



# xPrintServer<sup>®</sup> Office Edition Print Server User Guide

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#### **Revision History**

Date	Rev.	Comments
November 2012	A	Initial document for firmware release 3.0.0-16.
September 2013	В	Updated firmware information.
June 2015	С	Updated for AirPrint certified firmware release 5.0.0. This update includes Google Cloud Print capability, security functions, quick setup page, help link, geolocation, supply level information, and the ability to import/export user information.

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# 1: Introduction

The Lantronix® xPrintServer® Office Edition print server, which is compatible with Apple Inc.'s AirPrint<sup>™</sup> technology, provides wireless printing capabilities for iPad, iPhone®and other Apple devices with iOS®-enabled AirPrint applications for unlimited network printers and eight USB printers (USB hub not included). xPrintServer Office Edition print server also enables printing to USB printers from Mac® OS X® (Lion or later) operating system and Windows® (Windows 7 or later) operating system. Additionally, the xPrintServer Office Edition print server supports Google Cloud Print supported platforms such as Chrome OS<sup>™</sup> and Android<sup>™</sup> platforms. Simply plug the xPrintServer into your network (router or switch with wireless access point), then plug your USB printer(s) into the xPrintServer. Within seconds the xPrintServer auto-discovers your network and USB connected printers to enable printing from mobile phones and tablet devices.

**Note:** Apple Inc. AirPrint<sup>™</sup> technology enables you to wirelessly print photos, e-mail, Web pages, and documents from your iPad, iPhone, and iPod touch without the need to install a driver. A registered Google account is required to establish a Google Cloud Print connection.



Figure 1-1 xPrintServer Office Edition Print Server

## **Office, Home, and Network Editions**

The xPrintServer comes in Network, Home and Office Editions. This user guide documents the features and functionality of the xPrintServer Office Edition print server.

# **Key Features**

- No additional software is needed on the iOS device
- Simple configuration
- Supports up to 8 USB printers via USB hub and an unlimited number of network-attached printers.

**Note:** Up to 10 network-attached printers is recommended for optimal performance. Print jobs process one at a time regardless of the number of configured printers. The xPrintServer includes one USB port as a part of the unit; an additional USB hub for connecting additional USB printers is not included.

- Automatic printer discovery and configuration (for supported printers)
- Security features
- External LED status indicator
- Configuration via browser (HTTP)

### **Supported Devices**

The Lantronix xPrintServer print server supports all iOS AirPrint enabled and Google Cloud Print enabled Chrome OS and Android devices. Apple AirPrint technology is included in all newer generation Apple devices with iOS 4.2 and later. Google Cloud Print is included in all Chrome OS and Android devices with iOS 2.3.3 and later.

- iPad (all versions)
- iPhone (3GS or later)
- iPod Touch (3rd generation or later)
- All Chrome OS devices
- All Android devices.

**Note:** Chrome and Android devices require installation of a Google app with Google Cloud Print web printing service functionality

## **Supported Printers and Printer Protocols**

See <u>http://www.lantronix.com/xprintserver-supported-printers</u> for the latest list of all supported printers. This list is periodically updated with new printers.

# **Supported DHCP Configuration**

xPrintServer print server supports both DHCP and static IP address assignments.

### **Supported Browsers**

Lantronix supports the latest versions of Internet Explorer®, Mozilla® Suite, Mozilla® Firefox®, Safari®, and Chrome® web browsers.

### **Product Information**

You will need the **QR code** or the **serial number** of your xPrintServer device when setting up your xPrintServer user interface. The serial number can be found on the product information label adhered to your device. One of two types of product information labels are adhered to your xPrintServer device (see *Figure 1-2* or *Figure 1-3* below).



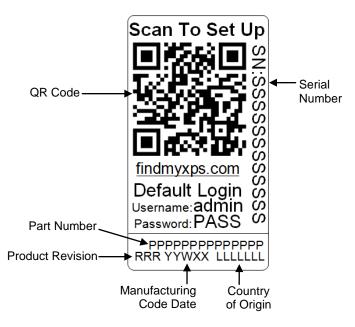


Figure 1-3 Sample Product Information Label (Type 2)

### **Serial Number**

A serial number is a unique, identifying number specific to each hardware device including an xPrintServer print server, printer or any Mac, PC, mobile phone or tablet.

00-80-A3-8E-00-63	or	00:80:A3:8E:00:63	or	0080A38E0063

### **IP Address**

Every device connected to an IP network must have a unique IP address. The xPrintServer device gets a unique IP address from the DHCP server on your network (default method) or can be manually configured with a static IP address.

# 2: Installation

This chapter describes how to install your xPrintServer print server. *Chapter 5: Google Cloud Print* provides instructions for establishing a connection, installation and printing related to Google Cloud Print.

# **Package Contents**

Your xPrintServer product package includes the following:

- One (1) xPrintServer print server
- One (1) Quick Start Guide
- One (1) RJ-45 Ethernet Cable (3 ft)
- One (1) Power Supply with Regional Adapters
- Mounting Bracket with Two (2) Screws
- Four (4) Rubber Feet

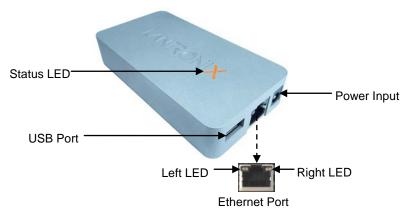
## **User-Supplied Items**

You also need the following items to install and operate your xPrintServer device:

- A working power outlet
- Internet connection (with outbound port 80; or ports 443 and 5222 if utilizing Google Cloud Print features)
- Network-attached printer (wired or wireless)
- USB Printer (if any)
- Your device (e.g., PC, tablet, or smartphone) with connection to the network via Wi-Fi
- A Google® email account (must be logged in to be able to setup and print through Google Cloud Print)

## **Hardware Components**

There is one USB port, one power input, one Ethernet port, and two types of LED indicators on the xPrintServer print server. The LEDs provide information about device activity and status.



#### Figure 2-1 xPrintServer LEDs

### Ethernet LEDs

There are two LEDs located on the upper left and right corners of the Ethernet socket (see *Figure 2-1*). These indicate the status of the connection.

#### Left LED

- Green ON, 100Mbps Ethernet Link
- Green Blinking, 100Mbps Activity
- Orange ON, 10Mbps Ethernet Link
- Orange Blinking, 10Mbps Activity
- OFF, No Ethernet Link

#### **Right LED**

Always OFF

The Ethernet port can connect to an Ethernet (10Mbps) or Fast Ethernet (100Mbps) network.

### Status LEDs

The Status LED on the xPrintServer device is incorporated into the "X" letter of the Lantronix logo on the top of the device. The behavior of this LED indicates the type of activity occurring in the xPrintServer device. The Status LED color is orange when lit, and unique display patterns indicate the specific type of activity. The LED may display a solid light, display no light, slowly glow on, slowly glow off, or flash on/off.

Orange "X" LED	Description	
Solid	A continuous solid light indicates the power is on or the device is boo	oting.
OFF	No light indicates the power is off.	
Blinking	Even blinking pattern indicates the device is printing.	
<b>Glow/Dim</b> (Repeating Pattern)	Pulsating pattern of glowing and dimming light cycle occurring once seconds. Indicates the device is booted, idle and waiting for a job.	every three
Code 1	A repeating pattern of a <b>single flash</b> followed by two seconds of no light indicates the device is obtaining the DHCP address.	Note: Codes 1 through 7
Code 2	A repeating pattern of <b>two flashes</b> followed by two seconds of no light indicates there are no configured printers.	indicate a grouped number of flashes in the
Code 3	A repeating pattern of <b>three flashes</b> followed by two seconds of no light indicates a factory default reset.	Orange "X" LED separated by a
Code 4	A repeating pattern of <b>four flashes</b> followed by two seconds of no light indicates a <i>successful</i> firmware update.	two second interval where the light is off.
Code 5	A repeating pattern of <b>five flashes</b> followed by two seconds of no light indicates a <i>failed</i> firmware update.	The specific code/number of flashes
Code 6	A repeating pattern of <b>six flashes</b> followed by two seconds of no light indicates a printing error.	separated by a two second no- light interval
Code 7	A repeating pattern of <b>seven flashes</b> followed by two seconds of no light indicates printer discovery is in process.	indicates a specific status as described in the
Code 8	A repeating pattern of <b>eight flashes</b> followed by two seconds of no light indicates USB device (printer or flash drive) discovery is in progress.	grey cells to the left.

