



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for XEROX PHASER 7800. You'll find the answers to all your questions on the XEROX PHASER 7800 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual XEROX PHASER 7800**  
**User guide XEROX PHASER 7800**  
**Operating instructions XEROX PHASER 7800**  
**Instructions for use XEROX PHASER 7800**  
**Instruction manual XEROX PHASER 7800**

Xerox Phaser 7800  
Color Printer  
Imprimante couleur



Xerox® Phaser® 7800  
System Administrator Guide  
Guide de l'administrateur système



[You're reading an excerpt. Click here to read official XEROX PHASER 7800 user guide](http://yourpdfguides.com/dref/4277645)  
<http://yourpdfguides.com/dref/4277645>

**Manual abstract:**

@@@@@XEROX® and XEROX and Design®, Phaser®, PhaserSMART®, CentreWare®, PrintingScout®, Walk-Up®, WorkCentre®, FreeFlow®, SMARTsend®, Scan to PC Desktop®, MeterAssistant®, SuppliesAssistanti®, Xerox Secure Access Unified ID System®, Xerox Extensible Interface Platform®, ColorQube®, Global Print Driver®, and Mobile Express Driver® are trademarks of Xerox Corporation in the United States and/or other countries. Adobe® Reader®, Adobe® Type Manager®, ATMTM, Flash®, Macromedia®, Photoshop®, and PostScript® are trademarks of Adobe Systems Incorporated in the United States and/or other countries. Apple®, AppleTalk®, Bonjour®, EtherTalk®, Macintosh®, Mac OS®, and TrueType® are trademarks of Apple Inc., registered in the U.S. and other countries. HP-GL®, HP-UX®, and PCL® are trademarks of Hewlett-Packard Corporation in the United States and/or other countries. @@@@ in the United States and other countries. @@ or its subsidiaries in the United States and/or other countries. UNIX® is a trademark in the United States and other countries, licensed exclusively through X/Open Company Limited.

Document version 1.0: October 2011 Contents 1 Introduction 7 Overview ....

.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

..... 8 Configuration Steps .....

.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....

..... 8 More Information .

.....  
.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*..... 9.2 Initial Setup 11 Physically Connecting the Printer .....*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*..... 12 Initial Setup at the Control Panel ..*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*. 13 System Administrator Access .....*

.....

.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
*.... 13 Manually Setting the Ethernet Interface Speed .*

.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
*. 13 Assigning a Network Address ....*

.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
*.... 13 Initial Setup in CentreWare Internet Services .*

.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....



.....  
.....  
.....  
.....

.....  
.....  
*.... 15 Disabling the Configuration Report at Startup .*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
*... 15 Using the Configuration Overview Page ..*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

*15 Assigning the Printer Name and Location .....*

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

*..... 15 Physical Connection Settings .*

.....  
.....  
.....

.....  
.....  
.....  
.....

.....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*16 Setting Ethernet Options.....*

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

*.. 16 Configuring USB Port Settings .....*

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

*... 16 3 Network Configuration 17 AppleTalk .....*

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....

.....

.....

.....

.....

.....

.....

.....

*.. 18 NetWare .....*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*... 19 Configuring NetWare Settings..*

.....

.....

.....

.....

.....

.....

.....

.....

.....

*.... 19 Service Advertising Protocol .*

.....

.....



.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*19 Configuring NetWare Bindery Settings .....*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

*.... 20 Configuring NetWare Directory Services (NDS) Settings .....*

.....  
.....  
.....

.....  
.....  
.....  
.....

*.... 20 IP .*

.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....

.....  
.....

.....  
.....  
.....

.....  
.....

.... 21 Configuring TCP/IP Settings at the Control Panel.

.....  
.....  
.....  
.....

.....  
.....  
.....

... 21 Configuring IP Settings in CentreWare Internet Services ..

.....  
.....  
.....  
.....  
.....

.....  
.....

.. 22 SLP .....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.... 26 Configuring SLP .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

... 26 *SNMP* .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

27 *Enabling SNMP* .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*27 Configuring SNMPv1/v2c .....*

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

*. 27 Configuring SNMPv3 .....*

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*28 Configuring SNMP Advanced Settings .....*

.....  
.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....  
.....  
.....

..... 29 Phaser 7800 Color Printer System Administrator Guide 3 Contents SSDP.....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... 30 Microsoft Networking.....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

31 Configuring Microsoft Networking .....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*... 31 Configuring WINS.....*

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....

*... 31 LPR/LPD ..*

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

*32 Raw TCP/IP Printing .....*



.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*.. 35 Configuring SMTP Settings .....*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*..... 35 Configuring SMTP Settings Optional Information .*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*.. 35 HTTP .....*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....





.....  
.....  
.....  
.....  
.....  
..... *37 Configuring the Proxy Server* ..

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.. *37 NTP* .....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

... *38 WSD* .....

.....  
.....  
.....

.....  
.....  
.....  
.....



.....  
39 4 Security 41 Setting Web Page Access Rights .....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

..... 42 Secure HTTP (SSL) .....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

..... 43 Enabling HTTPS (SSL) ...

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
*43 FIPS 140-2 .....*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*.. 44 Enabling FIPS 140 Mode and Checking for Compliance .....*

.....

.....

.....

.....

.....

.....

.....

.....

*... 45 Stored Data Encryption ..*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*..... 46 Enabling Encryption of Stored Data .....*



... 47 Editing ® Services for UNIX Systems .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

67 Printing from a Linux Workstation .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... 68 Adding the Printer..

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

... 69 Printing with CUPS .....

.....  
.....  
.....





.....  
.....  
.....  
.....  
.....

..... *87 Printing Troubleshooting Guides and Test Pages or Viewing Fault History ...*

.....  
.....  
.....

.....  
.. *87 Service Tools ...*

.....  
.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

..... *88 Using Service Tools.....*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....

... *88 7 Customization and Expansion 89 Driver Download Link ..*

.....

.....  
.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.... *90 Customizing or Hiding the Driver Download Link* .

.....  
.....

.....  
.....  
.....

.....  
.....  
.....

..... *90 6 Phaser 7800 Color Printer System Administrator Guide Introduction 1 This chapter includes: Overview* .

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

..... *8 More Information* .....



