following instructions in Chapter 5, *Configuring Communications Settings for 1000e/1200e/1400e Application Transfers.*

4. Choose Save Options to save the file names to use for subsequent uploads. Settings are retained across uploads and invocations of the PanelView 1200/1400e Transfer Utility.

**To initiate the application file upload:**

▶ Choose the Start button.

A progress bar indicates the status of the upload on both the PanelView terminal and development computer.

If an error occurs during the upload process, see Chapter 6, *Troubleshooting for the PanelView 1200/1400e Transfer Utility.*



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## Uploading the PanelView 1000e/1200e/1400e Alarm History File

The PanelView 1200/1400e Transfer Utility menu provides access to an application's historical alarm data outside of the PanelView 1000e/1200e/1400e terminals. The Alarm History file can be uploaded using any of the application file upload methods: Serial, Network Direct, or Remote I/O Pass-Through.

**Note:** The Upload Alarm History function works only for PanelView 1000e/1200e/1400e terminals with Version 02.00.00 or later firmware.

### Alarm History Information

The uploaded alarm history information is in ASCII text format, with each field separated by a single comma (*.csv format file). The header information—with the name of the terminal's current application file, number of alarms, and the time and date of the upload—is the first line in the uploaded file. An example of the alarm history header is as follows:

"my_app", 128, 1997/06/20, 23:59:59

The header is followed by a line, which lists the fields for the alarm record information, as follows:

Alarm Trigger, Alarm Message, Trigger Date, Trigger Time, Acknowledge Date, Acknowledge Time

The third and following lines include the alarm records, each on a separate line, starting with the most recent alarm. See the following table for the format of each field in the alarm record.

| Field Name | Data in ASCII Text Representation |
|---|---|
| Alarm Trigger | Signed long integer value |
| Alarm Message | The alarm message associated with the trigger value<br>Message delimited by a pair of double quotes<br>Double quote character (") in the message text is translated to 2 double quotes ("")<br>For Version 02.00.00 and later applications, character sequence '\n' (backslash-n) in the message text is translated to '\\n'<br>For Version 02.00.00 and later applications, the newline character in the message text is translated to a backslash character followed by the letter n (\n) |
| Trigger Date | Each field is separated by a forward slash.<br>4-digit year (1980 to 2043)<br>2-digit month (1 to 12)<br>2-digit day (1 to 31) |
| Trigger Time | Each field is separated by a colon.<br>2-digit hour (0 to 23)<br>2-digit minute (0 to 59)<br>2-digit second (0 to 59) |



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| Field Name | Data in ASCII Text Representation |
|---|---|
| Acknowledge Date | Each field is separated by a forward slash. If the alarm is not acknowledged, no text follows the alarm event data.<br>4-digit year (1980 to 2043)<br>2-digit month (1 to 12)<br>2-digit day (1 to 31) |
| Acknowledge Time | Each field is separated by a colon. If the alarm is not acknowledged, no text follows the alarm event data.<br>2-digit hour (0 to 23)<br>2-digit minute (0 to 59)<br>2-digit second (0 to 59) |

Refer to the *PanelBuilder 1400e Configuration Software for Windows User Manual* for information about message formats and limits.

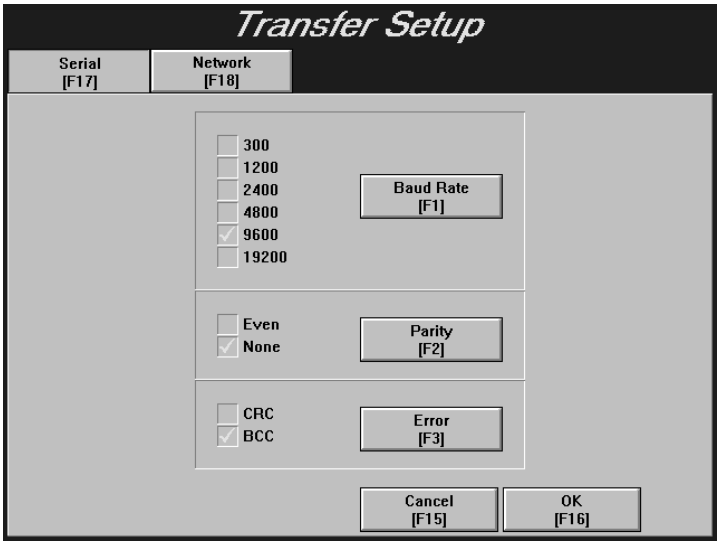
## Uploading the Alarm History Files

To upload alarm history files, you must:

- prepare the PanelView terminal for the upload
- configure the PanelView 1200/1400e Transfer Utility for the upload
- initiate the alarm history file upload

### To prepare the PanelView terminal for a serial upload:

1. Switch the PanelView terminal to the Configure mode, using the hardware keyswitch or the Goto Configure Mode button.
2. At the PanelView terminal, press the Transfer Setup button on the Terminal Configuration screen to display the Transfer Setup screen.






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3. To change the settings, press the Baud Rate, Parity, or Error buttons to move the check mark to the setting you want.
   - **Baud Rate**—The speed at which data is transmitted over the serial cable. The default setting for a serial transfer is 9600 baud.
   - **Parity**—Used for checking data transferred between the development computer and terminal. The default setting is None.
   - **Error**—Used to check for errors in data transmission and is either

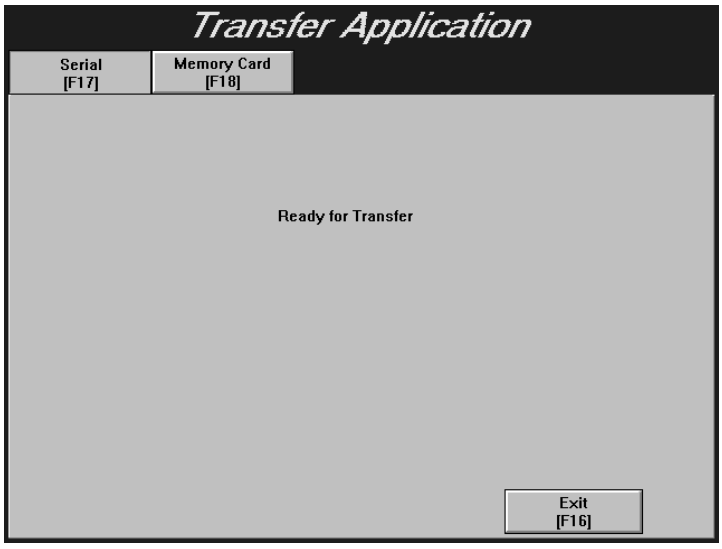
     **CRC**—cyclical (or cyclic) redundancy check.

     **BCC**—block check character. BCC is the default setting.

4. When you have selected the required settings, press OK to exit this screen.

5. To upload alarm history serially, press the Transfer Application button on the Terminal Configuration screen to display the Transfer Application screen.

   The following Transfer Application screen is shown.

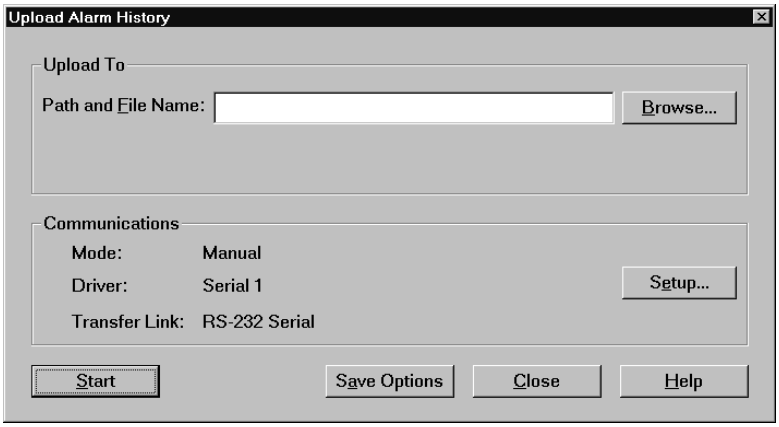




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**To configure the PanelView 1200/1400e Transfer Utility for the upload:**

1. In the PanelView 1200/1400e Transfer Utility, choose Upload Alarm History from the Transfer menu or  from the toolbar.




2. The Upload Application dialog box is different for the FTU and FTU32.

**FTU32**

- In the File Name field, type the path and file name of the Alarm History file to be uploaded, or choose Browse to find a file you want to overwrite on the disk.

**FTU**

- In the Path and File fields, type the full path and name of the Alarm History file to be uploaded, or choose Browse to find a file you want to overwrite on the disk. The file name and extension are optional.

If no file name is specified, the default file name for the saved Alarm History file will be the same as the file name currently in the PanelView terminal. The default file name will have a .csv extension.

If no path name is specified, the default path is the current path where the FTU or FTU32 is installed.

3. In the Communication Setup dialog box, enter the applicable information, depending on what type of upload method you will be using. Refer to Chapter 5, *Configuring Communications Settings for 1000e/1200e/1400e Application Transfers*.

4. Choose Save Options to save the file names to use for subsequent uploads. Settings are retained across uploads and invocations of the PanelView 1200/1400e Transfer Utility.

The uploaded Alarm History file can be imported and opened in appropriate third-party software, such as database packages or a spreadsheet.



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**To initiate the upload for the alarm history file:**

▶ In the Upload Alarm History dialog box, press Start. A progress bar that shows the status of the upload is displayed.

