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4 **Extensible Interface Platform**

5 *EIP Enablement Instructions 1.2*

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This document provides the device enablement instructions for the Extensible Interface Platform (EIP).



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21 1 Introduction

22 1.1 Document Purpose

23 This document provides the Xerox Device Enablement Instructions for the Extensible Interface
24 Platform (EIP).

25 1.2 Overview

26 The Extensible Interface Platform (EIP) is a set of extensibility interfaces that are supported on
27 certain Xerox Office device platforms. This document gives detailed instructions on how to
28 enable this feature on the compatible Xerox Office devices.

29 1.3 Acronyms

- 30 SSL Secure Sockets Layer
- 31 DLM Dynamically Loaded Module

32 1.4 Related Documents

33 References:

Title	EIP User's and Programmer's Guide
Document location	Within this EIP SDK distribution
Description	Provides user's perspective and provides programming guidelines for partners developing applications using the EIP APIs

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2 Instructions

2.1 Instructions for enabling EIP on WorkCentre 7655 Family

1. Load “installCustomServices.dlm” if not already installed. Check configuration report under **Installed Options** for “Custom Services”, if present, dlm has been installed. The DLM is located in the Presentation Services SDK. It also is available for download from www.support.xerox.com under WorkCentre 7655/7665/7675 “Drivers and Downloads”.
 - a. Navigate to **Properties** on the Device Web UI.
 - b. Expand **General Setup** in the tree menu
 - c. Expand **Machine Software** on the tree menu
 - d. Select “Manual upgrade”.
 - e. Use the browse button to find the “installCustomServices.dlm and click “Install Software”.

The screenshot shows the 'Internet Services' web interface for a Xerox WorkCentre 7655. The 'Properties' tab is selected, and the 'Machine Software' section is expanded. The 'Manual Upgrade' section is active, showing a file input field with a 'Browse...' button and an 'Install Software' button. A note below the button states: 'Note: Software Installation will begin several minutes after the software file has been submitted to the machine. Once Installation has begun all Internet Services from this machine will be lost, including this Web User Interface. The installation progress can be monitored from the Local UI.' A 'Restore Default Values' button is located at the bottom of the section.

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2. Enable SSL (not required for all EIP services but still recommended).
 - a. Navigate to **Properties** on device WebUI.
 - b. Expand **General Setup** in tree menu.
 - c. Select “Extensible Service Setup”
 - d. Select Settings for HTTP (SSL)
 1. Create or upload digital certificate by selecting “Configure Digital Certificate” link.
 2. Click radio button to enable SSL transport. Port can be changed as desired but all sample code in SDK uses port 443 for SSL.

The screenshot shows the 'Internet Services' configuration page for a Xerox WorkCentre 7655. The 'Properties' tab is active, and the 'Extensible Service Setup' section is expanded to show 'HTTP' settings. Under 'HTTP', the 'Web Services' sub-tab is selected. The 'Configuration' section shows 'Connection' set to 'Enabled' with a port number of 80. The 'Secure HTTP (SSL)' section is also set to 'Enabled' with a port number of 443 and a 'Keep Alive Timeout' of 10 seconds. A 'Note' box at the bottom explains that secure HTTP enablement requires a Machine Digital Certificate and lists features that will use these settings, such as Web UI Page Display, Audit Log, and Internet Printing Protocol.

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3. Enable Web services required, at minimum enable the Extensible Service Registration web service.
 - a. Navigate to **Properties** on Device web UI
 - b. Expand **General Setup**
 - c. Select “Extensible Service Setup”.Note: If this is still selected from step 2 above, the page may need to be refreshed in order to get back to the settings page.

The screenshot shows the 'Internet Services' web interface for a Xerox WorkCentre 7655. The page title is 'Internet Services' and the device name is 'XEROX WorkCentre 7655'. The user is logged in as 'admin'. The navigation menu includes 'Status', 'Jobs', 'Print', 'Scan', 'Properties', and 'Support'. The 'Properties' section is expanded, showing a tree view with 'Extensible Service Setup' selected. The main content area is titled 'Extensible Service Setup' and contains two sections: 'Setup (Required)' and 'Enable Extensible Services'. In the 'Setup (Required)' section, 'HTTP (SSL)' and 'Extensible Service Registration' are both marked as 'Configured' with green checkmarks and have 'Settings...' buttons. In the 'Enable Extensible Services' section, there are two checkboxes: 'Verify server certificates' (unchecked) and 'Export password to Extensible Services' (checked). At the bottom of the configuration area are 'Undo' and 'Apply' buttons. The Xerox logo and copyright information are visible at the bottom of the page.