*xerox.com/office/7800supplies* A resource for tools and information, such as *www.xerox.com/office/businessresourcecenter* interactive tutorials, printing templates, helpful tips, and customized features to meet your individual needs.

Local sales and support center Printer registration Xerox Direct online store ® *www.xerox.com/office/worldcontacts* *www.xerox.com/office/register* *www.direct.xerox.com/ Phaser 7800 Color Printer System Administrator Guide 9 Initial Setup 2 This chapter includes: Physically Connecting the Printer .....*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*..... 12 Initial Setup at the Control Panel ..*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*.... 13 Initial Setup in CentreWare Internet Services .....*

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*. 14 Physical Connection Settings ....*

.....

.....

.....



AppleTalk .....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....

18 NetWare .



[You're reading an excerpt. Click here to read official XEROX PHASER 7800 user guide](http://yourpdfguides.com/dref/4277645)  
<http://yourpdfguides.com/dref/4277645>

....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... *19 IP* ..

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... *21 SLP* ..

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.. 26 *SNMP* .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.. 27 *SSDP* .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....







.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... *36 Proxy Server.*

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... *37 NTP ...*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....



Note: When the printer uses Bindery mode, the NDS Tree and NDS Context fields are blank. Configuring NetWare Directory Services (NDS) Settings NetWare Directory Services (NDS) is a hierarchical, object-oriented database that represents all of the assets of an organization in a logical tree structure. Assets can include printers, servers, computers, people, organizations, and more. 1. Under NetWare Directory Services (NDS), select the preferred address type. Select IPv4 to set a static IPv4 address or select Host Name to configure with an NDS server. 2. Type a name for the NDS tree. The default entry for this field is Xerox\_DS\_Tree. If you are using bindery or bindery emulation, leave this field blank.

3. Type a name for the context. The default entry for this field is Xerox\_DS\_Context. If you are using bindery or bindery emulation, leave this field blank. 4. @@5. Click Default All to reset settings to default values. 20 Phaser 7800 Color Printer System Administrator Guide Network Configuration IP Internet Protocol (IP) is a protocol within the Internet Protocol Suite that manages the transmission of messages from computer to computer. Configuring TCP/IP Settings at the Control Panel Configuring the IPv4 Network Address Manually 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

At the control panel, touch Printer. Touch the Tools tab, then touch Setup. Touch Network & USB. Touch Ethernet. Touch TCP/IP (v4). Touch On:Static IP. Touch IP Address and type the address using the keypad. Touch OK. Touch Network Mask and type the network mask using the keypad. Touch OK. Touch Gateway Address and type the address using the keypad. Touch OK. Configuring the IPv6 Network Address Manually 1. 2. 3. 4. 5. 6. 7. 8.

9. 10. 11. At the control panel, touch Printer. Touch the Tools tab, then touch Setup. Touch Network & USB. Touch Ethernet. Touch TCP/IP (v6). Touch Manual. Select the Enable Manual IPv6 check box.

To change the Prefix Length, touch Prefix Length and type the prefix length using the keypad. Touch OK. Type the address using the keypad. Touch OK. Phaser 7800 Color Printer System Administrator Guide 21 Network Configuration Configuring Dynamic Address Settings for IPv4 1. 2. 3. 4. 5. 6. 7. At the control panel, touch Printer. Touch the Tools tab, then touch Setup. Touch Network & USB. Touch Ethernet. Touch TCP/IP (v4). Touch On:DHCP. Touch OK. Configuring Dynamic Address Settings for IPv6 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. At the control panel, touch Printer. Touch the Tools tab, then touch Setup.

Touch Network & USB. Touch Ethernet. Touch TCP/IP (v6). Touch DHCPv6. Select Enable DHCPv6. Under Mode, select Router, Stateful, or Stateless. Touch Apply Now. Touch OK. Configuring IP Settings in CentreWare Internet Services If your printer has a valid network address, you can configure TCP/IP settings in CentreWare Internet Services. Configuring IPv4 You can use IPv4 or IPv6 in addition to or in place of the other.

1. @@2. Click IP (Internet Protocol) > IPv4. 3. Under Protocol, select Enabled to enable the protocol.

CAUTION: If both IPv4 and IPv6 are disabled, you cannot access CentreWare Internet Services. To access IPv4 and IPv6 settings in CentreWare Internet Services, enable TCP/IP at the printer control panel. If you disable TCP/IP or change the IP address, any dependent protocols are disabled and the network controller restarts. 22 Phaser 7800 Color Printer System Administrator Guide Network Configuration 4. 5.

6. 7. 8. Under IP Address Resolution select an option from the drop-down list. Depending on the option you select, some or all of the fields can be disabled. STATIC: This option disables dynamic addressing and allows you to type a static IP address. Type the Machine IP Address, Subnet Mask, and Gateway Address. BOOTP: This option allows your DHCP server to assign an IP address to the printer. Dynamic DNS Registration is enabled. DHCP: This option allows your DHCP server to assign an IP address to the printer.



[You're reading an excerpt. Click here to read official XEROX PHASER 7800 user guide](http://yourpdfguides.com/dref/4277645)

<http://yourpdfguides.com/dref/4277645>

Dynamic DNS Registration is enabled. Select Enabled under Release Registration to send a release request to the DHCP and DNS servers. If the servers grant the request, the current IP address and any dynamic DNS name are released when the printer is turned off. Under Zero-Configuration Networking, select Enabled under Self Assigned Address. This option instructs the printer to assign itself an address if a DHCP server does not provide one. @@ Click Default All to reset settings to default values. This option also disables FIPS 140 mode. Configuring Settings for IPv6 IPv6 hosts can automatically configure themselves when connected to a routed IPv6 network using the Internet Control Message Protocol Version 6 (ICMPv6). ICMPv6 performs error reporting for IP along with other diagnostic functions. When first connected to a network, a host sends a link-local multicast router solicitation request for configuration parameters.

If suitably configured, routers respond to this request with a router advertisement packet containing network-layer configuration parameters. 1. @@2. Click IP > IPv6. 3.