If an error occurs during the upload process, see Chapter 6, *Troubleshooting for the PanelView 1200/1400e Transfer Utility.*



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# Downloading 1000e/1200e/1400e Application Files

This chapter describes how to download application files using the various transfer methods described in Chapter 2, *Working with the PanelView 1200/1400e Transfer Utility.*

For file transfers over ControlNet, DH+, or Remote I/O Pass-Through, be sure the PanelView terminal address is correct, otherwise the transfer could corrupt data used by the PLC.

For details on how to download PanelView 1200 application files, see the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-811).

## Downloading PanelView 1000e/1200e/1400e Application Files

You can perform network file transfers or serial transfers. For serial transfers, you can download PanelView 1000e/1200e/1400e application files when you connect the PanelView terminal to a computer with the Upload/Download cable (Allen-Bradley Catalog Numbers 2706-NC13, 2711-NC13, 2711-NC14 for PanelView 1000e terminals; 2711-NC1 for PanelView 1200e/1400e terminals).

To download application files, you must:

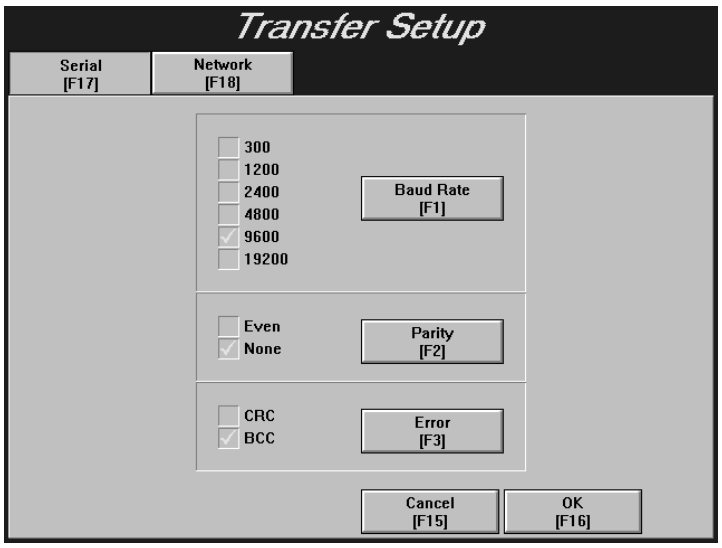
- prepare the PanelView terminal for the download. This section provides procedures on how to prepare a PanelView terminal for a serial, network direct, or RIO Pass-Through download.
- configure the PanelView 1200/1400e Transfer Utility for the download
- initiate the application file download

**To prepare the PanelView terminal for a serial download:**

1. Switch the PanelView terminal to the Configure mode, using the hardware keyswitch or the Goto Configure Mode button.
2. At the PanelView terminal, press the Transfer Setup button on the Terminal Configuration screen to display the Transfer Setup screen.



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3. To change the settings, press the Baud Rate, Parity, or Error buttons to move the check mark to the setting you want.
   - **Baud Rate**—The speed at which data is transmitted over the serial cable. The default setting for a serial transfer is 9600 baud.
   - **Parity**—Used for checking data transferred between the development computer and terminal. The default setting is None.
   - **Error**—Used to check for errors in data transmission and is either

     **CRC**—cyclical (or cyclic) redundancy check.

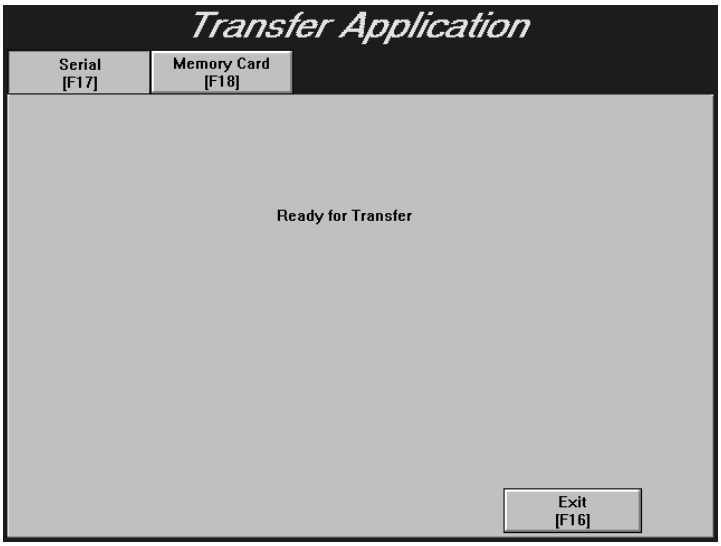
     **BCC**—block check character. BCC is the default setting.

4. When you have selected the required settings, press OK to exit this screen.

5. To download an application serially, press the Transfer Application button on the Terminal Configuration screen to display the Transfer Application screen.

   The following Transfer Application screen is shown.


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**To prepare the PanelView terminal for a network direct download:**

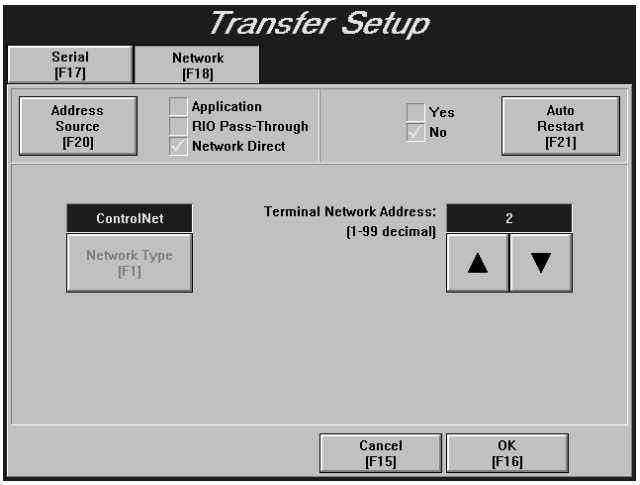
1. Switch the PanelView terminal to the Configure mode, using the hardware keyswitch or the Goto Configure Mode button.
2. At the PanelView terminal, press the Transfer Setup button on the Terminal Configuration screen to display the Transfer Setup screen.
3. Select the Network tab.
4. To do a DH+ Direct or ControlNet Direct transfer, choose either Application or Network Direct as the Address Source. The first time you enter this screen, the default is Application if you have an application selected; otherwise, RIO Pass-Through or the Address Source that was previously selected is the default. When you re-enter the screen, the values that were previously saved, appear.
   - **Application**—When you choose Application, all the configuration parameters are taken from the currently-selected application file. This is the default setting.
   - **Network Direct**—When you choose Network Direct, the configuration parameters from the application file are disabled.

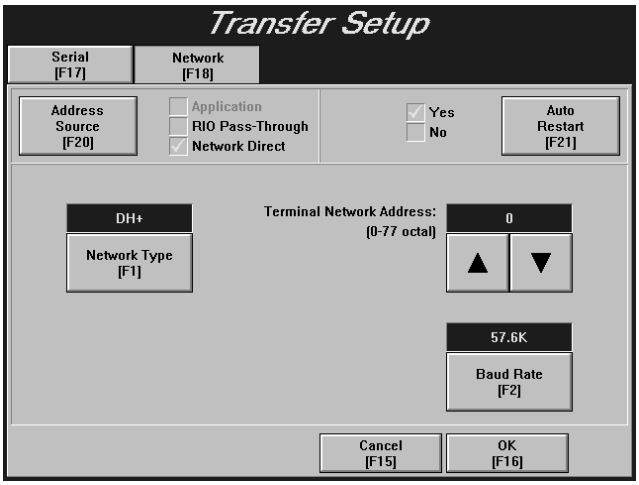
     **Important:** After a successful download of an application file over DH+ or ControlNet, the terminal automatically resets the Address Source to *Application*, uses the application file parameters, and discards the Manual Address parameters.



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In the examples below, the first screen displays a ControlNet Direct transfer. The second screen displays a DH+ Direct transfer.



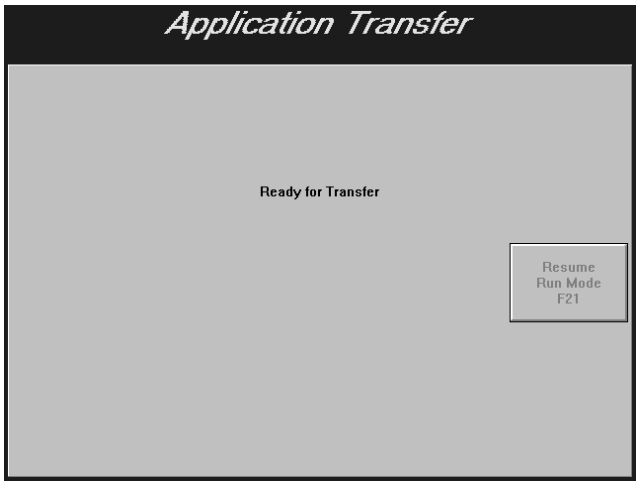




5. Choose OK.
6. If Application is the Address Source, switch the PanelView terminal to Run mode. The application starts to run. You can now transfer application files over the selected network.

   If Network Direct is the Address Source, switch the PanelView terminal to Run mode. The Application Transfer screen is displayed. You can now transfer application files over the selected network.