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- d. Select Settings for “Extensible Service Registration”.
 - 1. Enable at minimum the Extensible Service Registration.
 - 2. To enable the equivalent of “Custom Services” on the WorkCentre Pro 240/255 Family, enable the following:
 - o Extensible Service Registration
 - o Scan Template Management
 - o Session Data
 - o Scan Extension
 - o Device Configuration

The screenshot shows the 'Internet Services' configuration page for a Xerox WorkCentre 7655. The 'Properties' tab is selected, and the 'Extensible Service Setup' section is active. Under the 'HTTP' sub-tab, there are 'Enable All' and 'Disable All' buttons. A table lists several services, all of which are checked and marked as 'Enabled'.

Enable	Name	Status
<input checked="" type="checkbox"/>	Extensible Service Registration	Enabled
<input checked="" type="checkbox"/>	Scan Template Management	Enabled
<input checked="" type="checkbox"/>	Xerox Secure Access	Enabled
<input checked="" type="checkbox"/>	Session Data	Enabled
<input checked="" type="checkbox"/>	Scan Extension	Enabled
<input checked="" type="checkbox"/>	Device Configuration	Enabled
<input checked="" type="checkbox"/>	Authentication & Authorization Configuration	Enabled

At the bottom of the table are 'Close', 'Undo', and 'Save' buttons. The Xerox logo and copyright information are visible at the very bottom of the page.

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2.2 Instructions for enabling EIP on WorkCentre 5632 Family

- 80 1. Load “installCustomServices.dlm” if not already installed. Check configuration report
81 under **Installed Options** for “Custom Services”, if present, dlm has been installed. The
82 DLM is located in the Presentation Services SDK. It also is available for download from
83 www.support.xerox.com under WorkCentre 5632/5638 “Drivers and Downloads”.
- 84 a. Navigate to **Properties** on the Device Web UI.
 - 85 b. Expand **General Setup** in the tree menu
 - 86 c. Expand **Machine Software** on the tree menu
 - 87 d. Select “Manual Upgrade”.
 - 88 e. Use the browse button to find the “installCustomServices.dlm and click “Install
89 Software”.

The screenshot shows the 'Internet Services' web interface for a 'XEROX WorkCentre 5632'. The top navigation bar includes 'Status', 'Jobs', 'Print', 'Scan', 'Properties', and 'Support'. The left sidebar contains a tree menu with categories like 'General Setup', 'Alert Notification', 'Smart eSolutions', 'Machine Software', 'Connectivity', 'Services', 'Accounting', and 'Security'. The 'Machine Software' section is expanded, showing 'Manual Upgrade' selected. The main content area displays 'Machine Software' details, including 'Last Successful Upgrade' (Version: 21.102.1.0), 'Auto Upgrade' settings (Schedule Upgrade: Disabled, Refresh Start Time: Daily - 12:00 AM, File Server IP Address: 0.0.0.0), and a 'Manual Upgrade' section with a 'Browse...' button and an 'Install Software' button. A note at the bottom states: 'Note: Software Installation will begin several minutes after the software file has been submitted to the machine. Once Installation has begun all Internet Services from this machine will be lost, including this Web User Interface. The installation progress can be monitored from the Local UI.' A 'Restore Default Values' button is also present.

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- 91
- 92 2. Enable SSL.
- 93 a. Navigate to **Properties** on device WebUI.
- 94 b. Expand **Connectivity**
- 95 c. Expand **Protocols**
- 96 d. Select “HTTP”.
- 97 1. Create or upload digital certificate by selecting “Configure Digital
- 98 Certificate” link.
- 99 2. Click radio button to enable SSL transport. Port can be changed as desired
- 100 but all sample code in SDK assumes port 443 for SSL.

