Authorizing the TCP/IP protocol

If you purchased TCP/IP capability initially with the printer, the printer is shipped with the protocol already authorized. If you are adding TCP/IP capability to your printer, you need to send the *authorization code* to the printer to authorize the TCP/IP protocol.

The authorization code is printed on a certificate. The certificate is included with your printer (if the TCP/IP option is factory-installed) or with the upgrade kit (if the TCP/IP option is added later).

Note *Retain the certificate; it is your only proof-of-purchase for the TCP/IP option. Tektronix service personnel may need to refer to this number if your printer requires service.*

The authorization code is derived from the printer's hardware address, therefore, each authorization code is valid for only one specific printer. If you are installing several Tektronix printers on your network, be careful to send each authorization code only to the printer for which it has been issued.

Note *If a Tektronix printer receives a valid authorization code that is not its own, it rejects the code and TCP/IP is not authorized.*

You can send the authorization code to the printer from a PC, a Macintosh, or a UNIX host. For instructions on this method, see "Sending the authorization code to the printer."

How to tell if TCP/IP is authorized on your printer

To find out if the TCP/IP protocol is authorized, check the startup page or the configuration page. If TCP/IP is authorized, the authorization code is listed. If TCP/IP is not authorized, the authorization code is listed as all zeros. For information on how to print the configuration page, see the web topic "Your printer's configuration page."

Sending the authorization code to your printer

Authorizing TCP/IP from a PC

To authorize TCP/IP from a PC, use the *AUTHRIZR.EXE* utility on the PC version of your printer's network utilities diskettes. When using the utility, keep in mind the following information about the user interface:

- You can work with the *AUTHRIZR.EXE* utility using a mouse or the keyboard.
- When using the keyboard, the following conventions apply:
  - The **Tab** key moves the selection from one screen element to another.
  - If a screen element has a white letter, you can select that element by holding the **Alt** key and typing the white letter.
  - If a button is highlighted, press **Enter** to execute that function.
  - Use the arrow keys to scroll through lists and select the item you want. Press **Enter** to make your selection.

The following procedure describes how to use the *AUTHRIZR.EXE* utility to authorize TCP/IP. This procedure assumes that the files used in the procedure have been copied into a directory called *PHASER* on the **C:** drive of your PC. It also assumes that the directory structure on the diskette has been retained (as it is when you use the DOS **XCOPY** command with the **/S** option). The directory structure on the diskette has the files you need (*AUTHRIZR.EXE, ADDCTRLD.BAT,* and *CTRLD.PS)* in the *NET-UTIL* directory.

Note *ADDCTRLD.BAT is a batch file that adds a CTRL-D to the beginning and the end of a file. ADDCTRLD.BAT calls the file CTRLD.PS, which contains the CTRL-D character. These files must reside in the same directory. You must change (**CD**) to the directory containing these files before running ADDCTRLD.BAT.*

1. Connect a PC to the printer via the parallel port (see your printer's user manual for details). You can also use a connection over a NetWare network.

2. Turn on the printer.

3. Use the *AUTHRIZR.EXE* utility to create a PostScript file containing the authorization code.

   a. Change to the directory containing the files you copied from the printer's network utilities diskette. Type:

      CD C:\PHASER\NET-UTIL

   b. Run the *AUTHRIZR.EXE* utility. Type:

      AUTHRIZR

c. The **Authorization Code** dialog box appears.

d. Enter the authorization code, including the hyphens (–), in the dialog box and click **OK**.

e. A save dialog box appears. By default, the file is saved in the current directory (*C:\PHASER\NET-UTIL*) with the name *AUTHRIZE.PS*. Click **OK** to save the file.

f. A dialog box appears containing important information about the file created by the Authorizer; read the information and click **OK**.

4. If you are sending the file to the printer via a parallel interface, you must add Control-D characters to the beginning and end of the file. To do this, run *ADDCTRLD.BAT* by typing:

   ADDCTRLD AUTHRIZE.PS

   This adds Control-D's to the file containing the printer's authorization code, *AUTHRIZE.PS*.