# **Hardware Installation Steps**

With all xPrintServer package contents and the requisite user-supplied items listed above, you may begin installation.

- 1. Make sure of the following:
  - Your devices (smartphone, tablet or PC) are on the same Wi-FI® or wired network as your xPrintServer unit.
  - Printing from your Windows or Mac computer (from which the USB printer is directly attached) is working, before proceeding. If you are installing a new USB printer, this may require downloading and installing printer drivers to your desktop form the printer manufacturer.

- 2. Position the xPrintServer device. The xPrintServer print server can simply be placed as it is on a desk or other secure flat surface. Here are additional options:
  - To install the rubber feet on the xPrintServer device (for added grip and stability on a flat surface), peel to unveil the adhesive strip on each rubber foot and press one foot onto each of all four bottom corners of the xPrintServer device.
  - To secure the xPrintServer device into a server rack, utilize the included mounting bracket and screws. There are a variety of ways to mount the bracket and then the xPrintServer unit, including the two sample methods in *Figure 2-2*.

#### Figure 2-2 Sample xPrintServer Mounting Options



or



- 3. Connect the USB printer cable to the USB port of the xPrintServer print server (if any).
  - For USB printers: connect the USB printer cable to the USB port of the xPrintServer device, if any.
  - For network printers: connect all printers to the n etwork through a wired, wireless-to-router, switch or LAN connection.
- 4. Connect the network cable from the wireless router/switch to the xPrintServer device.
- 5. Power on the xPrintServer unit with the supplied power adapter. The xPrintServer device automatically sets-up all printers on your network and/or USB-connected printers. The glowing "X" blinks quickly for about 30 seconds, and then pulses slowly to show it's ready for printing.
- 6. Monitor the LEDs on the xPrintServer print server for activity and status information (see *Ethernet LEDs* and *Status LEDs*).



Figure 2-3 Quick Connect Diagram

# **Topology Support**

The xPrintServer print server is hardwired (via standard CAT-5) cabling to a router, switch or hub. The system requires an Access Point (A/P) which can also be hardwired and connected to the network. The connecting device (e.g., a tablet or smartphone) associates with the A/P and communicates to the xPrintServer device when a print job is ready to be processed. The xPrintServer unit communicates with network attached printer(s); the printers may either be wired or wirelessly connected to the network.

For the xPrintServer print server to auto-detect printers on bootup, the xPrintServer device and printers must be on the same subnet. After auto-detection has been completed, the xPrintServer device can then be relocated to a different subnet (Wi-Fi connected subnet that devices are connected to) assuming that subnet can route to the previous subnet.

The xPrintServer device uses Apple® Bonjour® or Zeroconf networking technology to advertise print services to the iOS device(s) and requires either one or both of the following:

- Both the connecting device and the xPrintServer print server are on the same subnet.
- The connecting device and xPrintServer devices are on different subnets but multicast traffic is communicated between the subnets.
- Multicast configuration and support can be found in the Lantronix knowledgebase. You may
  perform word searches, such as for "multicast", at <u>http://www.lantronix.com/resources/</u>.

# 3: Navigation and Printing

This chapter explains how to navigate and use your xPrintServer user interface including directions on how to login and log out, how to change your password, and most importantly, how to print from your PC, smartphone or tablet device. Refer to *Establishing a Google Cloud Print Connection* for one-time directions needed to initially set up the xPrintServer device with Google Cloud Print.

**Note:** If your iOS device is running iOS 7 or later, please update your xPrintServer firmware to version 3.2.0 or later.

## Finding the xPrintServer IP Address

Use these directions to find your device IP address through which you may log into your xPrintServer device. Internet access is required.

**Note:** If you have gone through the directions, Establishing a Google Cloud Print Connection, an IP address was assigned to your xPrintServer unit.

Every xPrintServer device has a unique, identifying serial number that can be found on the *product information label* (see *Figure 1-2*). As part of the initialization/boot up process, the xPrintServer device automatically registers its IP address and associated serial number with the Lantronix Web Services website (<u>http://www.findmyxps.com</u>) which in turn provides the unique IP address of the xPrintServer device. You may then use the xPrintServer IP address to log into the user interface for printing management.

Use these directions to find the IP address of a new xPrintServer device.

- 1. Open an Internet web browser. See Supported Browsers.
- 2. Enter <u>http://www.findmyxps.com</u> into the web browser address bar.
- 3. Press Enter on the keyboard. You are prompted for the xPrintServer serial number.
- Enter the serial number of your xPrintServer print server. The serial number can be found on the product information label attached to your xPrintServer packaging (see Figure 1-2). It is an alphanumeric set of 12 characters.

LANTRON			Partners	Careers   Investors	eNews Sign-Up   🔯	I 📴 I 📇 I 🖸 SHARE
LANKO						2
Products	Solutions	Support	Newsroom	Resources	About Us	How to Buy
iome > Products > iPrin/Se	rver > Find My xPrintServer	•				
Device Networking Entreddel Networking External Networking Winkes Networking Ethernet Switches Software & Uslaes Cf Management VentServer	Enter your Seria	our xPrintServer Se	rm and it will redirect y		τ.	
Overview	-		dress and Initial Lo			
For the Home	Use these direct	tions to find the IP ad	ldress of a new xPrintS	erver device.		
For the Office Reviews		e serial number found nanumeric set of 12	I on the <i>product inform</i> characters.	ation label attached to	your xPrintServer p	ackaging. It
Specifications Managements	2. Enter on	ly one serial number	and click GO.	د سد . مو . مو		

#### Figure 3-1 Serial Number

5. Click the **Go!** button. You are redirected to your xPrintServer URL, after which a login prompt appears.

Lantronix xPrintServi × 🕒		
← → C © 172.19.100.101		\$ <b>\$</b>
		Admin User Default Login
	xPrintServer	<ul> <li>User Name: admin</li> <li>Password: PASS</li> </ul>
Load	ing Application	
Th	thentication Required e server 172.19,100,101:80 requires a emame and password. The server says: intServer.	
	User Name: Password:	
	Log In Cancel	

Figure 3-2 Redirected to Login Prompt

- 6. Enter the default Admin user login information.
  - User Name: admin
  - Password: PASS

*Note:* Upon initial login, modify the default "PASS" password as soon as possible for security reasons. See Changing Passwords.

You are redirected to your xPrintServer URL where you can see the *System Status on the Home Page.* 

7. Take note of the IP address of your xPrintServer device for all future logins.

*Note:* Your xPrintServer IP address is assigned by DHCP by default, however, you can manually configure a static IP address. See Assigning a Static IP Address to the xPrintServer Device.