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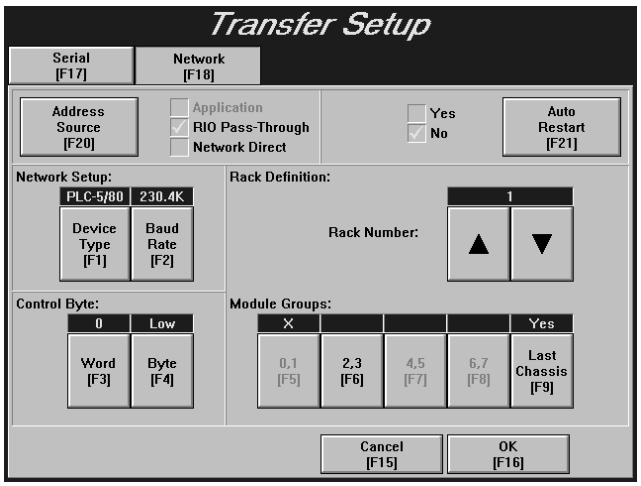



**To prepare the PanelView terminal for a Remote I/O Pass-Through download:**

1. Switch the PanelView terminal to the Configure mode, using the hardware keyswitch or the Goto Configure Mode button.
2. At the PanelView terminal, press the Transfer Setup button on the Terminal Configuration screen to display the Transfer Setup screen.
3. Select the Network tab.
4. To do a Pass-Through application file transfer, choose either Application or RIO Pass-Through for the Address Source. The first time you enter this screen, the default is Application if you have an application selected. When you re-enter the screen, the values that were previously saved appear.
   - **Application**—When you choose Application, the terminal uses the current application file's RIO Pass-Through parameters for the file transfer. If the current application file contains a Pass-Through configuration, its values are displayed in the Terminal Network Setup Racks and Block Transfer Files screens. The settings in the PanelBuilder application must match the settings in the terminal for the application to work correctly.
   - **RIO Pass-Through**—When you choose RIO Pass-Through, the configuration parameters for the currently-selected application file are disabled.


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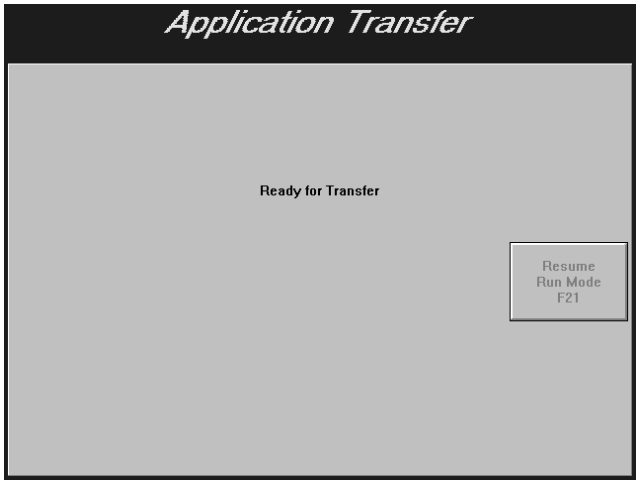
The following example displays a Remote I/O Pass-Through transfer.




5. Choose OK.

6. If Application is the Address Source, switch the PanelView terminal to Run mode. The application starts to run. You can now transfer application files over the selected network.

   If RIO Pass-Through is the Address Source, switch the PanelView terminal to Run mode. The Application Transfer screen is displayed. You can now transfer application files over the selected network.

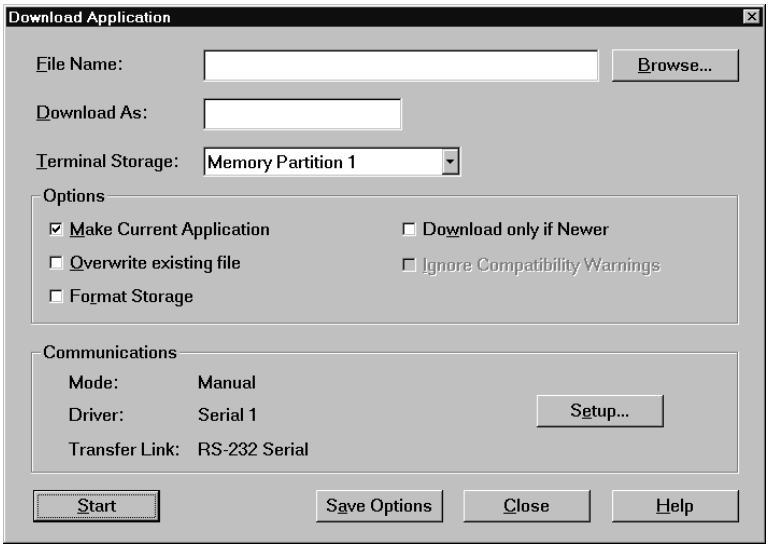




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**To configure the PanelView 1200/1400e Transfer Utility for the download:**

1. Choose Download Application from the PanelView 1200/1400e Transfer Utility's Transfer menu, or  from the toolbar.




2. In the File Name field, type the full path and file name of the download file, or choose Browse to locate a file on the disk. The file must be a .pvd file created by PanelBuilder 1400e.
3. In the Download As field, type an optional name (up to eight characters) for your application. This will be the application's name on the terminal after the download. All DOS file-naming restrictions apply.
4. In the Terminal Storage field, choose the area where the downloaded application will be stored. The default is Memory Partition 2.

   **Memory Partition 1** is the terminal's first memory partition. It is typically used for firmware storage and is not available for application file storage, unless the firmware is located on a PCMCIA card.

   **Memory Partition 2** is the terminal's second memory partition. It is typically used for application file storage.

   **Card Partition 1** is the first partition on a card with two application partitions or the partition on the card with a single partition.

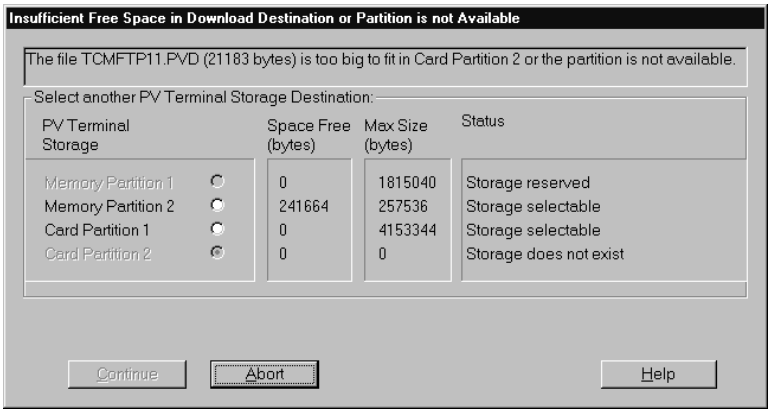


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**Card Partition 2** is the second partition on a card with two application partitions.

**FTU32**

If the selected storage area is full or not available, information on the storage area will be displayed in a pop-up window.




**FTU**

If the selected storage area is full or not available, information on the storage area will be displayed in the Download Application dialog box.

5. Choose one or more of the following download options:

| Download Option | Description |
|---|---|
| Make Current Application | This box is checked by default. When checked, the newly-downloaded application will become the currently-active application. When the terminal is put into Run mode, the current application is executed. Clear this check box if you don't want the downloaded file to be automatically selected as the current application.<br>**Note:** The application file is automatically selected after a successful download if there is no current application in the terminal, whether this option is enabled or not. |
| Overwrite Existing File | If a file of the same name already exists in the terminal's storage, it will be erased automatically. Clear the check box if you want to be warned before the existing file is erased. The default is not to overwrite the existing file automatically. |


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| Download Option | | Description |
|---|---|---|
| Format Storage | | All files downloaded to the terminal occupy space, even if they are erased. The only way to free up space is to format the terminal storage. If Format Storage is checked, it will automatically do this if there is not enough space to accommodate the downloaded file. Clear the check box if you want to be warned before the terminal storage is reformatted (or if you want to be able to select another storage location if the selected one is full). The default is No.<br><br>**Important:** The terminal storage can hold more than one application file. If you check Format Storage, all files in the selected storage will be removed. Ensure you have backups of any files you do not want to delete. See the directions for uploading files in Chapter 3 for instructions on backing up files. |
| Download Only If Newer | | When this box is checked, the application file is downloaded only if it is newer than the file of the same name in the terminal's memory. The default is No. |
| | FTU32 | If the Make Current Application box is checked, the Download Only If Newer option is available. If the Make Current Application box is not checked, the Download Only If Newer option is not available. |
| Ignore Compatibility Warnings | | When this box is cleared, a warning message is displayed if the application you are downloading to the PanelView terminal is incompatible with the terminal's type or its firmware version. If this box is checked, the warning message is not displayed. The default is an unchecked box.<br><br>**Note:** Although an incompatible file can be downloaded, it cannot be selected as the current application. |
| | FTU32 | If the Make Current Application box is checked, the Ignore Compatibility Warnings option is not available. If the Make Current Application box is not checked, the Ignore Compatibility Warnings option is available. |

6. Choose Save Options to save the file names and Setup to use for subsequent uploads. Settings are retained across downloads and invocations of the PanelView 1200/1400e Transfer Utility.

**To initiate the application file upload:**

▶ Choose the Start button.

A progress bar indicates the status of the download on both the PanelView terminal and development computer.

If an error occurs during the download process, see Chapter 6, *Troubleshooting for the PanelView 1200/1400e Transfer Utility.*



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# Configuring Communications Settings for 1000e/1200e/1400e Application Transfers

This chapter provides instructions for configuring communications settings when planning to transfer application files and Alarm History files between the PanelView 1000e/1200e/1400e terminals and computer. The communication settings must be configured before a transfer can be started.

For PanelView 1200 uploads or downloads, refer to the *PanelView 1200 Transfer Utility Manual* (Publication Number 2711-821).

## Selecting Communication Hardware and Driver Packages

The following information and table will help you determine which driver packages and drivers you need for your particular system configuration and what the appropriate transfer link will be for your communication hardware setup. You need to know:

- what hardware you have
- what transfer link you're using
- which driver package you're using
- which driver options must be configured

Table 5.A provides a matrix to help determine your hardware and driver requirements.