The screenshot shows the 'Internet Services' configuration page for a Xerox WorkCentre 5632. The 'Properties' tab is active, and the 'HTTP' section is expanded in the left-hand navigation menu. The main content area displays the 'HTTP Configuration' settings:

- Connection:** Enabled (Port Number: 80)
- Physical Connection:** Ethernet
- Maximum Connections:** 32
- Secure HTTP (SSL):** Enabled (Port Number: 443)
- Keep Alive Timeout:** 10 seconds (1-60)

Buttons for 'Default All', 'Undo', and 'Apply' are visible below the configuration fields. A yellow 'Note' box contains the following text:

Secure HTTP enablement requires a Machine Digital Certificate. [Configure Machine Digital Certificate](#)
 HTTP traffic will be routed to the secure port when using HTTP with SSL.

These settings will be used for the following features:

- Web UI Page Display
- Configuration via Web UI Page including Audit Log, IPSec, SNMP
- Print Submit via the Web UI
- Web Services
- Network Accounting Database Access
- Printing via Internet Printing Protocol

The XEROX logo and copyright information (© 1997-2007 XEROX CORPORATION) are visible at the bottom of the page.



- 102
- 103 3. Enable Custom Services
- 104 a. Navigate to **Properties** on device WebUI.
- 105 b. Expand **Services**
- 106 c. Expand **Custom Services**
- 107 d. Select “Custom Services”
- 108 e. Select Enabled and click “Apply”.

The screenshot shows the 'Internet Services' configuration page for a Xerox WorkCentre 5632. The page has a dark blue header with the Xerox logo and navigation links like 'admin - Logout | Home | Index | Site Map | Help...'. Below the header is a navigation bar with tabs for 'Status', 'Jobs', 'Print', 'Scan', 'Properties', and 'Support'. The 'Properties' tab is active, and a left-hand sidebar shows a tree view of configuration categories, with 'Custom Services' selected. The main content area is titled 'Custom Services' and contains three sections: 'Setup', 'Enablement', and 'Optional Information'. The 'Setup' section has a table with one row: '1. Enable SSL (Secure Socket Layer)' with a status of 'Completed'. The 'Enablement' section has radio buttons for 'Enabled' (selected) and 'Disabled'. The 'Optional Information' section has checkboxes for 'Automatically validate signed certificates from server' (unchecked) and 'Export password to user application' (checked). At the bottom of the configuration area are 'Apply' and 'Undo' buttons. A yellow note box at the bottom states: 'Note: The Login Credentials refer to the User Name and Password entered at the device local user interface'.

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2.3 Instructions for enabling EIP on WorkCentre Pro 245 Family