Under Protocol, select Enabled to enable the protocol. CAUTION: If both IPv4 and IPv6 are disabled, you cannot access CentreWare Internet Services. To access IPv4 and IPv6 settings in CentreWare Internet Services, enable TCP/IP at the printer control panel. If you disable TCP/IP or change the IP address, any dependent protocols are disabled and the network controller restarts. 4.

5. Under Stateless Addresses, enable Use Router Supplied Prefixes to allow the router to assign address prefixes. Under Default Dynamic Host Configuration Protocol (DHCP) Settings, select how DHCP operates for IPv6. Options are: Use DHCP as directed by a router Always enable DHCP for address assignment and other configuration data Always enable DHCP for other configuration data only Never use DHCP Phaser 7800 Color Printer System Administrator Guide 23 Network Configuration Select Release DHCPv6 Address at Power Down to release the current DHCP-assigned address and any DNS name when the printer is turned off. 7. Select Enable Manual Address to specify an address manually. Select a Router Prefix from the menu, or type a new router prefix and click Add. 8. Select Prefer IPv6 Address over IPv4 to use an IPv6 address before using an IPv4 address. 9.

@@10. Click Default All to reset settings to default values. 6. DNS Domain Name System (DNS) and Dynamic Domain Name System (DDNS) are systems that map host names to IP addresses. 1. @@2. Click IP (Internet Protocol) > DNS. 3. Under Host Name, type a unique name for your printer. If the host name successfully registers to the DNS server, the host name appears under Verified Host Name.

The default host name is XRX\_XXX, where XXX is the MAC address of the printer. Note: If no host name, or a different host name appears under Verified Host Name, the host name did not successfully register to the DNS server. Ensure that your network supports direct client DNS name registration, or configure your DHCP server to perform updates on behalf of the DHCP clients. Configure your DNS server to allow dynamic updates. 4.

Under Domain Name, type the name of the domain to which the printer is connected. If the domain name successfully registers to the DNS server, the domain name appears under Verified Domain Name. Note: If no domain name, or a different domain name appears, the domain name did not successfully register to the DNS server. Ensure that your network supports direct client DNS name registration, or configure your DHCP server to perform updates on behalf of the DHCP clients. Configure your DNS server to allow dynamic updates.

5. Select Enabled under Dynamic DNS Registration of IPv4 Address, or Dynamic DNS Registration of IPv6 Address, if desired. This option allows your DDNS server to register the host name of the printer automatically. If you change the host name in CentreWare Internet Services, the registered host name is updated on your DDNS server. Clear the Enabled check box if your network does not support dynamic name addressing. Manage host names in the DNS server manually. Under Remove this Device's IPv4 DNS Registration, select Enabled if necessary. This option allows the printer to send a release request to the DHCP and DNS servers. If the servers grant the request, the current IP address and any dynamic DNS name are released when the printer is turned off. Under Remove this Device's IPv6 DNS Registration at power down, select Enabled if necessary.

This option allows the printer to release the current DHCP-assigned address and any DNS name when the printer is turned off. 6. 7. 24 Phaser 7800 Color Printer System Administrator Guide Network Configuration 8. 9. 10. 11. 12. 13. 14.

To allow users to see and connect to the printer using Bonjour, under Multicast DNS Registration, select Enabled. If you have a DHCP server, and the printer recognizes your DNS server, the address appears under DNS Server Addresses. If you want to use other DNS servers, type the IPv4 or IPv6 server address under Additional DNS Server Addresses. Under DNS Connection Timeout, type the time in seconds that the printer waits if it fails to connect to a DNS server.

After the timeout period, the printer attempts to connect to any additional DNS servers.

If you have a DHCP server, recognized search domain names appear in a list under Domain Name Search List. The list of domain names allows the DNS server to recognize unqualified host names. If you want the printer to search for other domain names, type the domain names under Additional Search Domains. Under Append Device Domain, select Enabled to add the domain of the printer to the Domain Name Search List. Under Append Parent Domains, select Enabled to add the parent domains of the printer to the Domain Name Search List.

Click Apply. Phaser 7800 Color Printer System Administrator Guide 25 Network Configuration SLP Printers use Service Location Protocol (SLP) to announce and look up services on a local network without prior configuration. When SLP is enabled, the printer becomes a Service Agent (SA) and announces its services to User Agents (UA) on the network using SLP. Directory Agents (DA) are components that cache services. They are used in larger networks to reduce the amount of traffic. DAs are optional. If a DA is present, then User Agents (UAs) and System Agents (SAs) are required to use it instead of communicating directly with the printer. Configuring SLP 1. 2. 3.

4. 5. @@ Click SLP. Under Protocol, select Enabled. Under Directory Agent, type the IP address for the Directory Agent (DA), if one is used. This entry is optional. If you use scopes to group services, type in the Scope 1, 2, and 3 names. Printers cannot see services that are in different scopes. Under Message Type, select Multicast to route multicast packets between subnets, or select Broadcast not to route packets between subnets. Select the Multicast Radius value between 0255.

This value defines how many routers the multicast packet can cross.



[You're reading an excerpt. Click here to read official XEROX](http://yourpdfguides.com/dref/4277645)

[PHASER 7800 user guide](http://yourpdfguides.com/dref/4277645)

<http://yourpdfguides.com/dref/4277645>

The default value is 255. Select a value for Maximum Transmission Unit (MTU) size between 48432768 bytes. The default value is 1400 bytes. Note: The maximum MTU for IP over Ethernet is 1500 bytes.

8. 9. @@Click Default All to reset settings to default values. 6. 7.

26 Phaser 7800 Color Printer System Administrator Guide Network Configuration SNMP Simple Network Management Protocol (SNMP) is a set of network protocols designed to allow you to manage and monitor devices on your network. You can use the SNMP configuration pages in CentreWare Internet Services to: Enable or disable Authentication Failure Generic Traps. Enable SNMPv3 to create an encrypted channel for secure printer management. Assign privacy, authentication protocols, and keys to Administrative and key user accounts. Assign read and write access to User accounts. Limit SNMP access to the printer using hosts. Enabling SNMP 1. 2. 3. 4.