**Note:** Modbus only supports the Internal File Transfer Utility (Serial 1 or 2).

When choosing a driver:

| FTU | FTU32 |
|---|---|
| For DF1 Direct transfers, choose the Internal File Transfer Utility driver package (Serial 1 or Serial 2). | For DF1 Direct transfers, choose the Internal File Transfer Utility driver package (Serial 1 or Serial 2). |
| For DF1 Direct transfers, choose INTERCHANGE or the WINtelligent LINX driver (Serial 1 or Serial 2). | For DF1 Direct transfers, choose RSLinx (Serial 1 or Serial 2). |
| For DH+, use whichever package you have; if you have none, use the Serial 1 or Serial 2 driver to communicate over the KF2 module. | For DH+, use whichever package you have; if you have none, use the Serial 1 or Serial 2 driver to communicate over the KF2 module. |
| For ControlNet, use whichever package you have; if you have none, use the Serial 1 or Serial 2 driver to communicate over the KFC module. | For ControlNet, use whichever package you have; if you have none, use the Serial 1 or Serial 2 driver to communicate over the KFC module. |
| For Remote I/O Pass-Through, use whichever driver you would use for DH+ or ControlNet. | For Remote I/O Pass-Through, use whichever driver you would use for DH+, ControlNet, or Ethernet. |



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**FTU** **Table 5.A Table of PC Host Hardware and Applicable Drivers**

| If you have this communication hardware | Decide which transfer link to use | Select Network Type and Address | Choose one of these driver packages | Select the corresponding driver |
|---|---|---|---|---|
| PC COM Port | RS-232 Serial | DF1 Direct | Internal File Transfer Utility | Serial 1 or 2 |
| | | | WIN LINX | 1770-KF2/KE to DH/DH+ & PLC-5 CH0 |
| | | | INTERCHANGE | INTERCHANGE Port 1 – 8 |
| 1770-KF2 / KE | Network Direct | DH+ | Internal File Transfer Utility | Serial 1 or 2 |
| | | | WIN LINX | 1770-KF2/KE to DH/DH+ & PLC-5 CH0 |
| | | | | WIN LINX using INTERCHANGE to DH+ |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| | Remote I/O Pass-Through | DH+ | Internal File Transfer Utility | Serial 1 or 2 |
| | | | WIN LINX | 1770-KF2/KE to DH/DH+ & PLC-5 CH0 |
| | | | | WIN LINX using INTERCHANGE to DH+ |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| 1784-KT / KT2 / PCMK | Network Direct | DH+ | WIN LINX | 1784-KT/KT2/PCMK to DH+ |
| | | | | WIN LINX using INTERCHANGE to DH+ |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| | Remote I/O Pass-Through | DH+ | WIN LINX | 1784-KT/KT2/PCMK to DH+ |
| | | | | WIN LINX using INTERCHANGE to DH+ |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| 1784-KTX | Network Direct | DH+ | WIN LINX | 1784-KTX to DH+ |
| | | | | WIN LINX using INTERCHANGE to DH+ |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| | Remote I/O Pass-Through | DH+ | WIN LINX | 1784-KTX to DH+ |
| | | | | WIN LINX using INTERCHANGE to DH+ |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| SS Technologies 5136-SD | Network Direct | DH+ | WIN LINX | SS Technologies 5136–SD to DH+ |
| | Remote I/O Pass-Through | DH+ | WIN LINX | SS Technologies 5136–SD to DH+ |
| SS Technologies 5136-SD2 | Network Direct | DH+ | WIN LINX | SS Technologies 5136–SD2 to DH/DH+ |
| | Remote I/O Pass-Through | DH+ | WIN LINX | SS Technologies 5136–SD2 to DH/DH+ |



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| If you have this communication hardware | Decide which transfer link to use | Select Network Type and Address | Choose one of these driver packages | Select the corresponding driver |
|---|---|---|---|---|
| 1770-KFC | Network Direct | ControlNet | Internal File Transfer Utility | Serial 1 or 2 |
| | | | WIN LINX | 1770-KFC to ControlNet (DH+ Mode) |
| | | | | WIN LINX using INTERCHANGE to ControlNet |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| | Remote I/O Pass-Through | ControlNet | Internal File Transfer Utility | Serial 1 or 2 |
| | | | WIN LINX | 1770-KFC to ControlNet (DH+ Mode) |
| | | | | WIN LINX using INTERCHANGE to ControlNet |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| 1784-KTC | Network Direct | ControlNet | WIN LINX | 1784-KTC to ControlNet (DH+ Mode) |
| | | | | WIN LINX using INTERCHANGE to ControlNet |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| | Remote I/O Pass-Through | ControlNet | WIN LINX | 1784-KTC to ControlNet (DH+ Mode) |
| | | | | WIN LINX using INTERCHANGE to ControlNet |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| 1784-KTCX | Network Direct | ControlNet | WIN LINX | 1784-KTC to ControlNet (DH+ Mode) |
| | | | | WIN LINX using INTERCHANGE to ControlNet |
| | | | INTERCHANGE | Interchange Port 1 – 8 |
| | Remote I/O Pass-Through | ControlNet | WIN LINX | 1784-KTC to ControlNet (DH+ Mode) |
| | | | | WIN LINX using INTERCHANGE to ControlNet |
| | | | INTERCHANGE | Interchange Port 1 – 8 |



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**FTU32** **Table 5.B Table of PC Host Hardware and Applicable Drivers**

| If you have this communication hardware | Decide which transfer link to use | Select Network Type and Address | Choose one of these driver packages | Select the corresponding driver |
|---|---|---|---|---|
| PC COM Port | RS-232 Serial | DF1 Direct | Internal File Transfer Utility | Serial 1 or 2 |
| 1770-KF2 / KE | Network Direct | DH+ | Internal File Transfer Utility | Serial 1 or 2 |
| | Remote I/O Pass-Through | DH+ | Internal File Transfer Utility | Serial 1 or 2 |
| 1784-KT / 1784-KTX / PCMK | Network Direct | DH+ | RSLinx | 1784-KT/KTX(D)/PCMK/PKTX(D) |
| | Remote I/O Pass-Through | DH+ | RSLinx | 1784-KT/KTX(D)/PCMK/PKTX(D) |
| 1770-KFC | Network Direct | ControlNet | Internal File Transfer Utility | Serial 1 or 2 |
| | Remote I/O Pass-Through | ControlNet | Internal File Transfer Utility | Serial 1 or 2 |
| 1784-KTC / 1784-KTCX | Network Direct | ControlNet | RSLinx | 1784-KTC(X) |
| | Remote I/O Pass-Through | ControlNet | RSLinx | 1784-KTC(X) |
| Network Card | Remote I/O Pass-Through | Ethernet | RSLinx | AB-ETH-1 |

## Configuring Communications

The procedure and dialog boxes are the same for application downloads, application uploads, and alarm history uploads.

The screen illustrations are from the Windows NT environment.The appearance of Windows 95 screens are th esame as the Windows NT screens. There are slight differences in the appearance of Windows 3.1 screens but the functionality remains identical in either system.

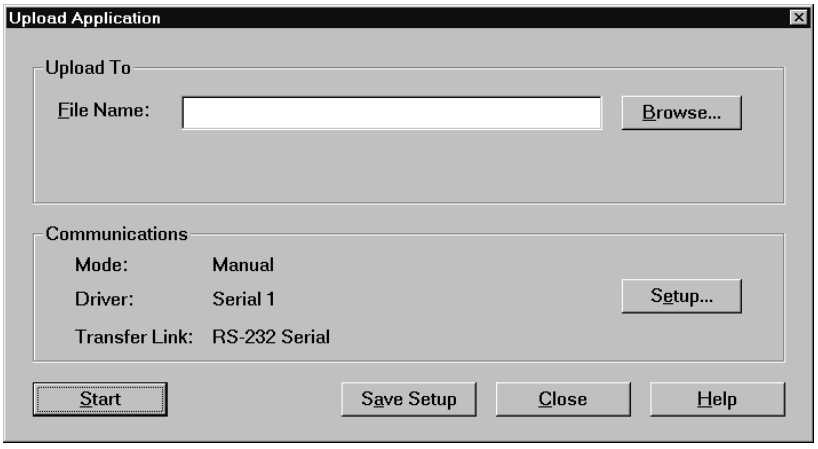
### Transfer Mode Selection

**To select the transfer mode:**

1. Select the PanelView 1200/1400e Transfer Utility.
2. Select Upload Alarm History, Upload Application, or Download Application from the Transfer menu. The upload or download dialog box is displayed.



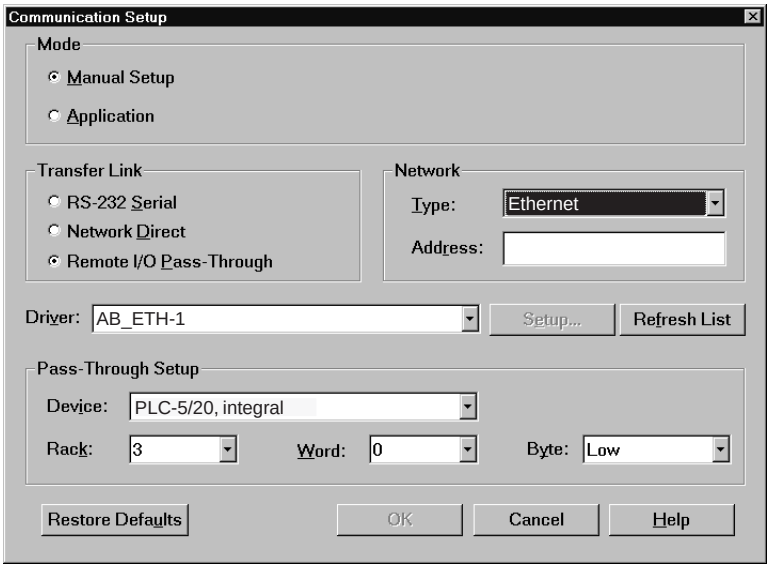
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3. From either an upload or download dialog box, choose the Setup button to display the Communication Setup dialog box.