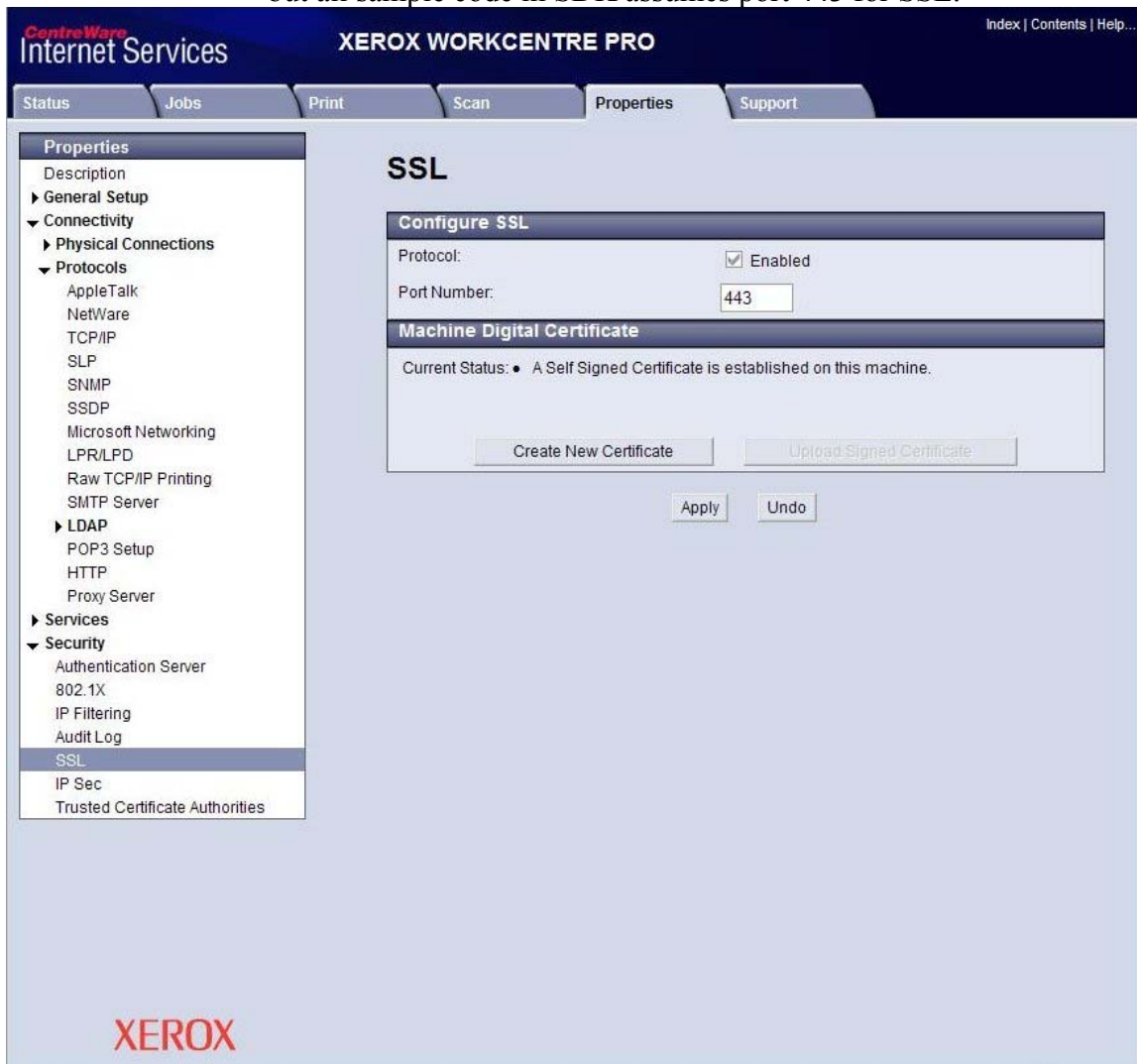
- 111 1. Load “installCustomServices.dlm” if not already installed. Check configuration report
- 112 under **Installed Options** for “Custom Services”, if present, dlm has been installed. The
- 113 DLM is located in the Presentation Services SDK. It also is available for download from
- 114 www.support.xerox.com under WorkCentre 245/255 “Drivers and Downloads”.
- 115
 - a. Navigate to **Properties** on the Device Web UI.
 - 116 b. Expand **Services** in the tree menu
 - 117 c. Expand **Machine Software** on the tree menu
 - 118 d. Select “Manual Upgrade”.
 - 119 e. Use the browse button to find the “installCustomServices.dlm and click “Install
 - 120 Software”.



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- 122
- 123 2. Enable SSL.
- 124 a. Navigate to **Properties** on device WebUI.
- 125 b. Expand **Security**
- 126 c. Select “SSL”.
- 127 1. Create or upload digital certificate by selecting “Create New Certificate”.
- 128 2. Click check box to enable SSL transport. Port can be changed as desired
- 129 but all sample code in SDK assumes port 443 for SSL.



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- 131
- 132 3. Enable Custom Services
- 133 a. Navigate to **Properties** on device WebUI.
- 134 b. Expand **Services**
- 135 c. Expand **Custom Services**
- 136 d. Select “Custom Services”
- 137 e. Select Enabled and click “Apply”.