5. 6. @@Click SNMP. Select Enable SNMP v1/v2c Protocols to enable the protocol. Select Enable SMNP v3 Protocols to enable the protocol. Under Authentication Failure Generic Traps, select Enable to prompt the printer to generate a trap for every SNMP request processed with an invalid community name. @@Note: Click Apply after enabling the protocols and before navigating to any other pages to ensure that your settings are saved. Configuring SNMPv1/v2c SNMP version 1 (SNMPv1) is the initial implementation of the SNMP protocol. SNMPv1 operates over protocols such as User Datagram Protocol (UDP), IP, and Novell Internet Packet Exchange (IPX). SNMPv2c includes improvements in performance, confidentiality, and manager-to-manager communications over SNMPv1, however it uses the simple-community based security scheme of SNMPv1.

1. @@2. Click SNMP. 3. Under SNMP Properties, click Edit SNMPv1/v2c Properties.

4. Type a name up to 256 characters for the GET Community Name or use the default value of public. GET returns the password for the SNMP GET requests to the printer. Applications obtaining information from the printer using SNMP, such as CentreWare Internet Services, use this password. Phaser 7800 Color Printer System Administrator Guide 27 Network Configuration 5.

Type a name up to 256 characters for the SET Community Name or use the default value of private. SET returns the password for the SNMP SET requests to the printer. Applications that set information on the printer using SNMP use this password. CAUTION: Changes made to the GET or SET community names for this printer require corresponding changes to GET or SET community names applications using SNMP. 6. Type a name up to 256 characters for the default TRAP Community Name or use the default value of SNMP\_TRAP. Note: Use the Default TRAP Community Name to specify the default community name for all traps generated by this printer. Individual Trap Community Names specified for each trap destination address can override the community name. Each Trap Community Name must be unique. 7.

Click Save to apply the new settings or Undo to retain the previous settings. Click Cancel to return to the previous page. Configuring SNMPv3 SNMPv3 is the current standard version of SNMP defined by the Internet Engineering Task Force (IETF). It provides three important security features: Message integrity to ensure that a packet has not been tampered with in transit Authentication to verify that the message is from a valid source Encryption of packets to prevent unauthorized access Before you begin: Ensure that Secure HTTP (SSL) is enabled. Ensure that a certificate is installed on the printer. Editing SNMPv3 Properties 1. 2. 3. 4. 5.

6. @@Click SNMP. Under SNMP Properties, click Edit SNMP v3 Properties. Under Administrator Account, select Account Enabled to create the administrator account. Type and confirm the Authentication Password.

The Authentication Password is used to generate a key used for authentication. Type and confirm the Privacy Password. The Privacy Password is used for encryption of SNMPv3 data. The passphrase used to encrypt the data must match the passphrase on the Server. Note: The passwords must be at least 8 characters in length and can include any characters except control characters.

7. Select the checkbox to save new password. 28 Phaser 7800 Color Printer System Administrator Guide Network Configuration Under Print Drivers/Remote Clients Account, click Account Enabled. To reset the default password, click Reset. This account allows Xerox® clients and drivers limited access to objects on the printer. 9. Click Save to apply the new settings or Undo to retain the previous settings. 10. Click Cancel to return to the previous page. 8.

Configuring SNMP Advanced Settings You can add, edit, or delete IP and IPX addresses for Network Management workstations that receive traps from the printer. Configuring SNMP Advanced Settings 1. 2. 3. 4. 5. 6. 7. @@Click SNMP. Click Advanced Settings.

To add an IP trap destination address, under Trap Destination Addresses, click Add IP Address. To add an IPX trap destination address, under Trap Destination Addresses, click Add IPX Address. To edit an address, next to the address click Edit. To delete an address, select the check box next to the address and click Delete. Adding or Editing an IP Trap Destination Address 1.

2. 3. 4. 5. 6.

7. On the Advanced Settings page, click Add IPX Address, or select an existing address and click Edit. Type the IP address of the host running the SNMP manager that receives traps. Type the UDP Port Number. The default is 162 for traps. Select the SNMP version based on what the system receiving traps supports. Select the type of traps that the SNMP manager receives under Traps to be Received. Click Save to apply the new settings or Undo to retain the previous settings. Click Cancel to return to the previous page. Adding or Editing an IPX Trap Destination Address 1.

2. 3. 4. 5. 6. 7. 8. On the Advanced Settings page, click Add IP Address, or select an existing address and click Edit. Type the 8-digit hexadecimal number that identifies the IPX External Network host configured to receive the trap. Type the 48-bit Physical MAC Address of the computer running the SMNP manager application receiving the trap.

Type the IPX Socket Number of the computer running the SNMP manager application configured to receive the packets. The default IPX Socket Number is 9010. Select the SNMP Version. Select the type of traps that the SNMP manager receives under Traps to be Received. Click Save to apply the new settings or Undo to retain the previous settings.

Click Cancel to return to the previous page. Phaser 7800 Color Printer System Administrator Guide 29 Network Configuration SSDP Simple Service Discovery Protocol (SSDP) provides processes to allow network clients with little or no static configuration to discover network services. SSDP provides multicast discovery, server-based notification, and discovery routing options. 1. @@2.

Click SSDP. 3. Under Protocol, select Enabled. 4. Under Cache Control, type a value between 143200 minutes.



[You're reading an excerpt. Click here to read official XEROX](http://yourpdfguides.com/dref/4277645)

[PHASER 7800 user guide](http://yourpdfguides.com/dref/4277645)

<http://yourpdfguides.com/dref/4277645>



The default value is 1440 minutes. 5. Under Time to Live, type a number between 160 router hops for discovery advertisement. The default number of hops is 4. 6.

@@Click Default All to reset settings to default values. 30 Phaser 7800 Color Printer System Administrator Guide Network Configuration Microsoft Networking When running WINS, the printer registers its IP address and NetBIOS Host Name with a WINS server. WINS allows the printer to communicate using host name only. Using Microsoft Networking removes significant overhead for systems administrators. Configuring Microsoft Networking @@Click Microsoft Networking. Under Protocol, select Enabled to enable the protocol. Type the name of the workgroup in the Workgroup field. Type the host name used to provide shared access and authenticate interprocess communication in the SMB Host Name field. 6. If desired, type a descriptive comment in the SMB Host Name Comment field.

7. Type the name of the share in the Share Name field. 8. If desired, type a descriptive comment in the Share Name Comment field. 9. Type the maximum number of connections allowed, between 1030, in Maximum Connections. 10. Type the desired number of seconds, between 132767, until the connection times out. 1. 2.