# System Status on the Home Page

You can see your xPrintServer **System Status** information on the **Home** page whenever you log into your xPrintServer URL.

xPrintServer <sup>®</sup>			LAN	<b>ITRONIX</b> °
Home Admin Jobs	Printe	rs Users	Logs	Log-Off
	Sys	stem Status		
	Google Account	Please register a Google Account		
Home	Test GCP			
Status	Manage Printers			
About	Edition	Office		
Password	Version	5.0.0-66		
Help Quick Setup	Name	xPrintServer-00204A9D0264		
Quick setup	IP Address	172.19.100.47 (DHCP)		
	Serial Number	00:20:4A:9D:02:64		
	Up time	23:10		
	Configured Printers	2		
	Current Status	Ready		
	Time-zone	Pacific Standard Time (GMT -08:00)		
	Status Time	14:18:00		
	Locator LED	Ŷ		
xPrintServer is a registered trademark of Lantronix, Inc. Copyri		in the All Dickto Descend		www.lantronix.com

#### Figure 3-3 System Status Information on the Home Page

The System Status information includes the unit's **IP address** along with other important system status information:

Google Account

Indicates the Google email account address used to link the xPrintServer device to Google Cloud Print.

Test GCP

Print a test page from Google Cloud Print web printing services.

Manage Printers

Access connected printers through Google Cloud Print management page accessed online.

- Edition The edition of xPrintServer device (Office Edition).
- Version The current version of your firmware.
- Name

The configurable host name for the xPrintServer device. The default host name is **xPrintServer**.

#### IP Address

The unique IP address associated with your xPrintServer device. This IP address may be used to browse directly to the xPrintServer device's Web Manager from a supported browser.

#### • Serial Number

The unique serial number associated with the xPrintServer device which should match what is on the *product information label*.

#### • Up time

The amount of time the xPrintServer device has been operational since powered on or last restarted.

### Configured Printers

The number of printers successfully provisioned.

#### Current Status

The current status of the xPrintServer print server.

Time-zone

The configured time zone (can be changed through the Admin page).

Status Time

The time at which the system status information you see on the screen was captured.

#### Locator LED

Clicking the light bulb acauses the "X" LED on top of the xPrintServer unit to blink rapidly. Clicking the light bulb again turns off this feature. This feature is useful in situations where you wish to identify a specific xPrintServer device amongst multiple units.

# **Logging In**

Once the xPrintServer device is installed (see *Installation Steps*) and the IP address discovered (see *Finding the xPrintServer IP Address*), you may follow these directions to login to the xPrintServer print server via Local or Remote Authentication at any time.

**Note:** The xPrintServer device does not use the MS Active Directory<sup>®</sup> services for xPrintServer GUI authentication. It only uses the locally configured user database for the xPrintServer GUI authentication.

	Figure 3-4 Login Prompt	
Authenti	cation Required	×
2	A username and password are being requested by http://172.19.100.101. The site says: "xPrintServer"	
User Name:		
Password:		
	OK Cancel	

#### To Login:

- 1. Open an Internet web browser.
- 2. Enter the IP address of your xPrintServer device.

*Note:* If Bonjour networking technology is installed on your Windows or Mac computer, you may also access the user interface by entering xPrintServer-serialnumber.local where "serialnumber" is replaced by your xPrintServer unit's unique serial number (for example, xPrintServer-0080A3123456.local).

3. Enter your login information when prompted.

**Note:** See Finding the xPrintServer IP Address for the default user name and password (if the password has not yet been changed.

- User Name
- Password

You are logged into the xPrintServer user interface when you see System Status on the Home Page.

### **Local Authentication Login**

Local Authentication Login uses a local database of manually added user accounts for authentication into the xPrintServer device's Web Manager.

### **Remote Authentication Login**

Remote authentication allows authentication of users through Microsoft Active Directory. This is a feature that can be enabled by the Admin user. If Active Directory is enabled, the xPrintServer print server communicates with a remote server to authenticate user passwords (see *Managing Active Directory*). The Admin user must first establish a remote authentication user name and password in Microsoft Active Directory. Once established, users using remote authentication can follow the same steps under *Local Authentication Login* to login. Remote authentication is disabled by default.

**Note:** Though the xPrintServer print server supports remote authentication using MS Active Directory, it is only used for authenticating print jobs sent to xPrintServer-protected printers. The xPrintServer GUI access only authenticates against the xPrintServer-configured local user database.

# **Logging Off**

- 1. Click the **Log-Off** tab located at the top far right of any xPrintServer user interface page. You are prompted to close out of your browser window.
- 2. Close out of your browser to completely log off.

# **Navigation**

Navigation features for the xPrintServer user interface are outlined in this section.

#### Tabs allow you to move between xPrintServer pages and to Log-Off xPrintServer VINOUXX Double-click to sort Home Admin Jobs Printers Users Logs Log-Of table information by Printers column heading. Location Status Description Make/Model Cloud Enabled Clicking the Manufacturer 1 Printer 1 Manufacturer 1 Pr 0 豪-Auto Discovered Idle Links which beside a Printers \* Manufacturer 1 Printer 2 Auto Discovered Manufacturer 1 Pr Idle (NOT SHARED) available for each particular table list List \* page are listed here. Manufacturer 1 Printer 3 Auto Discovered Manufacturer 1 Pr Idle item will pull up the -Manufacturer 2 Printer 1 Auto Discovered Manufacturer 2 Pr Idle (NOT SHARED) pop-up command \* Manufacturer 2 Printer 2 Auto Discovered Manufacturer 2 Pr Idle The Lantronix menu associated \* xPrintServer Help Manufacturer 3 Printer 1 Auto Discovered Manufacturer 3 Pr Idle (NOT SHARED) with that item. -22can be accessed Manufacturer 3 Printer 2 Auto Discovered Manufacturer 3 Pr Idle via a Help link \* Manufacturer 3 Printer 3 Auto Discovered Manufacturer 3 Pr Idle (NOT SHARED) Manufacturer 4 Printer 1 1 Search Manufacturer 4 Printer 1; Net 95.47,ESS 201411101220,IOT 02.00.06 - xPrintServer Auto Discovered Manufacturer 4 Printer 1 Idle (NOT SHARED) ocket://172.19.100.179 Not Cloud Print Enabled When a specific printer Manufacturer 1 Printer 1; Net 95.47,ESS 201411101220,IOT 02.00.06 1-10 of 29 H on the Printers Þ 4 xPrintServer page is clicked, details Print Test Page about this printer Purge Job History appears in grey fields beneath the printer list. Delete Printer See Figure 4-9. Change Description xPrintServer is a registered trademark of Lantronix, Inc. Copyright © 2012-2014 Lantronix Inc, All Rights Reserved. Change Location Change Geolocation **Multiple Page Navigation** Show Share Info H 4 1-10 of 29 M • Hide Printe Set Printer Options Go to the first page Go to the last page Go backward one page Go to the next page Supply Levels Cancel

#### Figure 3-5 Navigating the xPrintServer User Interface

As illustrated above, navigation features for the xPrintServer user interface include the following:

Tabs

All the functionality of your xPrintServer user interface is divided between the **Home**, **Admin**, **Jobs**, **Printers**, **Logs** and **Log-Off** tabs located across the top of the user interface. Only the Admin user has full access to the functionality of all tabs within the xPrintServer user interface. Non-Admin users only have access to the **Home**, **Jobs** and **Log-Off** tabs. See *Figure 3-6* to compare Admin user and Non-Admin user access. Access these pages by clicking the same-named tab along the top of the screen. For instance, click the **Jobs** tab to get to the **Jobs** page or click **Home** to get to the **Home** page.