The screenshot shows the 'XEROX WORKCENTRE PRO' web interface. The top navigation bar includes 'Status', 'Jobs', 'Print', 'Scan', 'Properties', and 'Support'. The 'Properties' section is expanded to show 'Custom Services'. The 'Custom Services' configuration page includes:

- Setup**: A table with columns 'Steps' and 'Status'. The first step is '1. Enable SSL (Secure Socket Layer)' with a status of 'Completed' (indicated by a green checkmark).
- Enablement**: Radio buttons for 'Enabled' (selected) and 'Disabled'.
- Optional Information**: Checkboxes for 'Automatically validate signed certificates from server' (unchecked) and 'Automatically apply Login Credentials to authenticate users to server' (checked).
- Buttons**: 'Apply' and 'Undo' buttons.
- Note**: A yellow box containing the text: 'Note: The Login Credentials refer to the User Name and Password entered at the device local user interface'.

The XEROX logo is visible in the bottom left corner of the interface.

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2.4 Instructions for enabling EIP on WorkCentre 73xx, 72xx and 52xx Families

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1. Check configuration report under System Settings for “Controller+PS ROM” Software Version. EIP Requires Controller Software Version 1.221.201 or higher. Contact Xerox Support if a software upgrade is required.
2. Enable SSL.
 - a. Navigate to the **Properties** tab on the device WebUI.
 - b. Expand **Security**
 - c. Select “Machine Digital Certificate Management” to create or upload a digital certificate.



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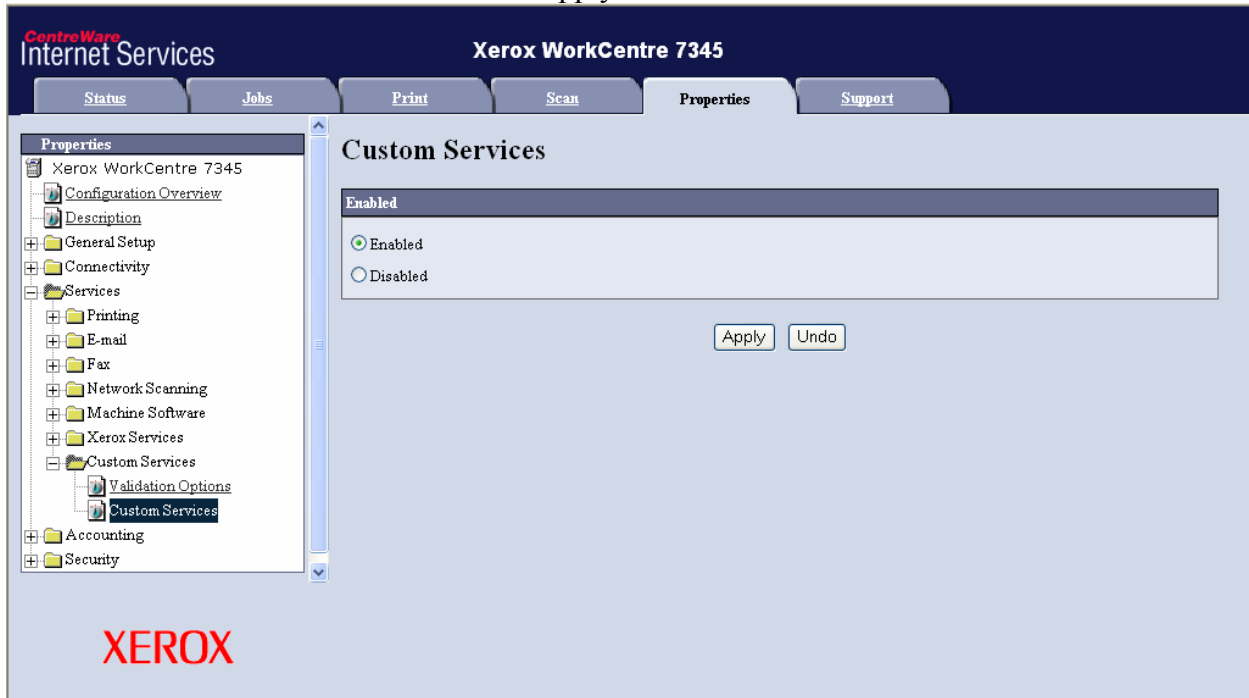
- d. Select “SSL / TLS Settings”.
 - 1. Click check box to enable HTTP – SSL / TLS communication.
 - 2. Port number can be changed as desired but all sample code in SDK assumes port 443 for SSL.



