

APPENDIX U

Setting up the Lexmark MarkNet X2011E Print Server

The MarkNet X2011E print server works well with MT 645, MT 661, Okidata 321, & Lexmark 4227 Plus printers. This device (if user has lan drop and valid static IP address) will turn a dot matrix printer into a TCP/IP printer. Also works with laser printers without a LAN card.

Things you'll need prior to installation:

1. Lexmark MarkNet X2011E print server (approximately \$225)
2. Lexmark cd-rom labeled **Drivers, MarkVision and Utilities Ver 7.4**. (cd-rom is included with the purchase of the Lexmark MarkNet X2011E print server)
3. Canonical Address (12 character address printed on the base of the print server)
4. 10 BaseT lan cable (to connect print server to 10 BaseT jack on wall)
5. IP Address of the print server (e.g. 155.154.112.226)
6. IP NetMask for the print server (e.g. 255.255.255.0)
7. IP Default Gateway for the print server (e.g. 155.154.112.254)
8. Internet Explorer 5.X or 6.X (to configure the print server)

Connecting the MarkNet X2011E print server to the printer:

1. Turn off and unplug printer.
2. Connect the network (10 BaseT cable) and printer cable to the print server.
3. Connect the print server power supply to print server.
4. Connect printer power cord to one of the dangling cords off the print server power supply.
5. Connect other dangling cord to the power slot on the back of the printer.
6. Plug power cord into a properly grounded electrical outlet.
7. Turn on the printer.
8. Press and release **Menu** and **Test** simultaneously to reset the print server. The Menu and Test buttons are located on top of the print server.

Installing the Print Server TCP/IP Setup Utility:

The **Print Server TCP/IP Setup Utility** lets you remotely assign TCP/IP settings for new devices on the network or modify the devices' current TCP/IP settings for the Lexmark MarkNet X2011E print server. **Platforms supported:** (Windows 95, Windows 98, Windows Me, Windows NT, Windows 2000, Windows XP).

1. Insert the Lexmark cd-rom labeled **Drivers, MarkVision and Utilities Ver 7.4** into the cd-rom drive on your Windows desktop PC. It will auto boot.
2. Click on Printer Software.
3. Click Agree to accept the license agreement.

4. Select Custom Install, and then click Next.
5. Select Local Computer, and then click Next.
6. In the Custom Setup dialog box, select **Network Support**. BiDi Support for Drivers is required for Network support (it's selected automatically).
7. Click **Printer Drivers** to cancel installation of drivers and then click **Next**.
8. In the Custom Setup - Installation Options dialog box, select the **Network** tab.
9. Select **TCP/IP** and **Print Server TCP/IP Setup Utility**. If TCP/IP is already installed on your system, TCP/IP is preselected for you.
10. Click **Finish**.
11. Click **OK**.
12. Click **Exit** on the Drivers, Markvision and Utilities Window.
13. Remove cd-rom from the drive.

Configuring the Network Settings on the MarkNet X2011E print server:

1. Click **Start**.
2. Click **Programs**.
3. Click **Lexmark**.
4. Click **Print Server Setup Utility**.
5. Click **Print Server Setup Utility**.
6. Enter **Print Server Physical Address** (12 character canonical address listed on the bottom of the print server)
7. Click **Next**.
8. Enter the **IP Address**, **IP NetMask**, and **IP Default Gateway**.
9. Uncheck **Enable BOOTP**, **Enable DHCP**, and **Enable RARP**.
10. Click **Apply**.
11. If printer server was configured properly, click **OK**. If not, check to make sure all the values are correct and go back to step # 8.
12. Click **Exit**.

Enabling the Form Feed and setting a password for the MarkNet X2011E print server:

1. Open Internet Explorer on your desktop PC.
2. In the Address field, enter the **ip address** of the print server and then press enter.
3. If you see a security warning to run and install 'Status Applet' from Lexmark, click **yes** to proceed.
4. Click on **Configuration**.
5. Click on **Parallel 1**.
6. Check the box next to **Parallel 1 EOJ Form Feed**.
7. Click **Submit**. Print Server will refresh the screen in a few seconds.
8. Click **Configuration**.
9. Click **Security**.

10. Enter a **password** (up to 8 alpha-numeric characters in length) twice.
11. Click **Submit**. Print Server will refresh the screen in a few seconds. **NOTE:** the user name to login is **MarkNet**. Make sure that you write down the username and your password and place in a secure location. If you forget your password, you'll have to reset the print server and all your settings will be lost.

Adding a dot-matrix printer to the AFMIS Unixware 7.1.1 server:

1. If you are replacing an existing print server, ensure that the ip address and name of the print server are still the same in the /etc/hosts file on the AFMIS UNIX server. No other changes are required and you are finished. If this is a new print server, then proceed to step #2 below.
2. You'll need to add the **ip address** and **name** to the /etc/hosts file on the AFMIS UNIX Server. For this Appendix, we'll add a **Lexmark 4227 Plus** printer to the Unix server.
3. Log into the AFMIS UNIX server as the root user.
4. Open a terminal window and change directory to /etc. Edit the hosts files and add a new line with the ip address and print server name (e.g. 155.154.112.226 & lexhs respectively).
5. Save the hosts file.
6. Utilize the SCO admin tool from the toolbar to add a new TCP/IP printer.
7. Double Click **Printer Setup Manager**.
8. Click **Printer**.
9. Click **Add TCP/IP Printer**.
10. Enter **Name of Printer** (Same as the name of the print server in the /etc/hosts file. In this example we are using **lexhs**).
11. Enter **Make/Model**. For the Lexmark 4227 Plus printer, choose **Epson FX 850**. (Note: for the okidata321 printer, choose **ibmproprinter**)
12. For the **Printer Connection Type**, choose **On Remote Server**.
13. Enter **Remote System Name**. (Same as the ip address of the print server in the /etc/hosts file. In this example we are using **155.154.112.226**).
14. Enter **Remote Printer Name**. In this field, enter **queueff1**.
15. Click **OK**.
16. Click **Server**.
17. Click **Halt**.
18. Click **OK**.
19. Click **Server**.
20. Click **Start**.
21. Click **OK**.
22. Close SCO Admin tool.
23. Test your new print server by sending a print job. Ensure that it looks satisfactory to you.
24. If you have any problems and can not resolve them by yourself, feel free to contact CAO for further assistance (DSN 687.1051, 804.734.1051 commercial).