Home Home	Admin Jobs	Printe Sys	rs Users stem Status	Logs	<u>ANTRONIX</u> Log-Off	]◀───	to all seven	
Home Status About Plassword Hido Dakk Schup		Google Account Test GCP Manage Printers Edition Version Name	Please register a Google / Office 5.0.0-06 xPhintServer 00204A0D02				(Home, Adn	user interface nin, Jobs, sers, Logs and
Quex series		IP Address Serial Number	172.19.100.47 (DHCP) 00:20:4A:9D:02:64	xPrintSe	erver®			LANTRONIX'
		Up time	23:10	2	Home	Jobs		Log-Off
		Configured Printers	2			Su	stem Status	
		Current Status	Ready			59.	stem status	
		Time-zone	Padlic Standard Time (GA			Geogle Account	Please register a Google Account	
		Status Time	14:18:00	Home		Test GCP		
				Status		Manage Printers		
		Locator LED		About Peseword		Edition	Office 5.9.0-65	
	1			Help		Name	PrintServer 00204A0D0264	
				Quick Setup		IP Address	172.18.103.47 (DHCP)	
				1		Serial Number	00:29:44:10:02:64	
xPrintServer is a registernel trade	mark of Lantronia, Inc. Copyright	@ 2012-2014 Lantro	nix lest, Al Rights Reserved.			Up time	2 days	
						Configured Printers	2	
						Current Status	Ready	
	Non-Adm	nin use	rs			Timo-zono	Pacific Standard Tirss (GMT-08:00)	
						Status Time	21:50:55	
	have acces the Hor		,			Locator LED	8	
		'		i i i i i i i i i i i i i i i i i i i				
	and Log-	-Off tab	s.					

#### Links

Click to select from the links/commands available for each page. All links available for a particular web page are displayed along the left side. For instance, links to **Active**, **Completed** and **All** jobs are available on the left side of the **Jobs** page.

Search

A **Search** field is available for the **Jobs**, **Printers** and **Users** tabs. The search field features dynamic filtering that provides results based on the search string entered into the search field. The results dynamically update according to the search parameters entered in the search field. Deleting all contents of the **Search** field removes the filter and shows all results.

Button

This button may be found beside all items listed on the **Jobs** and **Printers** pages. Click the the button beside a particular print job or printer on these pages to pull up a pop-up command menu with commands that are available for that item.

Log-Off Tab

A **Log-Off** tab located at the far upper right of every xPrintServer user interface page allows you to logout easily.

#### Multiple Page Navigation

Arrows facilitating navigation between multiple pages become available when a larger number of items span multiple pages on the **Printers**, **Jobs**, **Users**, or **Logs** pages.

# Printing from an iOS Device

**Note:** If your iOS device is running iOS 7 or later, please update your xPrintServer firmware to version 3.2.0 or later.

This section explains how to print from your iOS device (e.g., iPad, iPod or iPhone).

Use these steps to print from your iPad, iPhone or other iOS device.

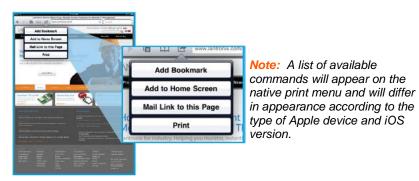
- 1. Connect your xPrintServer print server according to Hardware Installation Steps.
- 2. Using your iPad, iPhone or other iOS device, open web page, email, photo, etc. you wish to print and choose the icon to open the native print menu.

#### Figure 3-7 Sample View of Buttons on iOS devices

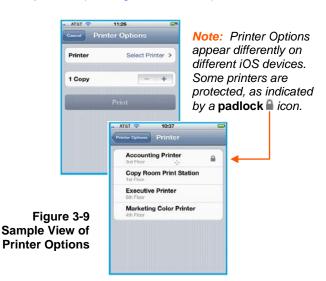


**Note:** The appearance of iOS device buttons will differ in appearance according to the type of Apple device and iOS version.

#### Figure 3-8 Sample View of Native Print Menu



- 3. Choose **Printer** in the **Printer Options** menu that appears. All available networked printers display on your iOS device, including protected printers (see *Figure 3-9* below).
- 4. Select the *appropriate printer*.
- Login, as necessary. User authentication is required when a protected printer is selected (see *Figure 3-9*).
- 6. Select the *number of copies* to print.
- 7. Click **Print**. Your print job is sent to the selected printer



# Printing from a Mac OS X Lion Desktop

This section explains how to print from your Mac Operating System (OS) desktop. To print, the Mac OS device needs to be online and on the same subnet as the xPrintServer unit. The xPrintServer Office Edition print server supports desktop printing from Mac OS X Lion and newer versions.

Use these steps to setup printing from your Mac OS through the xPrintServer print server.

- 1. Connect your xPrintServer device according to *Hardware Installation* Steps.
- 2. Go to System Preferences > Hardware.
- 3. Click on Print & Scan.



4. Click on the + button on the lower left corner. A list of printers appears.

9 🔿 🔿 Pi	rint & Scan
▲ ► Show All	(Q
Printers Manufacturer 3 Printer.	Manufacturer 3 Printer 1
Manufacturer 1 Printer • Idle Manufacturer 5 Printer • Idle	Open Print Queue Options & Supplies
1	Location: Kind: Manufacturer 3 Printer 1 - xPrintServer Status: Idle
Share	this printer on the network Sharing Preferences)
Default printer:	Last Printer Used
Default paper size:	US Letter \$
Click the lock to prevent further changes.	(?

5. Select the printer you wish to add.

9 - (		
	IP Windows	Search
Printer Name		🔺 Kind
Manufacturer 1 Pri	nter 4	Bonjour
Manufacturer 1 Pri	nter 5	Bonjour
Manufacturer 2 Pri	nter 1	Bonjour
Manufacturer 2 Pri	inter 2	Banjour
Manufacturer 2 Pri	nter 3	Bonjour
Manufacturer 4 Pri	nter 2	Bonjour
Manufacturer 5 Pri	nter 5	Bonjour
Manufacturer 5 Pri	nter 6	Bonjour
Name:	Manufacturer 6 Printer 3	(DECE3B)
Location:		
Print Using:	AirPrint	\$
	The selected printer softwa not let you use all the featu	re isn't from the manufacturer and may ires of your printer.

6. Click on the **Add** button. The printer is now added in your available list of printers and is ready to print.

O O Pr	Ç.
Printers Manufacturer 3 Printer. Manufacturer 1 Printer • Idle Manufacturer 5 Printer • Idle	Manufacturer 3 Printer 1 Open Print Queue Options & Supplies Kind: Manufacturer 3 Printer 1 - xPrint/Server Status: Idle
- Share	this printer on the network Sharing Preferences)
Default printer:	Last Printer Used \$
Default paper size:	US Letter +
Click the lock to prevent further changes.	

# Setting Up Printing from a Windows 7 Desktop

This section explains how to prepare your Windows 7 desktop for printing xPrintServer Office Edition supports desktop printing from Windows 7 and Windows 8 Operating Systems through Bonjour Print Services. You need to download Bonjour Print Services for Windows v2.0.2 or higher.

## Performing Add Printer Setup

- 1. Connect your xPrintServer print server according to *Hardware Installation* Steps.
- Download Bonjour Print Services at <u>http://support.apple.com/kb/DL999</u>, following prompts as instructed.
- 3. Launch Bonjour Printer Wizard:
  - Through Windows Start Menu by clicking Start > Control Panel > Bonjour Print Services > Bonjour Print Wizard.

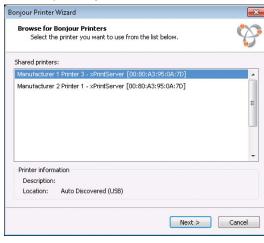
• By double-clicking the Bonjour Print Wizard icon on your desktop.

The Bonjour Printer Wizard appears with a list of discovered printers.

4. Click on printer you wish to install.

5. Search and select your printer by

Manufacturer and Model, and click Next.