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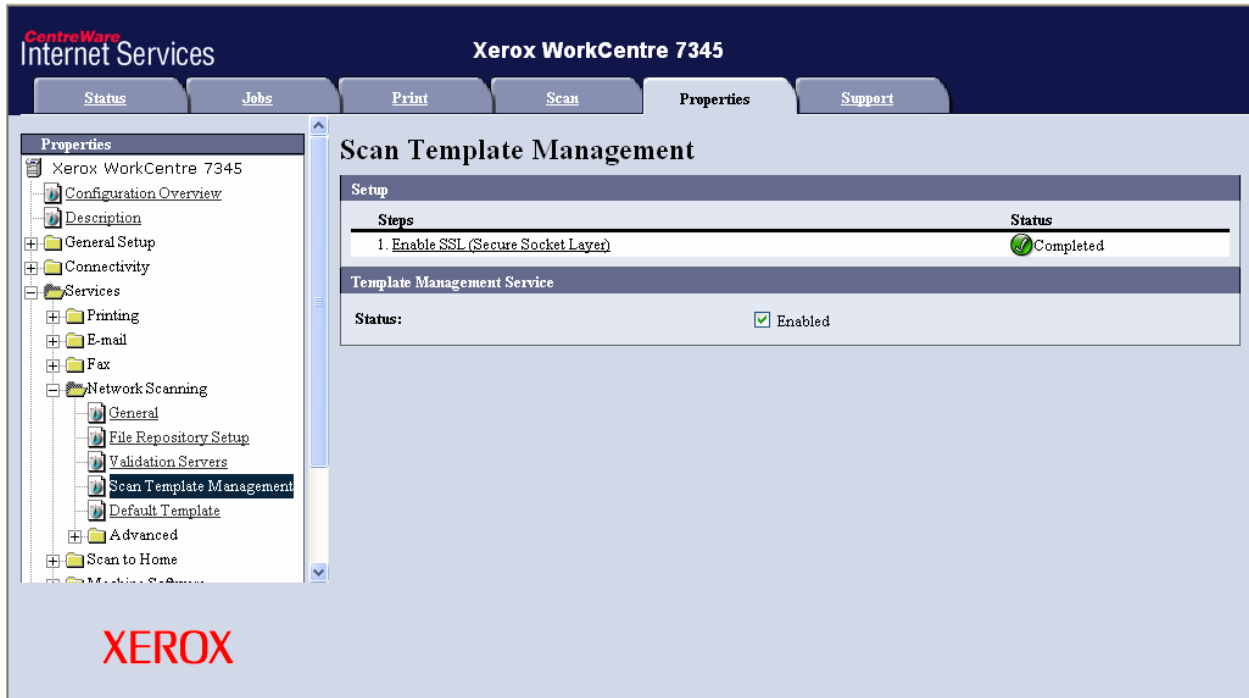
- 156 3. Enable Custom Services.
- 157 a. Navigate to the **Properties** tab on the device WebUI.
- 158 b. Expand **Services**
- 159 c. Expand **Custom Services**
- 160 d. Select “Custom Services”
- 161 e. Select Enabled and click “Apply”.