3. 4. 5. Configuring WINS 1. 2. 3. Under Server Information, select Enabled to enable the protocol. Type the IP Address for your primary server. If desired, type an IP Address for a secondary server. Note: If DHCP is configured, WINS IP Addresses are overridden.

4. Phaser 7800 Color Printer System Administrator Guide 31 Network Configuration LPR/LPD 1. The Line Printer Daemon (LPD) and Line Printer Remote (LPR) protocols provide printer spooling and network print server functionality for UNIX-based systems, such as HP-UX, Linux, and Macintosh. @@Click LPR/LPD. Under Protocol, select Enable. Type an LPR/LPD Port Number or use the default port number of 515. Under Advanced Settings, select Enabled to allow PDL Switching. This option allows the printer to process a single print job that contains two or more printer languages. An example is a PostScript print job with a PCL header. Select Enabled to enable PDL banner page attributes override LPR control file attributes for job name and owner. This feature allows you to replace the standard information displayed on a banner page with the user name and job name from the print job. Select the desired option from the Place temporary hold on which jobs drop-down menu. Options include: None (Use printer's default banner sheet job name if data file 1st): The printer does not wait to receive the job control information. This selection can cause banner page information to print incorrectly. Only those with data file received 1st: The printer holds the job if the data file for the job is received first.

This option ensures that the printer waits to receive the control file information to print banner page details correctly. All (consistent with older implementations): This option puts all jobs on hold. All data is received before a job begins printing. This setting can cause jobs to print slowly but results in accurate banner page information. @@3.

4. 5. 6. 7. 8. 32 Phaser 7800 Color Printer System Administrator Guide Network Configuration Raw TCP/IP Printing Raw TCP/IP is used to open a TCP socket-level connection over Port 9100, and stream a print-ready file to the printer input buffer. It then closes the connection either after sensing an End Of Job character in the PDL or after expiration of a preset timeout value. Port 9100 does not require an LPR request from the computer or the use of an LPD running on the printer. Raw TCP/IP printing is selected in Windows as the Standard TCP/IP port. Configuring Raw TCP/IP Settings 1.

2. 3. 4. 5. 6. 7. 8. 9. @@Click Raw TCP/IP Printing. Select Enabled to enable the protocol. Ensure that the TCP Port Number is set to 9100 for Port 1. If you want to emulate HP JetDirect EX Plus 3, set Port 2 to 9101 and Port 3 to 9102. Select Enabled for bidirectional communication. Set the Maximum Connections per port between 132 for each port. The default port value is 32. Set the End of Job Timeout to the desired number of seconds between 01800 before the job is processed with an End of Job character. The default time is 300 seconds. Select Enabled for PDL Switching to allow the printer to switch automatically between multiple supported PDLs within a single job. PDL switching is normally disabled. @@Click Default All to reset settings to default values.

Note: Enable TCP/IP before enabling Raw TCP/IP printing. Configuring Raw TCP/IP Advanced Settings Use this page to set additional Raw TCP/IP Printing options for Ports 1, 2, and 3. To configure Advanced Settings: 1. Under Connections, set the following: Set the Maximum Connections per port between 132. The default port value is 32. To allow concurrent jobs to process for each port connection, type a number between 0500 jobs in each port. Type 0 to allow unlimited concurrent jobs. To limit the number of jobs that are active for each port connection, type a number between 032768. Type 0 to allow unlimited number of active jobs. 2.

Under Job Boundary Determination: Type the End of Job Timeout between 01800 seconds to specify the amount of time to pass before a job processes with an End of Job character. The default time is 300 seconds. Type 0 to disable end of job detection by timeout. Phaser 7800 Color Printer System Administrator Guide 33 Network Configuration 3. Under Backchannel Data: Enable Backchannel Data Transmission to Client, then, enable Out of Order Backchannel Data to allow data from several jobs to be interspersed. Note: Out of Order Backchannel Data is only available when Backchannel Data Transmission to Client is enabled. 4. 5. Under Banner Page Printing: To restrict banner pages to print for specific jobs only, select the job types from the Banner Page Enabled drop-down menu. Options are First Job Only, No Jobs, or All Jobs.

To enable banner pages to print before each PDL document within a single job, select Enabled for Banner Page for Each Document of Job. To restrict banner pages to print for jobs that specifically request them through PJJ, select Enabled for Banner Page for Job Containing only PJJ Commands. Miscellaneous To allow the printer to switch between multiple PDLs within a single job, select Enabled for Language (PDL) Switching within PJJ Job. To force parsing of job data, select Enabled for Job Data Parsing Override. Note: Job data is not parsed when bidirectional communication and PDL switching are disabled.

6. @@@@2. 3. @@Click SMTP Server. @@@@4.

5. 6. 7. Select the address type. Options include IPv4, IPv6, or Host Name. Type the appropriately formatted address and port number. The default port number is 25. @@@@3. @@Clients that make HTTP requests are called User Agents (UAs). @@@2.

3. 4. 5. 6. 7. 8. At the control panel, touch Printer. Touch the Tools tab, then touch Setup.



[You're reading an excerpt. Click here to read official XEROX PHASER 7800 user guide](http://yourpdfguides.com/dref/4277645)  
<http://yourpdfguides.com/dref/4277645>



Touch Network & USB. Touch Ethernet.

Touch Other Protocols & Services. Select HTTP. 1. 2. 3. 4.

5. Click HTTP. Under Configuration, select Enabled to enable the protocol. Change the HTTP Port Number if needed. The default is 80. The default time is 15 seconds. 6. When SSL is enabled, all Web pages contain https:// in the URL. a. b. c. If necessary, change the Secure HTTP Port Number. The default is 443. Click Default All to reset settings to default values. 7.

8. Click Proxy Server. Under HTTP Proxy Server, select Enabled. Select the Proxy Server address type. Options are IPv4 Address, IPv6 Address, or Host Name.

Type the appropriately formatted address and port number. The default port number is 8080. Phaser 7800 Color Printer System Administrator Guide 37 Network Configuration NTP The Network Time Protocol (NTP) synchronizes the internal clocks of computers over a network connection at system startup and every subsequent 24-hour period thereafter. 1. 2.