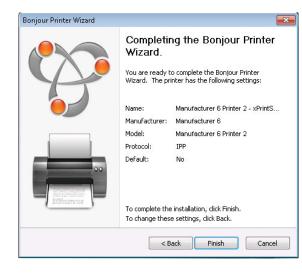


Manufacturer 6 Printer 2 - xPrintServer The Bonjour Printer Wizard cannot find a driver for this printer. Manually select from the list, or click 'Have Disk' if your printer came with an installation disk. Manufacturer . Model Manufacturer 6 Printer 1 Manufacturer 6 Printer 2 Manufacturer 3 Manufacturer 4 Manufacturer 6 Printer 2 Manufacturer 6 Printer 3 Manufacturer 5 Manufacturer 6 Printer 4 Manufacturer 6 Printer 5 Manufacturer 6 Printer 6 Manufacturer 6 Manufacturer 7 ÷ Manufacturer 8 Manufacturer 6 Printer 7 🔲 Use this printer as the default printer Have Disk... < Back Next > Cancel

The manufacturer and model determine which printer software to use.

Bonjour Printer Wizard

Install Bonjour Printer



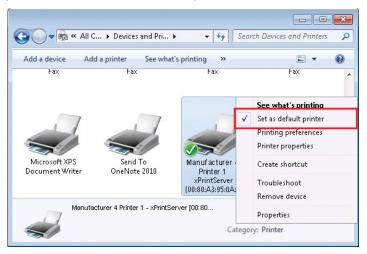
6. Click **Finish** to complete the installation.

-26

### **Configuring a Default Printer**

This section provides instructions on setting an installed printer on your network as the default printer.

- 1. Click Start > Control Panel on your desktop.
- 2. Double-click to select Devices and Printers.
- 3. Right-click the printer to be set as default and select **Set as default printer**. The selected printer is now set as the default printer.



# Setting Up Printing from a Windows 8 Desktop

This section explains how to prepare your Windows 8 desktop for printing. xPrintServer Office Edition print server supports desktop printing from Windows 8 and Windows 7 Operating Systems through Bonjour Print Services. You need to download Bonjour Print Services for Windows v2.0.2 or higher.

### **Performing Add Printer Setup**

- 1. Connect your xPrintServer print server according to Hardware Installation Steps.
- Download Bonjour Print Services at <u>http://support.apple.com/kb/DL999</u>, following prompts as instructed.
- 3. Launch Bonjour Printer Wizard:
  - Through Window's Start Menu by clicking Start > Bonjour Print Services > Bonjour Print Wizard.
  - By double-clicking the **Bonjour Printer Wizard** icon on your desktop.

The Bonjour Printer Wizard appears with a list of discovered printers.

4. Click on printer you wish to install.

Shared printers:			
Manufacturer 1, Prir	nter 1		^
Manufacturer 1, Prir			
Manufacturer 1, Prir			
Manufacturer 2, Prir			
Manufacturer 2, Prir			
Manufacturer 2, Prir Manufacturer 2, Prir			
Manufacturer 2, Prir Manufacturer 2, Prir			
Manufacturer 3, Prir			
Manufacturer 3, Prir			
Manufacturer 3, Prir			~
Printer information Description: Manufa	cturer 1, Printe	r 3	

5. Search and select your printer by Manufacturer and Model, and click Next.

Install Bonjour Prin The manufacturer		lel determine which printer software to	ouse. 🏠
	Printer V he list, o	Printer 3 Vizard cannot find a driver for this prin r click 'Have Disk' if your printer came v	
Manufacturer Manufacturer 1 Manufacturer 2 Manufacturer 3 Manufacturer 4 Manufacturer 5 Manufacturer 6 Manufacturer 7	~	Model Manufacturer 1, Printer 1 Manufacturer 1, Printer 2 Manufacturer 1, Printer 3 Manufacturer 1, Printer 4 Manufacturer 1, Printer 5 Manufacturer 1, Printer 7	
Use this printer as th	ie defaul	< Back Next >	Have Disk

**Note:** Up to two instances of the same network printer may appear during discovery (one instance reported by the Bonjour Print Wizard and the other by the xPrintServer). You may select either printer.

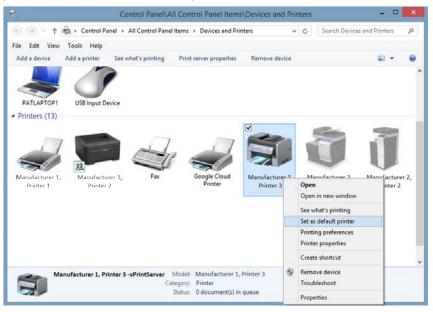
6. Click **Finish** to complete the installation.

f	Bonjour Printe	r Wizard
	Wizard.	ng the Bonjour Printer to complete the Bonjour Printer inter has the following settings:
	Name:	Manufacturer 1, Printer 3 - xPrint5
	Manufacturer:	Manufacturer 1
	Model:	Manufacturer 1, Printer 1
	Protocol:	Ibb
	Default:	No
Minanuse		e installation, dick Finish. e settings, dick Back.
	< 8	lack Finish Cancel

## **Configuring a Default Printer**

This section provides instructions on setting an installed printer on your network as the default printer.

- 1. Click Start > Windows System > Control Panel on your desktop.
- 2. Double-click to select Printers and Faxes.
- 3. Right-click the printer to be set as default and select **Set as default printer**. The selected printer is now set as the default printer.



# 4: Configuration

This chapter describes how to configure your xPrintServer print server using the xPrintServer user interface.

Admin user: the default and permanent master user login for the xPrintServer device. The Admin user has complete access of the xPrintServer user interface functionality including user, printer and job management and configuration capabilities as compared to non-Admin users who can only change their own password, have access to their own print jobs and view basic xPrintServer information.

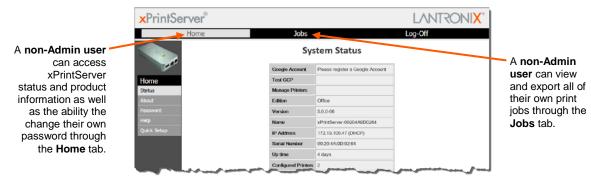
Non-Admin User Privileges	Admin User Privileges
<ul> <li>Access to functionality in the Home and Jobs tab in the xPrintServer user interface.</li> <li>Change user password.</li> <li>View and modify own print jobs (not the print jobs of other users).</li> <li>View basic information about the xPrintServer system status.</li> </ul>	<ul> <li>Access to Home, Admin, Jobs, Printers, Users and Logs tab pages which includes all the functionality available through the xPrintServer user interface.</li> <li>Change all user passwords.</li> <li>View and manage information about all print jobs, printers and user logins.</li> <li>Ability to update firmware, reset device to default settings, add/delete printers and users, manage printer access, modify time zone, restart the device, view and send diagnostic information, update the name of the xPrintServer unit, and monitor logs.</li> </ul>

Table 4-1 Comparing Admin and Non-Admin User Privileges

# **User Administration**

**Note:** The printer\* depicted in Figure 4-2 represents models with authentication and /or account tracking capability.

The upcoming user admin subsections, including *Adding a New User*, *Deleting a User*, *Exporting Users*, *Importing Users*, *Downloading a Sample CSV* and portions of *Changing Passwords* are only available to Admin users to facilitate the assignment of Google Cloud accounts to usernames and passwords stored on authenticating and/or account tracking printers. Non-Admin users, if created, can print and monitor their own print jobs and will have access to the information and functionality within the **Home**, **Jobs** and **Log-Off** tabs. See *Figure 4-1*.



#### Figure 4-1 Non-Admin User Access

### **Account Translation**

xPrintServer user administration supports account translation, an authentication and account tracking feature that works with Google Cloud Print and the built-in authentication and/or account tracking databases of certain printers. Such printers require the matching of Google Cloud Print accounts to pre-assigned username(s) and passwords(s) stored on the printer database for authentication and/or account tracking purposes. Only print jobs sent from a Google Cloud Print account which matches an existing printer username and password are allowed to print. xPrintServer user administration provides different ways to manage and assign matching usernames and passwords between Google Cloud Print accounts and usernames and passwords stored on the printer database. All xPrintServer user administration functionality is found under the **User** tab.

