Xip CONTROLLER

Getting Started Guide

Introduction

The I-O Xip Controller connects up to fourteen IBM (and IBM compatible) twinax displays and printers to IBM Power Systems (AS/400, iSeries, System i) via Ethernet using industry standard TCP/IP protocols. In addition for IBM legacy midrange systems, the Xip Controller also supports Anynet and SNA protocols.

To further expand the capability of Twinax displays, the controller provides each display with four sessions.   Connections can be made with up to four different IBM host systems.

Installation and Configuration Overview

Knowledge of Windows, OS/400, i5/OS or IBM i and general networking are all that is required to setup the controller.

There are five phases involved in setting up the controller:

1. Connect the twinax devices to the controller.
2. Install the I-O Configuration Utility.
3. Determine which protocol to use for connection to each IBM host.
4. Configure the IBM host.
5. Configure the controller.

Steps 1 and 2 are described in this guide. Steps 3, 4 and 5 are described in detail in the User's Guide that is accessed from the I-O Configuration Utility's Help Menu once the I-O Configuration Utility has been installed.

To assist in configuring the different protocols, a configuration worksheet is found on the last page of this guide. Use this worksheet to record the configuration values used to configure the IBM host and the controller. The detailed instructions found in the User's Guide will guide you through the process of identifying these values.

After completing these steps, the I-O Xip Controller is operational.

Operational Notes

- For each display's twinax address:
  - One display session per Twinax address is create automatically on the first host you have configured in the I-O Configuration Utility. You can create additional sessions by toggling to the next session using Alt-Hex F7. Then press SysReq and enter "h1" for the first host, "h2" for the second, "h3" for the third or "h4" for the fourth host. "h1" is the first host setup in the I-O Configuration Utility, "h2" is the second host, and so on. This causes the display session to be configured on the desired host.
  - To toggle or switch to the next session, press ALT-HEX F7.
  - To toggle or switch to the previous session, press ALT-HEX-F6
  - To change a display session to another host, press SysReq, then enter h1, h2, h3, or h4.)
- For SCS printers, one session will be created on each host.

Installation Process

I.   **Connect** twinax devices to the I-O Xip Controller.

1. Inspect the package for damage. The following will be included:
    *   I-O Xip Controller logic unit with power cable
    *   I-O Configuration Utility CD with Getting Started Guide
2. Install the controller in a rack or other applicable location and connect the power cord.
3. Connect the Ethernet cable.
4. Connect each Twinax device to a Twinax cable (maximum of 7 devices per line).
5. Set the Twinax address on each device.
6. Connect Twinax cables to either the Line 1 or Line 2 Twinax connector on the logic unit.
    Note: Unlike the 5794ip Controller, a star panel may be connected to both Line 1 and
    Line 2 turrets on the Xip Controller for a total of 14 devices.
7. Power up all twinax devices.
8. Power up the controller.

II.   **Install** the I-O Configuration Utility.

1. Insert the I-O Configuration Utility CD in the CD-ROM drive of a Windows 98 or newer PC.
    Note: For Windows 7 machines, right click on the utility and run as administrator.
2. Click Start | Run, and enter "d:\configuration utility\setup.exe", click OK.
3. Follow the on screen prompts.
4. Navigate to the I-O Configuration menu and start the I-O Configuration Utility.

III.   **Determine** Which Protocol to Use.

The I-O Xip Controller provides support for four different protocols on the first IBM host – TCP
(TN5250e and PPR/PPD), SNA and AnyNet. On the second, third and fourth hosts, only
TN5250e is used. The protocol to use on the first host is determined by the following:

1. By the type of printers that are to be attached:
    *   If any printer is an IPDS printer, PPR/PPD, AnyNet or SNA, may be used.
    *   If all printers are SCS, then TN5250e, AnyNet or SNA may be used.

2. Whether the I-O Xip Controller is located locally or remotely:
    *   If the controller is located locally and there is not a router between the controller and the
        IBM host, then TN5250e, SNA, AnyNet, or PPR/PPD may be used.
    *   If the controller is located remotely, or there is a router between the controller and the
        IBM host, then only TN5250e, AnyNet or PPR/PPD may be used.

Refer to the User's Guide for more detailed information on selecting the protocol.

IV.   **Configure** the IBM host.

Use the instructions for the desired protocol as detailed in the User's Guide. **Hint:** Use the
Configuration Worksheet on the last page of this guide to record the configuration values.

V.   **Configure** the I-O Xip Controller.

Follow the detailed instructions in the User's Guide.   Refer to the Configuration Worksheet.

Configuration Worksheet

I-O Xip Controller TCP/IP Address

The controller's address is assigned: ☐ Automatically by DHCP

☐ Manually

TCP/IP Address: ____ . ____ . ____ . ____

Sub-Net Mask: ____ . ____ . ____ . ____

Default Router: ____ . ____ . ____ . ____

TN5250e Configuration

The IBM host's TCP/IP Address is: ____ . ____ . ____ . ____

The Default Telnet Name is: _____

AnyNet Configuration

The IBM host's TCP/IP Address is: ____ . ____ . ____ . ____

The IBM host's Host Control Point Name is: _____

The IBM host's Host Network ID is: _____

The Interface Control Point name for the Xip Controller is: _____

The AnyNet Controller Name is: _____

The AnyNet Remote Control Point Name is: _____

SNA Configuration

The IBM host's Local Adapter Address is: ____ : ____ : ____ : ____ : ____ : ____

The IBM host's Host Control Point Name is: _____

The IBM host's Host Network ID is: _____

The Interface Control Point name for the Xip Controller is: _____

PPR/PPD Configuration (for IPDS Printers)

Refer to the controller user's guide for setup instructions.