5. Use the DOS **COPY** command to send the file containing the authorization code to the printer. For example, if the printer is connected via LPT1, type:

   COPY C:\PHASER\NET-UTIL\AUTHRIZE.PS LPT1:

6. Reset the printer.

Authorizing TCP/IP from a Macintosh

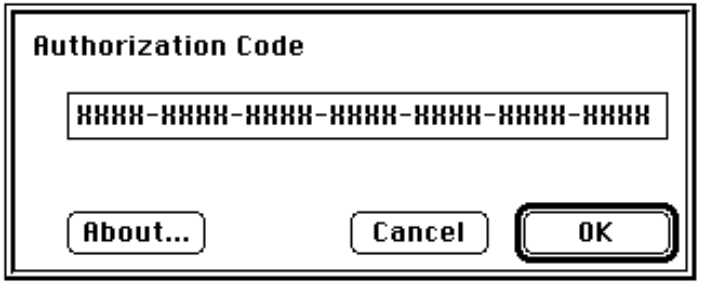
1. Connect a Macintosh to the printer via EtherTalk or TokenTalk.

2. Turn on the printer.

3. Use the *Authorizer* utility to create a PostScript file containing the authorization code:

   a. Locate the Authorizer on the Macintosh version of your printer's network utilities diskettes or copy it onto your hard disk.

   b. Double-click on the *Authorizer* icon. The **Authorization Code** dialog box appears.



   c. Enter the authorization code, including the hyphens (–), in the dialog box.

   d. Click **OK**. A dialog box appears. Type in a name for the PostScript file that will contain the authorization code. Choose a location for the file and click **OK**.

   e. A dialog box appears containing important information about the files created by the Authorizer; read the information and click **OK**.

4. Use the *LaserWriter Utility* to send the PostScript file containing the authorization code to the printer:

   a. Select the printer in the **Chooser**.

   b. Locate the *LaserWriter Utility* on the Macintosh version of your printer's network utilities diskettes.

   c. Double-click on the **LaserWriter Utility** icon.

   d. From the **Utilities** menu, select **Download PostScript File**. Select the name of the file you created in Step 3d from the list, then click the **Open** button.

   e. At the prompt `Save PostScript output as:` you are prompted to name the log file that the *LaserWriter Utility* creates for PostScript errors. Use either the default name given in the edit box or type in a new name. Click **Save** to send the file to the printer.

   f. If the printer reports no PostScript errors, the *LaserWriter Utility* displays a dialog box. Click **OK** in the box to continue.

5. Reset the printer.

Authorizing TCP/IP from a UNIX host

The *authorize-feature* script on the UNIX version of the printer's network utilities diskettes creates a PostScript file that you can send to the printer to authorize the TCP/IP protocol. However, since TCP/IP is not yet authorized, you cannot send the file to the printer using a TCP/IP connection. You must use another connection to send the file to the printer. For example, you could use a parallel connection, if a parallel port is available on the host, or you could use a parallel connection from a PC. For information on authorizing from a PC, see Authorizing TCP/IP from a PC.

Before performing this procedure, you must install the files from the UNIX version of your printer's network utilities diskettes on to your host computer. If you have not already installed the files, see the web topic "Installing files from the UNIX version of the network utilities diskettes."

1. Connect the printer to the host computer's parallel port.
2. Turn on the printer.
3. Run the script *authorize-feature*:
   a. Change (**cd**) to the *bin* subdirectory in the directory where you placed your printer's network utilities.
   b. Type the name of the script, redirecting the output to a file:

      authorize-feature > *filename*

   c. When prompted, enter the authorization code, including the hyphens (–).

4. Since you are sending the file to the printer via a parallel interface, you must add Control-D characters to the beginning and end of the file. Use the script *addctrld* to do this. Type the following command:

   addctrld *filename1.ps* *filename2.ps*

   where *filename1.ps* is the file you want to add CTRL-D characters to, and *filename2.ps* is the revised file with a new name. (Both *filename1.ps* and *filename2.ps* can have the same name, but the original file will be overwritten by the revision.)

5. Send the file with Control-Ds named in Step 4 to the printer using the host spooling system (for example, **lpr** or **lp**)

6. Reset the printer.

Note *You can **remove** all control characters from files using the script **delctrld**. Use this script in the same way as **addctrld**.*

Source: 070-9109-01 C9