**Note:** Chapter 5: Google Cloud Print provides instructions for establishing a connection, installation and printing related to Google Cloud Print.



Printer\* Database

### **Changing Passwords**

The Admin user and non-Admin users may use the *To change your password* directions below to change their user password. Only the Admin user may use the *To change a non-Admin user password as the Admin* directions below to change the password for any non-Admin user. Password changes are effective immediately.

#### To change your password:

- 1. Login to the xPrintServer user interface as Admin user (see Logging In.)
- 2. Click the **Password** link on the left side of the **Home** page. The **Change Password** page appears displaying the **User** for which the password change is being made.
- 3. Complete the following fields:
  - Current Password
  - New Password

**Note:** Passwords are case-sensitive and may include up to 32 characters. All printable characters may be used with the exception of single and double quotation marks such as: \ or \.

- Re-enter new Password
- 4. Click Change Password.
- 5. Click **OK** in the confirmation pop-up that appears. Your password is changed.

*Note:* You will be asked to login again if you attempt to navigate to a different user interface page.

#### Figure 4-3 Changing Own Password

xPrintSe	rver®				LAI	NTRONI <mark>X</mark> °
Home	Admin	Jobs	Printers	Users	Logs	Log-Off
			Change P	assword		
			User:	admin		I
Home			Current Password:			
Status			New Password:			
About			Re-enter new Password:		]	
Password					_	
Help			Change P	assword		
Quick Setup						
		-	Anton			ليسعم

#### To change a non-Admin user password as the Admin:

- 1. Login to the xPrintServer user interface as Admin user (see Logging In.)
- 2. Click the Users tab to access the Users page. All users are listed here.
- 3. Utilize Search as necessary to find a particular user.
- 4. Click **Password** button to the right of the **User ID** to be changed.
- 5. Enter the new password into both fields:
  - Password
  - Re-enter Password

**Note:** Passwords are case-sensitive and may include up to 32 characters. All printable characters maybe used with the exception of single and double quotation marks such as: • or •.

- 6. Click Change Password.
- 7. Click **OK** in the confirmation pop-up that appears. User password is changed.

**Note:** If the Admin user password is changed, you will be asked to login again if you attempt to navigate to a different user interface page.



#### Figure 4-4 Changing Other User Passwords (Admin User Only)

#### Adding a New User

The Admin user can use these steps to create new users.

- 1. Login to the xPrintServer user interface as Admin user (see Logging In.)
- 2. Click the **Users** tab to access the **Users** page. All users are listed here.
- 3. Click Add User...

**Note:** The **Full Name** of a new user is case sensitive and may include up to 32 alpha and/or numeric characters.

- 4. Enter the following fields for the new user:
  - Username
  - Password
     Re-enter Password
     Note: When establishing a new user, please note that the iOS device browser capitalizes the first character of the User ID. Make sure the User ID is correct prior to submitting your request to add user.
  - Full Name
  - GCP Account (optional)
- 5. Click **Add User** (or **Cancel** if you want to cancel this action.) The new user immediately displays on the **Users** page.

Home	Admin	Jobs	Printers	U	sers	Logs	Log-Of
Alexand and a			U	sers			
	Username	Full Name		GCP Account			
						Delete	Password
'S	user2	Patty				Delete	Password
Users	user3	Grace				Delete	Password
Users	user4	James		xpsltrx1@gmail.com		Delete	Password

Figure 4-5 Adding or Deleting a User (Admin User Only)

#### **Deleting a User**

The Admin user can use these steps to delete users.

- 1. Login to the xPrintServer user interface as Admin user (see Logging In.)
- 2. Click the Users tab to access the Users page. All users are listed here.
- 3. Utilize Search as necessary to find a particular user.
- 4. Click the Delete button to the right of the User ID to be deleted.
- 5. Click **Yes** in the confirmation pop-up that appears (or **No** if you want to cancel this action.) . The deleted user is immediately removed from the list of users on the **Users** page.

### **Exporting Users**

The Admin user can use these steps to export users. The user information is exported as a downloaded CSV file that can then be saved to specific chosen location (e.g., a flash drive or a designated place on the hard drive.) This exported user information can be imported into other xPrintServer units. The information within the spreadsheet can also be modified and saved before import into other xPrintServer units. See *Importing Users* below for directions as necessary.

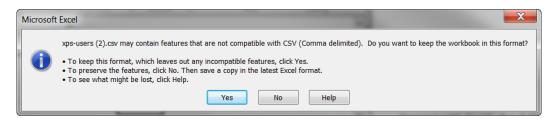
- 1. Login to the xPrintServer user interface as Admin user (see Logging In.)
- 2. Click the Users tab to access the Users page. All users are listed here.
- 3. Click the **Export Users** button. A pop-up window appears with the choice to open or save the file. The name of this file is xps-users.csv by default. This file contains the username, full name, password, GCP Account and Admin information of all non-Admin users. See *Figure 4-6* below.

rints	erver®				LA	NTROM	IX.					
Home	Admin	Jobs	Printers	Users	Logs	Log-Off	8					
	Usemame	Full Name	User									
	user1	1 of 2 lab user	GCPA	CCOUNT	Delete	Password	-					
ers	user2	2 of 2 lab user			Delete	Password						
al Users	user3	guest login			Delete	Password						
	user4	testing	xpsitrx	1@gmail.com	Delete	Password	1					
-	g xps-users.csv have chosen to open:	and the second	<b>X</b>									
Wh	xps-users.csv       which is: Microsoft Excel Cc       from: http://172.19.100.47       at should Firefox do with this       Open with       Microsoft E       Open stile	xcel (default)	-	File Hom Paste V Clipboard Ts	alibri - 11 <b>J</b> <u>I</u> <u>I</u> + <u>A</u> - <u>A</u> - Font	e Layout Formul = = = = * = = = # = = = # = = = Alignment	as Data Gener S - S -	% • Styles	ar Insert - ar Delete -	Σ		A nd 8
Wh	xps-users.csv which is: Microsoft Excel Co from: http://172.19.100.47 at should Firefox do with this Qpen with Microsoft Ex	s file? xxcel (default)	• Cancel	File Hom Paste 2 - 11 Paste 2 - 11 Clipboard 75 A1 A 1 id 2 3 3 4	e Insert Pag alibri - 11 D Z U - A - A Font - C	Layout Formul Layout	as Data Gener S • S •	Review Vie al • % • 3 bber 15 F admin 6 0 0	Porter -	Σ	Sort a	æ Fø Sel

Figure 4-6 Exporting Users

- 4. Click **Save File** option and **OK**.
- 5. Save this file to a known location to import the file to another xPrintServer unit.

Ready



6. Click Yes if this Microsoft Excel window appears.

### **Importing Users**

The Admin user can use these steps to import user information from one xPrintServer device to another xPrintServer device. A previously downloaded CSV file needs to be available in order to import user information. See *Exporting Users* for directions for downloading user data from a separate xPrintServer unit. Importing a blank CSV file (see *Downloading a Sample CSV*) can also be done to erase all user information.

- 1. Login to the xPrintServer user interface as Admin user (see Logging In.)
- 2. Click the Users tab to access the Users page. All users are listed here.
- 3. Click the Import Users... button. The Import Users page appears.
- 4. Click the **Browse...** button to browse to and open the file of exported users. The file name appears on the **Import Users** page.
- 5. Click the **Import** button.
- 6. Click **Yes** in the confirmation window that appears.

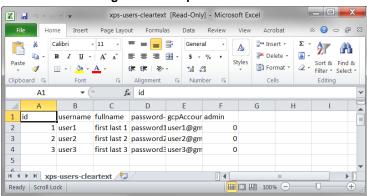
7. Click **OK** to dismiss the pop-up window describing the activities in the import.