Click NTP. 3. Under Network Time Protocol, select Enabled to enable the protocol. 4. Select the address type.

Options are IPv4 Address or Host Name. 5. Type the appropriately formatted address and port numbers for IP Address: Port and Alternate IP Address: Port.

The default port number is 123. 6. Note: Restart your printer for the new settings to take effect. 38 Phaser 7800 Color Printer System Administrator Guide Network Configuration WSD Web Services for Devices (WSD) is technology from Microsoft that provides a standard method for discovering and using network connected devices. It is supported in Windows Vista and Windows Server 2008 operating systems. WSD is one of several supported communication protocols. WSD services include a group of Web services that allow devices to discover the printer and print and transfer files remotely.

You can enable the following WSD services: WS-Discovery: Enable this service on the printer to allow other devices on an unmanaged network with limited directory resources to discover it. WS-Discovery Multicast: Enable this service to allow the printer to enable Multicast protocol response and announcement through WS-Discovery. Multicast Discovery communicates the service URLs provided by the printer to client computers on the network. The multicast address used is 239.255.255.250 on IPv4 networks and FF02::C on IPv6 networks. WS-Print: Enable this service to allow the printer to announce print services through WS-Discovery. WS-Transfer: This service is automatically enabled when you enable WS-Discovery. WS-Transfer defines how to invoke a simple set of familiar verbs, such as Get, Post, Put, and Delete, using SOAP.

Enabling WSD 1. 2. 3. In CentreWare Internet Services, click Properties > Services. Click WSD.

Under WSD Services, select Enabled. Enabling WSD Services 1. 2. 3. 4.

5. 6. In CentreWare Internet Services, click Properties > Services. Click WSD (Web Services on Device). Under WSD Services, select Enabled. Select the check box next to the services that you want to enable. If necessary, type an alternate port number for each service to use. Click Apply. Phaser 7800 Color Printer System Administrator Guide 39 Security 4 This chapter includes: Setting Web Page Access Rights ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 42 Secure HTTP (SSL)....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....  
.....

.....  
.....  
.....  
.....

.....  
.. 43 FIPS 140-2 ...

.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.. 44 Stored Data Encryption .....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

..... 46 IP Filtering ...

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....

.. 47 IPsec ...

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....  
.....

.... 49 Security Certificates .

.....  
.....  
.....

.....  
.....  
.....

.....  
.....

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
*. 54 802.1X .....*

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

*58 Overwriting Image Data .....*

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

*... 60 PostScript Passwords ..*  
.....

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

... 1. In CentreWare Internet Services, click Properties > Security.  
2. Click Access Rights > Web Page Access. 3. 4. 5.

For any pages that you want to lock, under State, select Locked. 6. 7. Click Apply. 8. Before you begin: Ensure DNS is enabled and configured. Ensure that the date and time configured on the printer is correct. 2. 3. Click HTTP.

Under Secure HTTP (SSL), select Enabled. If FIPS 140-2 encryption is required, all computers, servers, browser software, security certificates, and applications must comply with the standard or operate in FIPS-compliant mode. To allow the printer to use non-FIPS compliant protocols or features when FIPS 140 mode is enabled, acknowledge the notification of non-compliance during the validation process. Note: Enabling FIPS 140 Mode can prevent the printer from communicating with network devices that communicate using protocols that do not use FIPS-compliant encryption algorithms. When non-FIPS compliant protocols, such as SNMPv3 or NetWare, are enabled after FIPS mode is enabled, a message appears indicating the protocols use non-FIPS compliant encryption algorithms. When you enable FIPS-140 mode, the printer validates the current configuration by performing the following checks:

Validates certificates for features where the printer is the server in the client-server relationship. An SSL certificate for HTTPS is an example. Validates certificates for features where the printer is the client in the client-server relationship. CA certificates for LDAP, Xerox Extensible Interface Platform (EIP), and Smart eSolutions are examples. Validates certificates that are installed on the printer, but not used.

Certificates for HTTPS, LDAP, or SNMPv3 are examples. Checks features and protocols for non-compliant encryption algorithms. For example, NetWare and SNMPv3 use encryption algorithms that are not FIPS-compliant. When validation is complete, information and links appear in a table at the bottom of the page. Click the appropriate link to disable a non-compliant feature, or protocol.

Click the appropriate link to replace any non-compliant certificates. Click the appropriate link to acknowledge that you allow the printer to use non-compliant features and protocols. 44 Phaser 7800 Color Printer System Administrator Guide Security Enabling FIPS 140 Mode and Checking for Compliance 1. 2. 3.

4. In CentreWare Internet Services, click Properties > Security > Encryption. Click FIPS 140-2. Click Enable. Click Run Configuration Check and Apply. A pass or fail message appears: If the configuration check passes, click Reboot Machine to save and restart the printer. If the configuration check fails, the reasons for the failed test list in a table at the bottom of the page. For each reason, a link is provided. Click the appropriate link to disable the protocol, replace the certificate, or allow the printer to use the non-compliant protocol. Note: When FIPS 140 Mode is enabled, only FIPS-compliant certificates can be installed on the printer.

Phaser 7800 Color Printer System Administrator Guide 45 Security Stored Data Encryption You can encrypt user data on the printer hard drive to prevent unauthorized access to data stored on the drive. Enabling Encryption of Stored Data 1. 2. 3. 4. In CentreWare Internet Services, click Properties > Security > Encryption. Click User Data Encryption. Under User Data Encryption Enablement select Enabled. CAUTION: The printer restarts. This interrupts or deletes current jobs.

Xerox® recommends that you back up jobs and folders before enabling User Data Encryption.



[You're reading an excerpt. Click here to read official XEROX](#)

[PHASER 7800 user guide](#)

<http://yourpdfguides.com/dref/4277645>

46 Phaser 7800 Color Printer System Administrator Guide Security IP Filtering You can prevent unauthorized network access by creating an IP Filter to block or allow data sent from particular IP addresses. Creating an IP Filter Rule In CentreWare Internet Services, click Properties > Security. Click IP Filtering. Click Add.