**FTU32**

If RSLinx is installed and is not already running, RSLinx starts up automatically when you choose Setup.



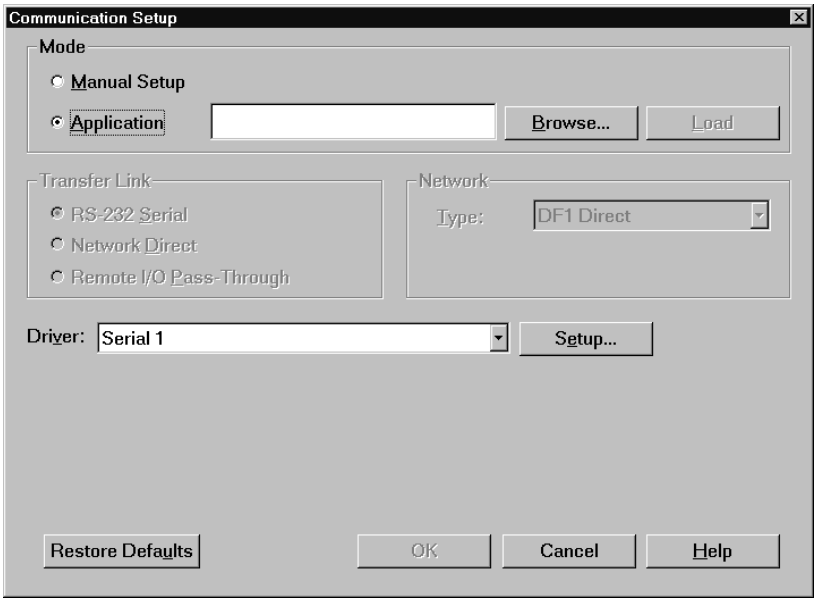

4. Select the Mode.

If you choose Manual Setup (see above dialog), you can set up your own parameter settings for Transfer Link, Network, Driver, and Pass-Through Setup.



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If you choose Application, all parameter settings except for Communication Driver are taken from the application file. Refer to the *PanelBuilder 1400e Configuration Software for Windows User Manual* for information on where those are configured. You may want to use the Application setting if you are uploading applications for maintenance and want the application to download back to the same address.




Select Browse to select an application and Load to reload the original settings from the application files if you have changed them. The Browse and Load buttons are available only for application and alarm history uploads.

For downloads, the parameter settings are taken from the file you are downloading. For uploads and alarm history uploads, the parameter settings are taken from the file you chose in the Mode selection area.

## Transfer Link Selection

### To select the transfer link:

▶ Select either the RS-232, Network Direct, or the Remote I/O Pass-Through option.

Typically, the communication hardware in your computer determines your transfer link options. To identify your transfer link options for your computer host hardware, refer to Table 5.A or 5.B, “Table of PC Host Hardware and Applicable Drivers.”



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The RS-232 serial transfer link is used when you perform a transfer using the COM port on your PC.

The Network Direct option performs a transfer over DH+ or ControlNet.

**FTU**

The Remote I/O Pass-Through option performs transfers over DH+ or ControlNet between the PC and PLC, and over Remote I/O from the PLC to the PanelView terminal.

**FTU32**

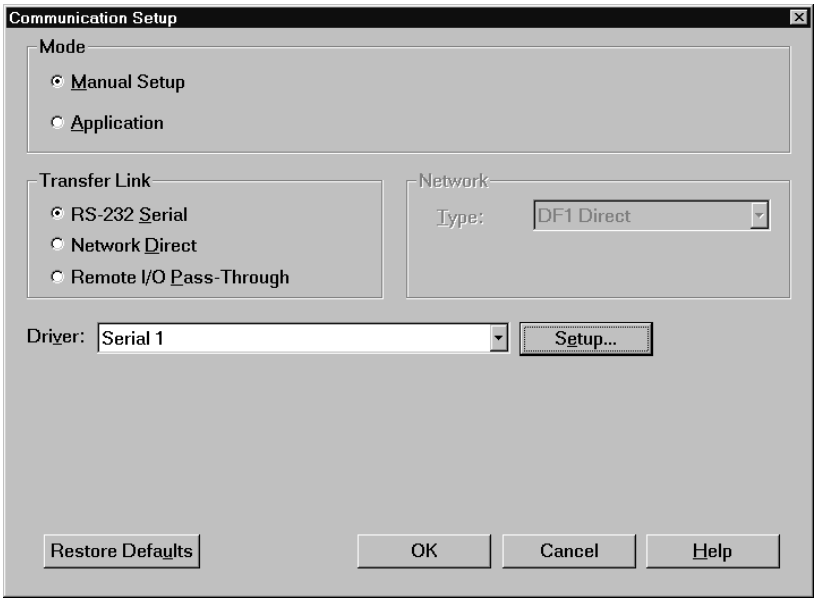
The Remote I/O Pass-Through option performs transfers over DH+, ControlNet, or Ethernet between the PC and PLC, and over Remote I/O from the PLC to the PanelView terminal.

## Driver Selection

After you select the transfer link, refer to the following sections for network and driver configurations.

### RS-232 Serial Transfer Link Driver Configuration

When you select RS-232 Serial as the transfer link, Driver selection is the only option you can configure.






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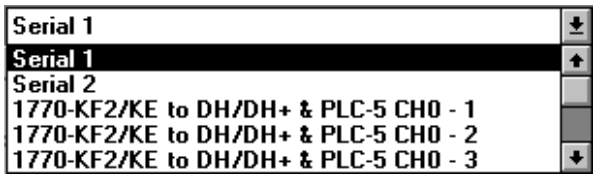
**To select the driver:**

1. Select the driver. To open a list of available drivers, click on the arrow to the right of the Driver field.

**Note:** Serial 1 and Serial 2 drivers are provided by the transfer utility and enable you to configure two different serial setups (for example, baud rates). Also, they can accommodate the two communication ports on many computers. Refer to the physical communication ports on your computer to determine the correct port for your application.

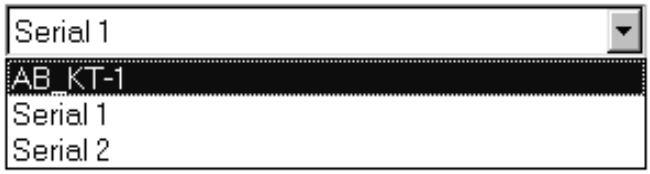
**FTU**

Driver options include serial, INTERCHANGE, and WINtelligent LINX ports. When selecting a driver, the Serial 1 and 2 physical communication ports are available to communicate directly to the PanelView terminal serial port. The other driver selections need either INTERCHANGE or WINtelligent LINX, which must be installed on the computer being used. The appropriate drivers will be made available.




**FTU32**

Driver options are Serial 1 or Serial 2. When selecting a driver, the Serial 1 and 2 physical communication ports are available to communicate directly to the PanelView terminal serial port. The other driver selections need RSLinx, which must be installed on the computer being used. You must have configured the RSLinx driver before it appears in the driver list. To configure an RSLinx driver, you must bring up the RSLinx application by pressing Setup or Start in the upload, upload alarm history, or download dialog boxes in the FTU32 application. You can also access the RSLinx application in the status bar on the host computer.




2. Select the Setup button.

**FTU**

If you have selected an INTERCHANGE port, selecting the Setup button opens the INTERCHANGE Device Configuration Utility. For information about configuring INTERCHANGE ports, refer to the *INTERCHANGE Device Configuration Utility User Manual* (Publication Number 5850-6.5.7).



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**FTU**

If you have selected a WINtelligent LINX port, selecting the Setup button opens the WINtelligent LINX utility. Refer to the WINtelligent LINX user documentation for information on using the utility.

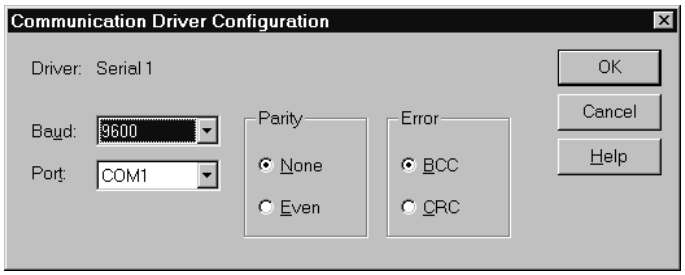
**Note:** INTERCHANGE and WINtelligent LINX are not included in the PanelView 1200/1400e Transfer Utility software package (A-B Catalog Number 2711E-ND7) and must be obtained separately. For product information, contact your local Allen-Bradley office or distributor.

**FTU32**

If you have selected a RSLinx port, selecting the Setup button opens the RSLinx utility. Refer to the RSLinx user documentation for information on using the utility.

**Note:** RSLinx is included in the PanelBuilder 1400e software package (A-B Catalog Number 2711E-ND1) and the PanelView 1200/1400e Transfer Utility software package (A-B Catalog Number 2711E-ND7).

If you have selected Serial 1 or Serial 2, the Communication Driver Configuration dialog box appears.