**Note:** Repeating the steps above to import a separate user list causes you to override any preexisting user list.

### **Downloading a Sample CSV**

The Admin user can use these steps to download a sample CSV file. This is a blank file without user data showing the categories of information that would be listed per user. User information can be directly entered and saved into this spreadsheet file, then imported onto an xPrintServer unit. Importing a blank CSV file can also be done to erase all user information.

- 1. Login to the xPrintServer user interface as Admin user (see Logging In.)
- 2. Click the **Users** tab to access the **Users** page. All users are listed here.
- 3. Click the **Download Sample CSV** button. A pop-up window appears with the choice to open or save the file. The name of this file is xps-users.csv by default. This file contains the username, full name, password, GCP Account and Admin information of all non-Admin users. See *Figure 4-7* below.



#### Figure 4-7 Sample CSV File

- 4. Click Save File option and OK.
- 5. Save this file to a known location to edit later and import to another xPrintServer unit.

## **Printer Access Control (Protecting Printer Access)**

Access to a specific printer can be controlled so that a user must be authenticated before printing is allowed. The user is prompted for a username and password when selecting a printer with a padlock icon. Users are then authenticated via printer access control through the xPrintServer local user database and potentially the MS Active Directory (if enabled.)

- The Admin user can use the steps below to change local user access to a specific printer.
- If the Admin user enables MS Active Directory printer access, the steps below additionally configure the xPrintServer print server to use MS Active Directory services as a remote authentication server. See *Managing Active Directory* for instructions to enable MS Active Directory.

**Note:** Printer access control does not apply to MS Windows OS printing, since MS Windows printing does not currently support a mechanism for prompting users for print job authentication challenges.

#### To configure printer access control:

- 1. Login to the xPrintServer user interface (see Logging In).
- 2. Enable MS Active Directory printer access control (see *Managing Active Directory*) as desired:
  - <u>If not enabled</u>, the following steps pertain only to printer access utilizing the xPrintServer Local User Database.
  - <u>If enabled</u>, the following steps pertain to both printer access using the xPrintServer Local User Database and MS Active Directory.
- 3. Click the Printers tab to access the Printers > List page (see Figure 4-9).
- 4. Click the **Access** link to the left of the Printers page. A list of configured printers on the network is listed here.
- 5. Utilize Search as necessary to find a particular printer.
- Click the potential button to the right of the specific printer with user access to be viewed or modified. The **Disable access control** checkbox is checked by default, allowing all users access to this printer.

xPrintSe	erver®				LANT				
Home	Admin	Jobs	Printers	Users	Logs	Log-Off			
	Description		Printer Ac		l Users				
	Manufacturer 1 Printer 1		Auto Discovered	Restrict	ied				
Printers	Manufacturer 1 Printer 2		Auto Discovered	All Use	rs -	- 🖗			
Access Discovery Printer Address Printer Drivers Advanced Heb Search Plinters	and a street	- 1 May	Printe	<b>YS</b> Ny Address	Jobs		Users	Logs	ICONIX Log-Off
			Printer Adveno Hidp			s		-	

#### Figure 4-8 Printer Access Control

- 7. To allow <u>all users</u> access to this printer, check the **Disable access control** checkbox at the top of the screen. Individual **User ID** checkboxes that may have specified user access disappear.
- 8. To allow <u>specific users</u> access to this printer, uncheck the **Disable access control** checkbox at the top of the screen. Individual **User ID** checkboxes appears to allow you to select users allowed access to this printer. In addition, all valid Active Directory accounts will be allowed.
  - Check the **User ID** checkbox of users to be granted printer access to this printer.
  - Uncheck the **User ID** checkbox of users to not be granted printer access to this printer.

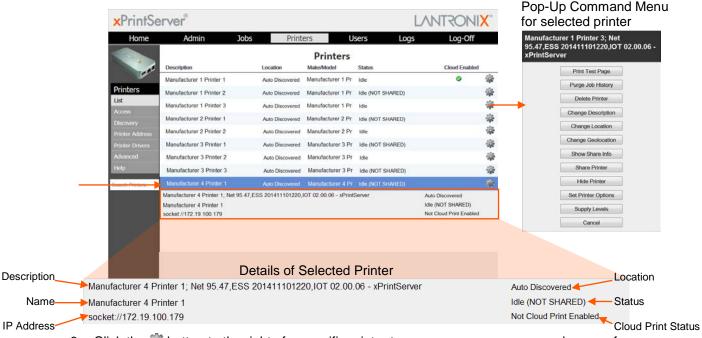
xPrintSe	rver <sup>®</sup>				LANTR	ONI <mark>X</mark> °		
Home	Admin	Jobs	Printers	Users	Logs Lo	og-Off		
			Disable ac	cess control				
	Permitted I	Jsers are all	owed access	s to Manufactu	rer 1 Printer 1	- xPrin		
	+	U	semame	Full Name				
Printers	2							
Access	2		182	2 of 2 lab (	user			
Discovery	E	15	83	guest login	n			
Printer Address		L2	icr4	testing				
Printer Drivers			Save	Cancel				
Advanced			(1997)					
Help								
Select Usors			Duint					
			×PrintS	erver			L	ANTRONI <mark>X</mark> °
	magnes	roas	Home	Admin	Jobs	Printers	Users Logs	Log-Off
					P	rinter Acc	ess Control	
			*	Description	Loca	tion	Allowed Users	
				Manufacturer 1 Printer	r1 Auto	Discovered	Restricted	<b>\$</b>
			Printers	Manufacturer 1 Printer	r 2 Auto	Discovered	All Users	*
			List					
			Access					
			Discovery Printer Address					
			Printer Drivers					
			Advanced					
			Help					
			Search Printers					
			and the second	يموجعهما	- phone -		-non	a shared

- 9. Click **Save** (or **Cancel** if you want to cancel this action). The **Printer Access Control** page list of printers re-appear with the **Allowed Users** column immediately updated to show your latest modification.
- 10. Repeat steps above to modify access control on additional printers.

## **Viewing Configured Printers**

The Admin user may utilize these instructions to view provisioned printers.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- Click the Printers tab to access the Printers > List page. The Description, Location, Make/Model, the last known Status, and Cloud Enabled status of all currently configured printers is listed on this page.
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click on any printer in the list to retrieve additional information on that printer. In *Figure 4-9* below, the fourth printer in the list was clicked and the associated printer details displayed in a grey field at the bottom of the list of printers.



#### Figure 4-9 Printer Details and Pop-Up Command Menu

6. Click the 🎲 button to the right of a specific printer to access a pop-up command menu of options available for that printer. Each of these options is explained in greater detail under *Admin Printer Configuration Options*.

## **Configuring Printers**

**Note:** Discovery of the xPrintServer device from a PC requires Apple's Bonjour print services, which may be installed via Apple's iTunes® or Safari web browser or Bonjour Print Helper available at <a href="http://support.apple.com/kb/DL999">http://support.apple.com/kb/DL999</a>.

All printers are added and configured to the xPrintServer device via discovery where the xPrintServer unit discovers and provisions printers. Discovery happens in one of two ways:

- Auto Discovery: This is the automatic method of printer discovery and provisioning. Auto discovery is enabled by default so that each time the xPrintServer device starts up or a printer is connected to the USB port, the Discovery protocol automatically runs one time, discovering and provisioning all printers connected since the last start up. This automatic feature can be disabled. See instructions below.
- Discovery: This is the Admin user-activated method of discovering and provisioning printers that can be initiated after the xPrintServer print server is up and running. This method is useful in situations where printer(s) have been added since the last startup of the xPrintServer device. A user may wish to discover and provision the printer(s) at a particular moment rather than waiting until the auto discovery opportunity at the next startup of the xPrintServer device.