From the Protocol menu, select the protocol. Options include All, TCP, UDP, or ICMP. From the Action menu, select how you want the filter to manage the incoming packet. If you want the printer to reject the packet and send an ICMP message back to the source host, select Reject. If you want the printer to ignore the packet, select Drop.

6. To specify the order that actions are performed, select either End of List or Beginning of List from the Move This Rule To menu. Actions are performed in the order defined in the rule list. To arrange rule execution order, go to the IP Filtering page. 7. Type the Source IP Address. 8. Type a number between 032 for the Source IP Mask that uses this rule. The range of 032 corresponds to the 32-bit binary number comprising IP addresses. For example: The number 8, represents a Class A address with a mask of 255.

0.0.0. The number 16 represents a Class B address with a mask of 255.255.0.0. The number 24 represents a Class C address with a mask of 255.255.255. 0. 9. If TCP or UDP is the selected Protocol type: a. Type the Source Port if applicable. The Source Port is the originating port that the rule has been created to manage.

If the incoming packet does not originate from this port, the rule is ignored. b. Type the Destination Port that the rule has been created to manage. If the incoming packet is not sent to this port, the rule is ignored. 10.

If ICMP is the selected Protocol type, select which ICMP Message type the rule is meant to manage. 11. Click Apply to save the new settings or Cancel to return to the previous screen. 12. Restart your printer for the new settings to take effect. 1. 2. 3. 4. 5.

Editing an IP Filter Rule 1. 2. 3. 4. 5. In CentreWare Internet Services, click Properties > Security. Click IP Filtering. Click an IP filter rule. Click Edit and edit the rule. Click Apply.

Phaser 7800 Color Printer System Administrator Guide 47 Security Deleting an IP Filter Rule 1. 2. 3. 4. 5.

In CentreWare Internet Services, click Properties > Security. Click IP Filtering. Click an IP filter rule. Click Delete. Click OK.

Arranging the Execution Order of IP Filter Rules 1. 2. 3. 4. In CentreWare Internet Services, click Properties > Security. Click IP Filtering. Click an IP filter rule. Under Move selected rule to position, select the position and click Move. 48 Phaser 7800 Color Printer System Administrator Guide Security IPsec Internet Protocol Security (IPsec) is a group of protocols used to secure Internet Protocol (IP) communications by authenticating and encrypting each IP data packet. It allows you to control IP communication by creating protocol groups, policies, and actions.

You can control IP communication on the printer for the following: DHCP v4/v6 (TCP and UDP) DNS (TCP and UDP) FTP (TCP) HTTP (TCP port 80) HTTPS (TCP port 443) HTTPS (Web Server, TCP port 443) ICMP v4/v6 IPP (TCP port 631) LPR Print (TCP port 515) Port 9100 Print (TCP port 9100) SMTP (TCP/UDP port 25) SNMP (TCP/UDP port 161) SNMP Traps (TCP/UDP port 162) WS-Discovery (UDP port 3702) Up to 10 additional services Enabling IPsec Before you begin: Ensure that Secure HTTP (SSL) is enabled. 1. In CentreWare Internet Services, click Properties > Security. 2. Click IPsec. 3. Under Enablement, select Enabled. 4. Managing Actions Use actions to more specifically manage how IPsec controls dependent protocols. Creating a New Action 1.

2. 3. 4. 5. Click Actions at the top of the IPsec page.

Click Add New Action. On the Step 1 of 2 page, under IP Action Details, type in the Name. This field is required. In the Description field, type a description for the action, if desired. Under Keying Method, select Manual Keying or Internet Key Exchange (IKE).

Note: Select Manual Keying if client devices are not configured for or do not support IKE. 6. If you selected IKE, under Pre-shared Key Passphrase, type the passphrase, then click Next. Phaser 7800 Color Printer System Administrator Guide 49 Security Configuring Manual Keying Settings Manual Keying is used when client systems either do not support IKE or are not configured for IKE. 1. Under IPsec Mode, select Transport Mode or Tunnel Mode. Note: Transport mode only encrypts the IP payload, whereas Tunnel mode encrypts the IP header and the IP payload. Tunnel mode provides protection for an entire IP packet by treating it as an Authentication Header (AH), or Encapsulating Security Payload (ESP). 2. 3.

4. 5. 6. If you selected Tunnel Mode, under Enable Security End Point Address, select the address type. Options are Disabled, IPv4 Address, or IPv6 Address. Under IPsec Security, select ESP, AH, or BOTH. In the Security Parameter Index: IN field, type a 32-bit number larger than 256 that identifies the inbound Security Association (SA). In the Security Parameter Index: OUT field, type a 32-bit number larger than 256 that identifies the outbound Security Association (SA). Under Hash, select from the following: SHA1 None Under Enter Keys as, select ASCII format or Hexadecimal number. Type a 20-character ASCII key, or 40-character Hexadecimal key for the following: Hash Key: IN Hash Key: OUT If you selected ESP or BOTH for the IPsec Security type, select one or more of the following Encryption types: Note: If the IPsec Security type is set to AH, the Encryption type options do not appear.

AES 3DES None 10. Type a 24-character ASCII key, or 48-character Hexadecimal key for the following: Encryption Key: IN Encryption Key: OUT 11. Click Save to apply the new settings or Undo to retain the previous settings. 7. 8.

9. 50 Phaser 7800 Color Printer System Administrator Guide Security Configuring Internet Key Exchange Settings IKE is a keying protocol that allows automatic negotiation and authentication, anti-replay services, and CA support. It can also change encryption keys during an IPsec session. IKE is used as part of virtual private networking. IKE Phase 1 authenticates the IPsec peers and sets up a secure channel between the peers to enable IKE exchanges. IKE Phase 2 negotiates IPsec SAs to set up the IPsec tunnel. 1. Under IKE Phase 1, in the Key Lifetime field, type the length of time until the key expires in Seconds, Minutes, or Hours. When a key reaches this lifetime, the SA is renegotiated and the key is regenerated or refreshed. 2. Select the DH Group from the following options: Group 2 provides a 1024-bit Modular Exponential (MODP) keying strength. Group 14 provides a 2048-bit MODP keying strength. 3. Under IKE Phase 2, select the IPsec Mode. Options are Transport Mode or Tunnel Mode.