3. Fill in the fields in the Communication Driver Configuration dialog box as follows:

**Baud**
Specify the data-transfer rate between your computer and the PanelView terminal. This must match the baud rate configured for the PanelView terminal. The default setting is 9600.

**Port**
Specify COM1, COM2, COM3, or COM4 as the serial port used to connect the Upload/Download cable or the PanelView terminal. The default setting is COM1.

**Parity**
Specify None or Even for the type of error-checking to be used. This must match the parity configured for the PanelView terminal. The default setting is None.



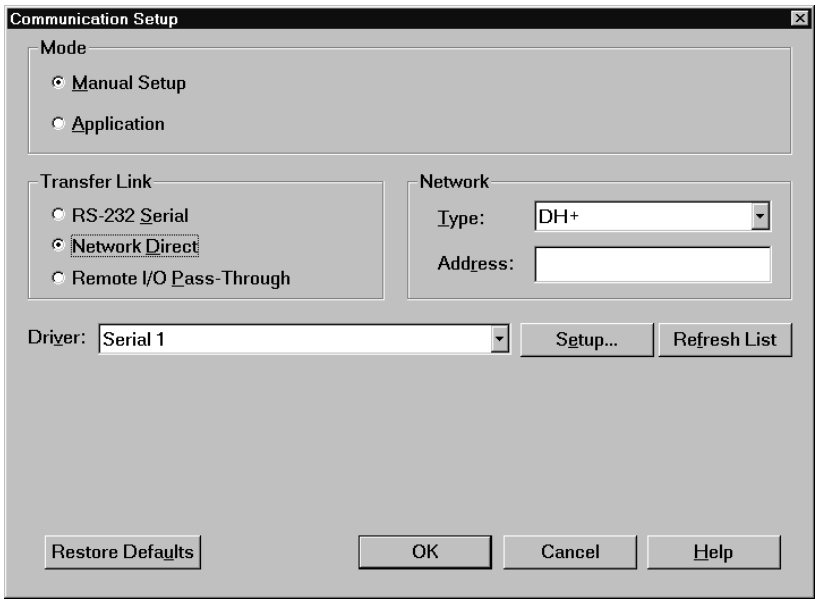
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**Error**
Specify the error-detection protocol used by the device. BCC is Block Check Character and CRC is Cyclic Redundancy Check. This must match the error-checking protocol configured for the PanelView terminal. The default setting is BCC.

For details about PanelView terminal transfer configuration settings, see “Transferring Application Files” in Chapter 5, “Configuring PanelView Terminals,” in your *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*.

### Network Direct Transfer Link: Network and Driver Configuration

When you select Network Direct as the transfer link, Network Type, Address, and Driver are the options you can configure.




#### To select the network:

▶ Specify Network Type and Address settings as follows:

**Type**
Specify DH+ or ControlNet as the network to which your PC will be connected.

When you change network types, some parameter settings may be invalid. Any invalid parameter settings will change to the default settings for that selected network type.


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**Address**
This is the station address of the PanelView terminal on the DH+ or ControlNet network. If the terminal is on a different DH+ network bridged to the PanelBuilder DH+, you must also specify the full bridge address.

For DH+ Direct, specify an address with a value between 0 and 77 (octal).

For ControlNet Direct, specify an address. The range is 1 to 99 (decimal). For some ControlNet versions, address 1 must be assigned to a PLC.

The bridge address format for DH+ is as follows:

| Station Address | | Valid DH+ Entries |
|---|---|---|
| **ll.rrr.ss** | | |
| ll | local bridge address | 0 – 77 (octal) |
| rrr | remote bridge address | 0 – 376 (octal) |
| ss | station address on remote network | 0 – 77 (octal) |
| | **or** | |
| You can shorten the offlink address by combining the remote bridge and remote station addresses into one three-digit number. The system reads only the first digit of the remote bridge address, and adds the two-digit remote station address to produce a shorter address that still points to the same node. | | |
| **ll.rss** | | 0 – 77 (octal) |
| ll | local bridge address | |
| rss | combined remote bridge address and remote station address | 0 – 376 (octal) |

For bridge address configuration examples, refer to “Planning DH+ or ControlNet Communications” in Chapter 2, “Planning Applications”, of the *PanelBuilder 1400e Configuration Software for Windows User Manual*.

**To select the driver:**

FTU32

1. Click on the Refresh List button to refresh the list of drivers.
2. Select the driver. To open a list of available drivers, click on the arrow to the right of the Driver field.

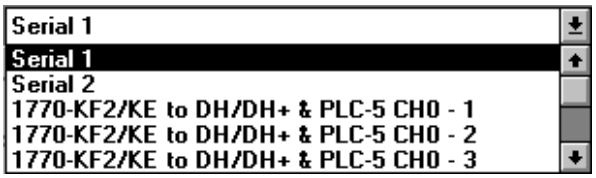
**Note:** Serial 1 and Serial 2 drivers are provided by the transfer utility and enable you to configure two different serial setups (for example, baud rates). Also, they can accommodate the two communication ports on many computers. Refer to the physical communication ports on your computer to determine the correct port for your application.



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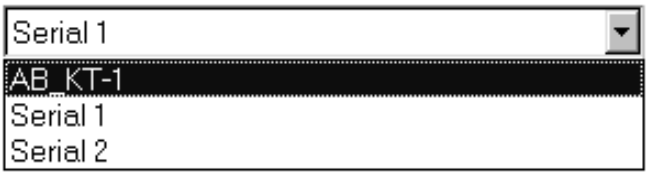
**FTU**

Driver options include serial, INTERCHANGE, and WINtelligent LINX ports. When selecting a driver, the Serial 1 and 2 physical communication ports are available to communicate directly to the PanelView terminal serial port or to a 1770-KF2/KE or 1770 KFC without using INTERCHANGE or WINtelligent LINX. The other driver selections need either INTERCHANGE or WINtelligent LINX, both of which can be installed on the computer being used. The appropriate drivers will be made available.




**FTU32**

Driver options include serial and RSLinx ports. When selecting a driver, the Serial 1 and 2 physical communication ports are available to communicate directly to the PanelView terminal serial port or to a 1770-KF2/KE or 1770 KFC without using RSLinx. The other driver selections need RSLinx, which can be installed on the computer being used. The appropriate drivers will be made available when you click on the Refresh List button.




3. Select the Setup button.

**FTU**

If you have selected an INTERCHANGE port, selecting the Setup button opens the INTERCHANGE Device Configuration Utility. For information about configuring INTERCHANGE ports, refer to the *INTERCHANGE Device Configuration Utility User Manual* (Publication Number 5850-6.5.7).

**FTU**

If you have selected a WINtelligent LINX port, selecting the Setup button opens the WINtelligent LINX utility. Refer to the WINtelligent LINX user documentation for information on using the utility.

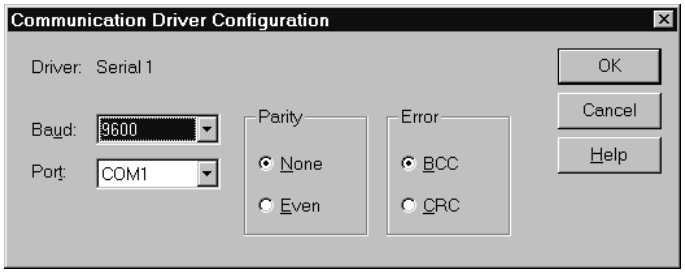
**FTU32**

If you have selected a RSLinx port, selecting the Setup button opens the RSLinx utility. When you return to FTU32, click on the Refresh List button to refresh the list of drivers. Refer to the RSLinx user documentation for information on using the utility.

If you have selected Serial 1 or Serial 2, the Communication Driver Configuration dialog box appears.



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4. Fill in the fields in the Communication Driver Configuration dialog box as follows:

**Baud**
Specify the data-transfer rate between your computer and the PanelView terminal. This must match the baud rate configured for the PanelView terminal. The default setting is 9600.

**Port**
Specify COM1, COM2, COM3, or COM4 as the serial port used to connect the Upload/Download cable or the PanelView terminal. The default setting is COM1.

**Parity**
Specify None or Even for the type of error-checking to be used. This must match the parity configured for the PanelView terminal. The default setting is None.

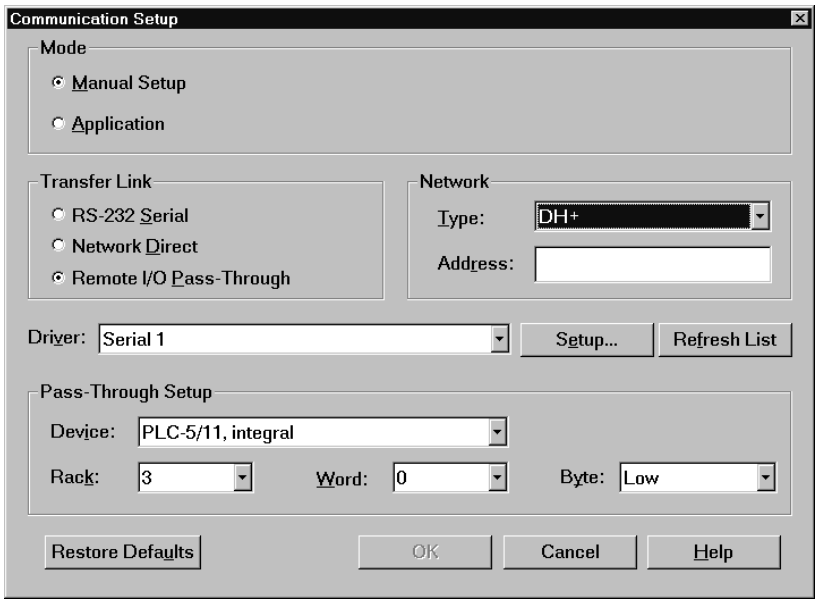
**Error**
Specify the error-detection protocol used by the device. BCC is Block Check Character and CRC is Cyclic Redundancy Check. This must match the error-checking protocol configured for the PanelView terminal. The default setting is BCC.