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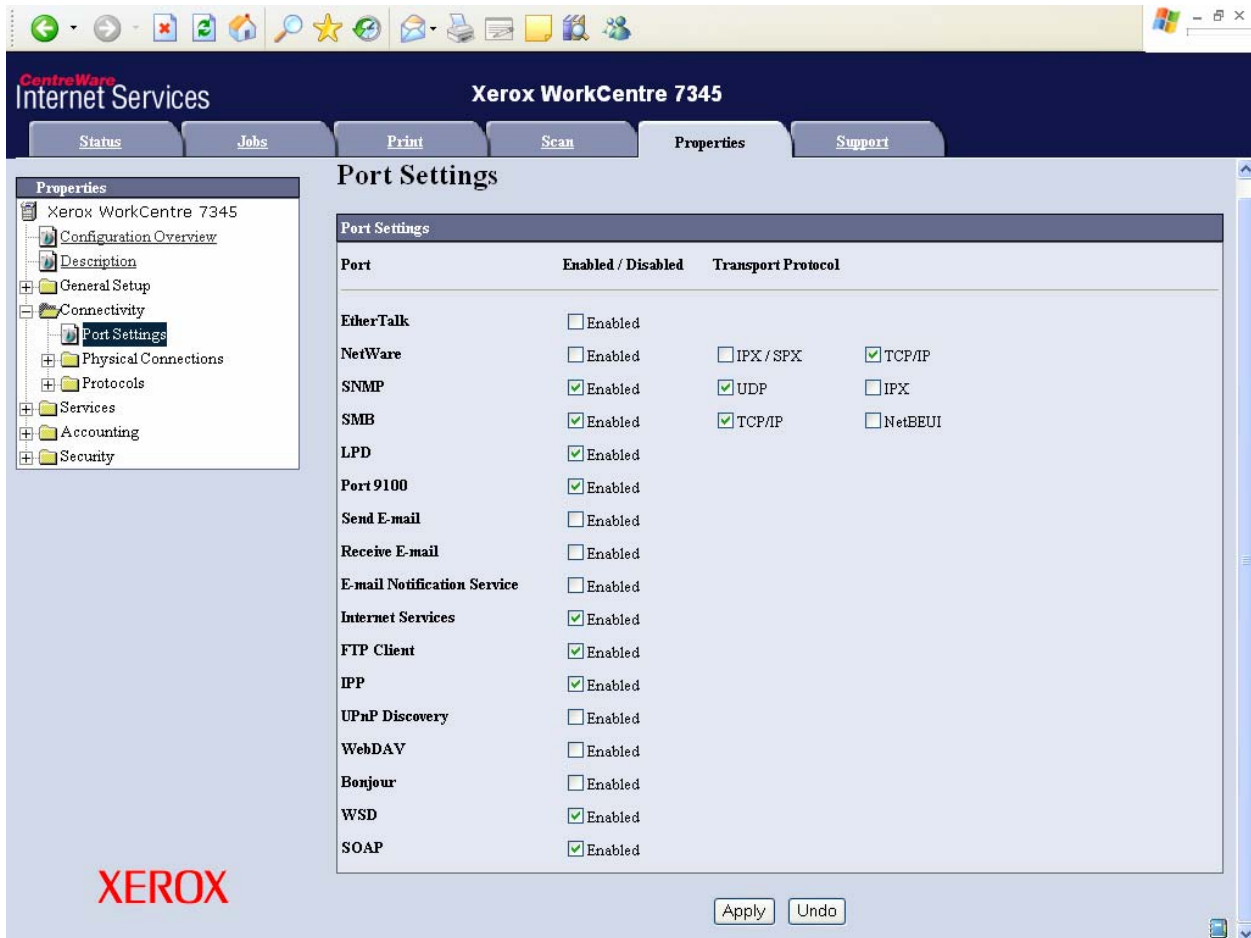
- 163 4. Enable Scan Template Management.
- 164 a. Navigate to the **Properties** tab on the device WebUI.
- 165 b. Expand **Services**
- 166 c. Expand **Network Scanning**
- 167 d. Select “Scan Template Management”
- 168 e. Select Enabled.



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- 170 5. Enable FTP Client for Scan Template Management (if necessary).
- 171 a. Navigate to the **Properties** tab on the device WebUI.
- 172 b. Expand **Connectivity**
- 173 c. Select “Port Settings”
- 174 d. Click Check Box to enable FTP Client.
- 175 e. Click Check Box to enable SMB.
- 176 f. Click Check Box to enable SOAP and click “Apply”.
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179 Appendices

180 **2.5 Document History**

181 **Document Contributors**

Prepared by: Ronald E. Dukes
Contributors:
Version 1.2
Date April 21, 2008
Status EIP SDK 2.1.2

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183 **Document Revision**

Version	Date	Description	Author
1.1	Oct 16, 2007	Original version reformatted. Instructions for WorkCentre 73xx Family added.	R. Dukes
1.2	April 15, 2008	Update to include 52xx and 72xx Families	R. Dukes

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