Note: Transport mode only encrypts the IP payload, whereas Tunnel mode encrypts the IP header and the IP payload. Tunnel mode provides protection for an entire IP packet by treating it as an Authentication Header (AH), or Encapsulating Security Payload (ESP).



[You're reading an excerpt. Click here to read official XEROX](http://yourpdfguides.com/dref/4277645)

[PHASER 7800 user guide](http://yourpdfguides.com/dref/4277645)

<http://yourpdfguides.com/dref/4277645>

4. 5. 6. 7. If you selected Tunnel Mode, under Enable Security End Point Address, select the address type. Options are Disabled, IPv4 Address, or IPv6 Address. Under IPsec Security, select ESP, AH, or BOTH. Type the Key Lifetime, and select Seconds, Minutes, or Hours. Under Perfect Forward Secrecy (PFS), select None, Group 2, or Group 14. Note: PFS is disabled by default. PFS allows faster IPsec setup, but is less secure. 8. Under Hash, select from the following: SHA1 None If you selected ESP or BOTH for the IPsec Security type, select one or more of the following Encryption types: Note: If the IPsec Security type is set to AH, the Encryption type options do not appear. AES 3DES Null 10. Click Save to apply the new settings or Undo to retain the previous settings. 9. Editing or Deleting an Action To edit or delete an action, select the action from the list, then click Edit or Delete. Phaser 7800 Color Printer System Administrator Guide 51 Security Managing Protocol Groups Protocol Groups are logical groupings of selected protocols based on service type, service name, port number, and device type. Create a Protocol Group to apply specific security policies for selected protocols. Creating a New Protocol Group 1. 2. 3. 4. 5. 6. 7. 8. 9.

Click Protocol Groups at the top of the IPsec page. Click Add New Protocol Group. Type a Name and a Description for the group. Under Service Name, select the protocols that you want to add to the group. To control a service that is not listed, under Custom Protocols type a name for the service and select the check box under Service Name. To control a service that is not listed, under Custom Protocols type a name for the service and select the check box under Service Name. Select TCP or UDP from the Protocol list. Type the port number, and specify if the printer is the server or client. Click Save to apply the new settings or Undo to retain the previous settings. Click Cancel to return to the previous page.

Editing or Deleting a Protocol Group To edit or delete a protocol group, select the protocol group from the list, and click Edit or Delete. Managing Host Groups Host groups are groupings of computers, servers, or other devices that you want to control using security policies. Creating a New Host Group 1. 2.

3.

4. 5. 6. 7. 8.

9. Click Host Groups at the top of the IPsec page. Click Add New Host Group. Type a Name and a Description for the group. Under Address List, select IPv4 or IPv6. Select an Address Type. Options are Specific, All, or Subnet. Type the appropriately formatted IP address. To continue to add addresses to the group, click Add. To delete addresses, next to any address, click Delete.

Click Save to apply the new settings or Undo to retain the previous settings. 52 Phaser 7800 Color Printer System Administrator Guide Security Editing or Deleting a Host Group To edit or delete a host group, select the host group from the list, and click Edit or Delete. Managing Security Policies IPsec security policies are sets of conditions, configuration options, and security settings that enable two systems to agree on how to secure traffic between them. You can have multiple policies active at the same time, however, the scope and policy list order determines the overall policy behavior. Defining a Security Policy 1. 2. 3. 4. 5. Click Security Policies at the top of the IPsec page.

Under Define Policy, select a Host Group from the menu. Select a Protocol Group from the menu. Select an Action from the menu. Click Add Policy. Prioritizing a Security Policy To prioritize policies, under Saved Policies, select the policy you want to move, then click the Promote or Demote buttons.

Editing or Deleting a Security Policy To delete a policy, under Saved Policies, select the policy and click Delete. Phaser 7800 Color Printer System Administrator Guide 53 Security Security Certificates A digital certificate is a file that contains data used to verify the identity of the client or server in a network transaction. A certificate also contains a public key used to create and verify digital signatures. One device proves its identity to another by presenting a certificate trusted by the other device. Or, the device can present a certificate signed by a trusted third party and a digital signature proving its ownership of the certificate.

A digital certificate includes the following data: Information about the owner of the certificate The certificate serial number and expiration date The name and digital signature of the Certificate Authority (CA) that issued the certificate A public key A purpose defining how the certificate and public key can be used There are three types of certificates: Device Certificate: A certificate for which the printer has a private key, and the purpose specified in the certificate allows it to be used to prove identity. CA Certificate: A certificate with authority to sign other certificates. Trusted Certificate: A self-signed certificate from another device that you want to trust. To ensure that the printer can communicate with other devices over a secure trusted connection, both devices must have certain certificates installed. For protocols such as HTTPS, the printer is the server, and must prove its identity to the client Web browser. For protocols such as 802.IX, the printer is the client, and must prove its identity to the authentication server, typically a RADIUS server. For features that use these protocols, perform the following two tasks: Install a device certificate on the printer. Note: When you enable HTTPS, a Xerox® Device Certificate is automatically created and installed on the printer. Install a copy of the CA certificate that was used to sign the device certificate of the printer on the other device.

Protocols such as LDAP and IPsec require both devices to prove their identity to each other. For features that use these protocols, perform the tasks listed under one of the following options: Option 1 Install a device certificate on the printer. Install a copy of the CA certificate that was used to sign the device certificate of the printer on the other device. Install a copy of the CA certificate that was used to sign the certificate of the other device on the printer. 54 Phaser 7800 Color Printer System Administrator Guide Security Option 2 If the other device is using a self-signed certificate, install a copy of the trusted certificate of the other device on the printer. Installing a Digital Certificate There are three ways to install a certificate on the printer: Create and install a Xerox® Device Certificate. Create a Xerox® Device Certificate to allow the printer to generate a certificate, sign it, and create a public key used in SSL encryption. Install the Xerox® Device Certificate on the printer, and install the Generic Xerox® Trusted CA Certificate in the devices that the printer communicates with. Examples of other devices are client Web browsers for HTTPS, or RADIUS authentication server for 802.



[You're reading an excerpt. Click here to read official XEROX](http://yourpdfguides.com/dref/4277645)

[PHASER 7800 user guide](http://yourpdfguides.com/dref/4277645)

<http://yourpdfguides.com/dref/4277645>