For details about PanelView terminal transfer configuration settings, see “Transferring Application Files” in Chapter 5, “Configuring PanelView Terminals,” in your *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*.


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### Remote I/O Pass-Through: Transfer Link, Network, Driver, and Pass-Through Setup Configuration

When you select Remote I/O Pass-Through as the transfer link, Network Type, Address, Driver, and Pass-Through Setup are the options you can configure.




#### To select the network:

▶ Specify Network Type and Address settings as follows:

**Type**

**FTU** Specify DH+ or ControlNet as the network to which your PC will be connected.

**FTU32** Specify DH+, ControlNet, or Ethernet as the network to which your PC will be connected.

When you change network types, some parameter settings may be invalid. Any invalid parameter settings will change to the default settings for that selected network type.

**Address**

This is the station address of the PLC on the DH+, ControlNet, or Ethernet (for FTU32 only) network. If the PLC is on a different DH+ network bridged to the PanelBuilder DH+, you must also specify the full bridge address.

For DH+/Remote I/O Pass-Through, specify the PLC address. The range is 0 to 77 (octal).

For ControlNet/Remote I/O Pass-Through, specify the PLC address. The range is 1 to 99 (decimal).



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For Ethernet, specify www.xxx.yyy.zzz, where www, xxx, yyy, and zzz are between 000 and 255 (decimal); or specify one to eight characters, where the first character must be alphabetic.

The bridge address format for DH+ is as follows:

| Station Address | | Valid DH+ Entries |
|---|---|---|
| **ll.rrr.ss** | | |
| ll | local bridge address | 0 – 77 (octal) |
| rrr | remote bridge address | 0 – 376 (octal) |
| ss | station address on remote DH+ | 0 – 77 (octal) |
| | **or** | |
| You can shorten the offlink address by combining the remote bridge and remote station addresses into one three-digit number. The system reads only the first digit of the remote bridge address, and adds the two-digit remote station address to produce a shorter address that still points to the same node. | | |
| **ll.rss** | | 0 – 77 (octal) |
| ll | local bridge address | |
| rss | combined remote bridge address and remote station address | 0 – 376 (octal) |
| **ll** | | |
| ll | local bridge address | 1 – 63 (decimal) |

For bridge address configuration examples, refer to “Planning DH+ or ControlNet Communications” in Chapter 2, “Planning Applications,” of the *PanelBuilder 1400e Configuration Software for Windows User Manual*.

**To select the driver:**

**FTU32**

1. Click on the Refresh List button to refresh the list of drivers.
2. Select the driver. To open a list of available drivers, click on the arrow to the right of the Driver field.



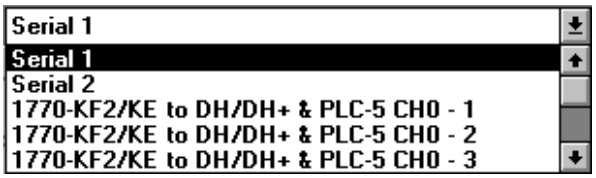
**Note:** Serial 1 and Serial 2 drivers are provided by the transfer utility and enable you to configure two different serial setups (for example, baud rates). Also, they can accommodate the two communication ports on many computers. Refer to the physical communication ports on your computer to determine the correct port for your application.



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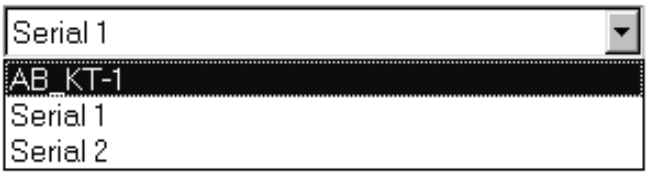
**FTU**

Driver options include serial, INTERCHANGE, and WINtelligent LINX ports. When selecting a driver, the Serial 1 and 2 physical communication ports are available to communicate directly to the PanelView terminal serial port or to a 1770-KF2/KE or 1770 KFC without using INTERCHANGE or WINtelligent LINX. The other driver selections need either INTERCHANGE or WINtelligent LINX, both of which can be installed on the computer being used. The available drivers will be listed.




**FTU32**

Driver options include serial and RSLinx ports. When selecting a driver, the Serial 1 and 2 physical communication ports are available to communicate directly to the PanelView terminal serial port or to a 1770-KF2/KE or 1770 KFC without using RSLinx. The other driver selections need RSLinx, which can be installed on the computer being used. The appropriate drivers will be made available when you click on the Refresh List button.




3. Select the Setup button.

**FTU**

If you have selected an INTERCHANGE port, selecting the Setup button opens the INTERCHANGE Device Configuration Utility. For information about configuring INTERCHANGE ports, refer to the *INTERCHANGE Device Configuration Utility User Manual* (Publication Number 5850-6.5.7).

**FTU**

If you have selected a WINtelligent LINX port, selecting the Setup button opens the WINtelligent LINX utility. Refer to the WINtelligent LINX user documentation for information on using the utility.

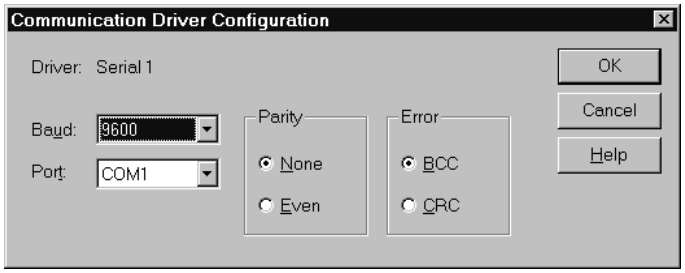
**FTU32**

If you have selected a RSLinx port, selecting the Setup button opens the RSLinx utility. When you return to FTU32, click on the Refresh List button to refresh the list of drivers. Refer to the RSLinx user documentation for information on using the utility.

If you have selected Serial 1 or Serial 2, the Communication Driver Configuration dialog box appears.



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4. Fill in the fields in the Communication Driver Configuration dialog box as follows:

   **Baud**
   Specify the data-transfer rate between your computer and the PanelView terminal. This must match the baud rate configured for the PanelView terminal. The default setting is 9600.

   **Port**
   Specify COM1, COM2, COM3, or COM4 as the serial port used to connect the Upload/Download cable or the PanelView terminal. The default setting is COM1.

   **Parity**
   Specify None or Even for the type of error-checking to be used. This must match the parity configured for the PanelView terminal. The default setting is None.

   **Error**
   Specify the error-detection protocol used by the device. BCC is Block Check Character and CRC is Cyclic Redundancy Check. This must match the error-checking protocol configured for the PanelView terminal. The default setting is BCC.

   For details about PanelView terminal transfer configuration settings, see “Transferring Application Files” in Chapter 5, “Configuring PanelView Terminals,” in your *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*.

**To configure Pass-Through setup parameters:**

▶ If your transfer link is Remote I/O Pass-Through, specify Pass-Through settings as follows:

**Device**
Select the PLC to which the PanelView terminal is connected over Remote I/O. For DH+ Remote I/O Pass-Through, the default device is PLC-5/11 Integral. For ControlNet Pass-Through, the default device is PLC-5/20. For Ethernet Remote Pass-Through, the default device is PLC-5/20.


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**Rack**
Select the rack number that contains the Pass-Through control byte. Your selection should match the rack number configured in your application file or PanelView terminal. The default rack is 3.

**Word**
Select the word in the rack that will contain the Pass-Through control byte. Your selection should match the word configured in your application file or PanelView terminal. The default word is 0.

**Byte**
Specify the High or Low byte of the word that will be used as the Pass-Through control byte. Your selection should match the byte configured in your application file or PanelView terminal. The default byte is Low.

**Scanner Slot**
If the device is set to SLC 1747-SN Series B, you can also configure the slot number (0 to 30) used for Pass-Through. Select 0 to use the 1747-SN Ser B scanner installed nearest to the processor. Select 1 to 30 to use the scanner in the specified slot.

For details about PanelView terminal transfer configuration settings, see “Transferring Application Files” in Chapter 5, “Configuring PanelView Terminals” in your *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*.

## Saving the Communications Settings

To save the communications settings, choose OK from the Communication Setup dialog box. To return to the factory default settings, choose Restore Defaults. The factory default settings are manual mode, serial transfer, and serial 1 driver.


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# Troubleshooting for the PanelView 1200/1400e Transfer Utility

This chapter describes how to diagnose and solve problems you might encounter while transferring applications to PanelView 1000e/1200e/1400e. Refer to the *PanelView 1200 Transfer Utility User Manual* (Publication Number 2711-811) for information about PanelView 1200 terminals and for complete information about communication, PLC, and Pass-Through problems.

The PanelView 1200/1400e Transfer Utility has context-sensitive online help. When an error message appears during any stage of file or application transferring, press **F1** on your keyboard to display the probable causes of the error.

In the PanelView 1200/1400e Transfer Utility, error messages are preceded by a colored icon that indicates the severity of the error. Errors are categorized as either warnings or problems. For warnings, you have the option of ignoring them and continuing the transfer. For problems, the transfer is immediately halted.

## Upload/Download Problems

Use the following table to identify problems you may encounter while trying to upload or download PanelView application files, or upload alarm history.

| Problem | Cause | What to do |
|---|---|---|
| **Application file won't download or upload.** | You are using the wrong serial cable. | Check the serial cable. |
| | The application file is too large. | Ensure the memory size of the application file does not exceed the User Memory Limit. For information on application file size, see Chapter 1, *Introducing PanelView Terminals*, in the *PanelView 1000e/1200e/1400e Operator Terminals User Manual*. |
| | The computer is not connected to the PanelView terminal. | Connect the computer to the PanelView terminal. |
| | The terminal's serial communication port is not configured for upload/download. | Configure the serial communication port for upload/download. |
| | The PanelView terminal is turned off. | Turn on the PanelView terminal. |
| | The PanelView terminal is in the wrong mode when a serial upload/download is attempted. | To transfer an application file serially, ensure the PanelView terminal is in Configure mode; then press the Transfer Application button on the Terminal Configuration screen. |
| | The PanelView terminal is not in Run mode when you attempt a network file transfer. | Put PanelView in Run mode. |



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| Problem | Cause | What to do |
|---|---|---|
| **Application file won't download or upload. (con't)** | The computer's serial port does not work. | Ensure the serial port is working by testing it with another device such as a printer. |
| | Possible corrupt application file. | Try backup file or demo file download and upload. |
| | Some other device may be using the serial port. | Check your hardware connections and reconfigure the serial port. |
| | Pass-through configuration is not properly set up. | For more information about configuring pass-through application file transfers, see Chapter 5, *Configuring Communications Settings for 1000e/1200e/1400e Application Transfers*, in this manual. |
| | You have not selected Transfer Application from the PanelView terminal's Configuration menu. | Choose Transfer Application from the Configuration menu. |
| | Faulty network connection. | Check the network connection in PanelBuilder and/or to the PanelView terminal. |
| | | Check the communication drivers setup. |

## PanelView 1200/1400e Transfer Utility Error Messages

Consult the following table to identify and respond to some common error messages that can appear on the screen when you upload or download data, or upload Alarm History files.

| Message | Cause | What to do |
|---|---|---|
| **Data received too fast from PanelView terminal.** | Upload speed too high. | Reduce baud rate. |
| **Invalid baud.** | Might not be accessing COM port. | Check other program or devices that use the COM port.<br>If there is one, check to see that the internal modem is turned off. |
| **No response from PanelView terminal.** | Baud rate too high. | Reduce baud rate. |
| | Other possible causes are the same as the items marked in the previous table. | See solutions for items marked in the previous table. |
| | Possible corrupt application file. | Try backup file or demo file. |
| | Serial cable becomes disconnected during a serial download. | Ensure the serial cable is properly connected, and try the download again. |
| | Might not be accessing COM port. | Check other program or devices that use the COM port, and ensure that they do not conflict with the interrupt request (IRQ) or the COM settings. |
| **Parity error detected.** | Serial cable becomes disconnected during a serial download. | Ensure the serial cable is properly connected, and try the download again. |
| **Cannot obtain com port.** | The wrong COM port has been chosen with the native serial driver (either Serial 1 or Serial 2). | Select the correct COM port. |
| | The COM port is assigned to an enabled INTERCHANGE port and is trying to be used with the native serial driver (Serial 1 or Serial 2). | Choose the INTERCHANGE port. Or disable INTERCHANGE, reboot, and choose the native serial driver. |



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| Message | Cause | What to do |
|---|---|---|
| **Unable to communicate with terminal.** | During a serial upload/download, the PanelView terminal is not in the Transfer Application screen. | Check that you are in configure mode. On the PanelView terminal, check that you are in the Transfer Application screen and you have selected the Serial tab. |
| | Wrong baud rate. | Check that the baud rate, parity, and error settings on the Transfer Setup screen correspond with the host computer settings. |
| | You cannot perform a serial download. | Check that the COM port you are using is enabled by your Windows operating system. This can be done by checking the Ports settings under Control Panel. For more information, refer to your Windows 3.1, Windows 95, or Windows NT user documentation. |
| | | Check if you are using the same COM port that your mouse is using. Typically, the mouse is plugged into COM 1; however, it may be plugged into COM 2. Check the labelling on the rear of your computer to determine which port the mouse is hooked up to and which port your upload/download cable is hooked up to. |
| | | Check if the COM port you are using is using the same IRQ number as another device in your system. Possible causes of conflict are PCMCIA device cards, Ethernet cards, sound cards, or other PC add-on cards. To determine the IRQ settings for your serial port, refer to your computer's user documentation. |
| | | Check the settings for the port in the Control Panel, and check that the settings match. Then check the IRQ settings for the other devices listed above to ensure there is not a conflict. |
| | | If you have been using another software package to access the serial port (such as a communications package, A-B 6200 software, or even INTERCHANGE), you may need to restart the computer. To do this, close the application using the serial port, disconnect the cable, attach the PanelView upload/download cable, restart your computer, and retry the download. |
| | During a pass-through download or upload, the DH+ cable is not connected correctly. | Check the cable connections. |
| | During a pass-through download or upload, the terminal is not in "pass-through" mode (that is, not in the application transfer screen). | On the PanelView terminal, go to the Transfer Setup screen, select the Network tab, define an RIO Pass-Through, and then switch the terminal into Run mode. |
| | During a pass-through download or upload, the DH+ network address is not correct. | Check the PLC's correct network address. For details on PLC network addresses, see your PLC documentation. |
| **Cannot load Linx Dynamic Link Library.** | You have chosen a WINtelligent LINX or RSLinx driver that is not installed. | Choose a native serial driver. |
| **Problem with communication driver or hardware.** | You have chosen the wrong INTERCHANGE port. | Choose the correct port. |



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| Message | Cause | What to do |
|---|---|---|
| | You have chosen an INTERCHANGE port that is set up incorrectly. | Check that your configuration settings are correct, your network addresses are correct, and you are using the correct equipment. |
| **Host PC failed to communicate with PanelView terminal** | There is no link between the PanelView terminal and the host PC. | Check the link between the PanelView terminal and the host PC. |
| | The PanelView terminal is not in transfer state. | Set the PanelView terminal to a transfer state. |

## General Download and Upload Error Messages

Consult the following table to identify and respond to some common error messages that can appear on the screen when you upload or download data, or upload alarm history.

| Messages/General Types of Messages | Cause | What to do |
|---|---|---|
| **File/path name error messages for either source file or destination file.** | Either no file name was entered, or an incorrect file name was entered. | Be sure you've entered a valid source or destination file name in the File and Path fields. Must have a valid 8-character DOS file name, a valid DOS path, and a valid extension (none, *.pvd to upload/download applications, or *.csv to upload alarm history). The "download as file name" must also satisfy the above conditions. |
| **Selected source file cannot be accessed.** | | Check that the source file path name is correct or that it exists. |
| **Destination file already exists. Do you want to overwrite it?** | Informational or prompt message. | Select Yes to overwrite the destination file. Select No to abort the upload/download. |
| **Destination file cannot be created.** | Probably a problem with the PCMCIA card or flash memory. | Reformat the card, or try another card. If there is still a problem, contact your A-B Sales Representative. |
| **Incompatibility messages.** | Firmware version incompatibility. | Check firmware version compatibility. Obtain the PanelView terminal version from the Terminal Configuration screen. Refer to Appendix E, "Version Control", in the *PanelBuilder 1400e Configuration Software for Windows User Manual*. |
| | Terminal type incompatibility (keypad application versus touch screen applications). | Check terminal type. Obtain this information from the Application window inside the PanelBuilder window. |
| | Communications hardware or driver not present. | Check for supported communications network information, which resides in the PanelView terminal, by pressing the Terminal Information button on the Terminal Configuration screen. For details, see Chapter 5 in the *PanelView 1000e, 1200e, and 1400e Operator Terminals User Manual*.<br><br>For ControlNet, check that the KTCX card is installed in the terminal.<br><br>By default, Remote I/O, ControlNet, and DH+ drivers are the available drivers. To install another driver, use the Serial Firmware Upgrade Utility. |



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| Messages/General Types of Messages | Cause | What to do |
|---|---|---|
| **KTC Control Net Driver Card did not go online. Perhaps network keeper is inoperative.** | ControlNet Version 1.5 KTC card is not recognized by WINtelligent LINX. | ControlNet Version 1.5 is currently not supported. Use ControlNet Version 1.25 until further notice. |
| **Driver: Serial 1. Cannot obtain COM Port. Transfer aborted.** | ControlNet Version 1.5 KFC card is not recognized by WINtelligent LINX or INTERCHANGE. | ControlNet Version 1.5 is currently not supported. Use ControlNet Version 1.25 until further notice. |
| **Driver: KFC to CNet. Problem with communication. Transfer aborted.** | ControlNet Version 1.5 KFC card is not recognized by WINtelligent LINX or INTERCHANGE. | ControlNet Version 1.5 is currently not supported. Use ControlNet Version 1.25 until further notice. |
| **No application has been selected on the PanelView terminal. Cannot upload.** | You have not selected an application. | Select an application on the PanelView terminal before uploading. |
| **Insufficient disk space for the uploaded application.** | The host PC's hard drive does not have enough disk space. | Provide the host PC's hard drive with more disk space, or select another hard drive. |
| **Invalid name for the alarm history file that is being uploaded.** | The alarm history file that is being uploaded does not have a valid name. | Specify the name for the alarm history file that is being uploaded. |
| **This firmware version does not support the alarm history upload feature.** | The current firmware does not support the alarm history upload feature. | Upgrade the firmware to Version 2 or later. |
| **Unable to format the terminal storage. An application is currently running on the PanelView terminal.** | You are attempting to format the terminal storage while a selected application is running. | Deselect the application that is running, if you can. Or download the application to another terminal storage. |



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