**Note:** Only printers listed among the Lantronix xPrintServer print server published list of printers is auto-provisioned after Discovery (see http://www.lantronix.com/xprintserver-supported-printers). Configuration options to manually add a printer, modify advanced printer settings and restart the printer publisher are available under **Printers > Advanced**. Use these advanced options only if instructed to do so by Lantronix Technical Support.

### **Enabling or Disabling Discovery**

The auto discovery utility of the xPrintServer print server is enabled by default so that whenever you start up your xPrintServer device, auto discovery automatically runs one time. Auto discovery can be disabled or re-enabled at any time. The Admin user may utilize these instructions to access where you may disable or re-enable auto discovery. Users may also perform manual discovery by utilizing the *Re-Run Discovery button*.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the **Printer** tab to access the **Printers > List** page (see *Figure 4-9*).
- 3. Click the **Discovery** link to the left of the page to reach the **Printer Discovery** page. The current auto discovery mode is displayed at the top of the page.



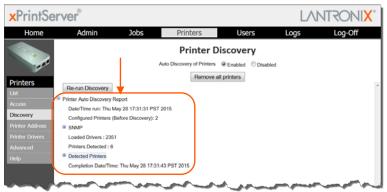
#### Figure 4-10 Printer Discovery Page

4. Check **Enabled** or **Disabled** to enable or disable printer, as desired. The auto discovery mode automatically adjusts to your selection in a few seconds and your mode choice is preserved during subsequent xPrintServer device startups. Auto discovery occurs during device bootup and when a USB device is connected.

### **Configuring Printers through Auto Discovery**

Auto discovery of printers happens automatically each time you startup xPrintServer device, as long as auto discovery is enabled prior to the startup.

- 1. Make sure auto discovery is enabled (see *Enabling or Disabling Discovery* above).
- 2. Startup and login to the xPrintServer user interface (see *Logging In*) as usual. The Discovery protocol runs one time automatically upon startup.
- Click the Printer tab to access the Printers > List page (see Figure 4-9). All printers which were auto discovered at this startup is listed here with "Auto Discovered" listed under the Location column.
- 4. Click the **Discovery** link to the left of the page to reach the **Printer Discovery** page. A *Printer Auto Discovery Report* appears showing the current date and time the xPrintServer print server automatically discovered and configured printers and associated downloaded drivers.



#### Figure 4-11 Sample Printer Auto Discovery Report

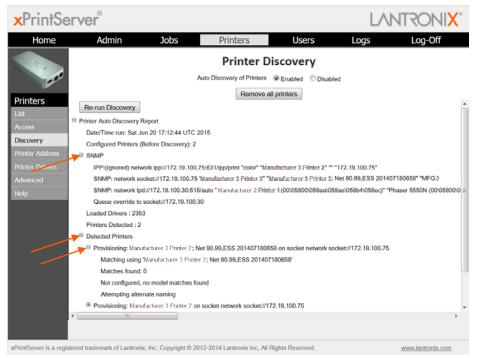
### **Configuring Printers through Discovery**

The Admin user may run Discovery anytime after the xPrintServer device is started up. Utilize these instructions to discover and provision network printers connected after the xPrintServer device last started up or printers on other networks if their IP addresses have been added (see *Updating Discovery Printer IP* Addresses).

**Note:** If utilizing Google Cloud Print and Deleting All Configured Printers was recently performed, first verify all printers have been de-registered on Google Cloud Print management interface. Reference steps in Deleting All Configured Printers.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the **Printer** tab to access the **Printers > List** page (see *Figure 4-9*).
- Click the **Discovery** link to the left of the page to reach the **Printer Discovery** page. A
  message stating "Printer Auto Discovery has not yet been run" appears if printers are
  available for discovery. If new printers are not available for discovery, you will see a Printer
  Auto Discovery Report (see *Figure 4-11*).

- 4. Click the **Re-run Discovery** button located directly above the **Printer Auto Discovery Report**, to manually check for any new printers. After a few minutes, a new *Printer Auto Discovery Report* appears showing the current date and time of the current discovery and configuration of printers and associated downloaded drivers.
- 5. Expand the **SNMP** field to see configuration information about the discovered printer(s). An example of what you may see in the SNMP field:



#### Figure 4-12 Expanding Detected Printers Information

6. Expand the **Detected Printers** field and further expand additional available subcategories (indicated with a 
icon to the left) to see a list of discovered printers and the status of the provisioning results.

*Note:* If you expand the **Printer Auto Discovery Report**, you may need to use the up-down scroll bar to see the entire contents of your report.

## **Deleting All Configured Printers**

The auto discovery feature of the xPrintServer device is enabled by default so that whenever you power up your xPrintServer device, discovery automatically runs one time. The Admin user may also use the steps below to remove all configured printers in the xPrintServer.

- 1. Login to the xPrintServer user interface (see Logging In).
- 2. Click the **Printer** tab to access the **Printers > List** page (see *Figure 4-9*).
- 3. Click the **Discovery** link to the left of the page to reach the **Printer Discovery** page.
- 4. Click the **Remove all printers** button to remove all configured printers, as desired.
- 5. Click **Yes** in the confirmation pop-up that appears (or **No** to cancel action).
- 6. Log-off (see *Logging Off*) and close your browser. All printers are deleted.

- To check that printers are deleted, login to the xPrintServer user interface and click the Printers tab to access the Printers List page (see *Figure 4-9.*) "No Printers Found" should be displayed.
- 8. If using Google Cloud Print, verify all printers have been de-registered by going into the Google Cloud Print management page (*see Accessing Google Cloud Print Administrative Features Online*) and deleting any remaining printers from the previous xPrintServer device registration.

## **Setting Real Time Clock**

Real Time Clock is a built-in function in the xPrintServer print server which time-stamps printingrelated activities such as those identifying the time of log activities or print jobs. Real Time Clock is automatically on, syncs time with <u>pool.ntp.org</u> (Network Time Protocol), and is set, by default, at GMT -800 PST (Pacific Standard Time).

#### To modify the Time-zone

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- Click the Admin tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*). The Select Time-zone page is the default page the Admin user gets to upon clicking on the Admin tab.
- 3. Click the **Time-zone** link on the left side of the **Admin** page, as necessary.

Home	Admin	Jobs	Printers	Users	Logs	Log-Off
			Select Tin			
Admin Google Account		Select Time-zon	e: Pacific Standard Time	(GMT -08:00)		
Time-zone			Change Tin	ne-zone		
Firmware						
Name						
Factory Reset						
Restart						
IP Address						
Security						
Diagnostic						
Active Directory						
Save/Restore						
Proxy Server						
Help						

Figure 4-13 Admin Menu (Defaults to Time-zone Link)

- 4. Select a new time zone from the **Select Time-zone** drop-down menu.
- 5. Click the **Change Time-zone** button.
- 6. Click Yes in the confirmation pop-up that appears (or No to cancel action).
- 7. Wait for the xPrintServer device to reboot. When the time zone is changed, the xPrintServer device automatically restarts, bringing you back to *Figure 3-3 System Status Information on the Home* Page. The unit is now set to your newly chosen time zone.

## Assigning a Static IP Address to the xPrintServer Device

Your xPrintServer IP address is DHCP by default, but can be configured with a static IP address. The Admin user may utilize these instructions to establish a static IP address.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- 2. Click the **Admin** tab to access the **Admin** menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*).
- 3. Select IP Address to access the Admin > IP Address page.
- 4. Click the **Static** radio button near the top of the page to access static IP address configuration fields.
- 5. Complete the following fields:
  - IP Address
  - Netmask
  - Default Gateway
  - DNS Server
- 6. Click Save.
- 7. Click **OK** in the confirmation pop-up that appears. The unit restarts.
- 8. Close out of your xPrintServer browser and open a new browser.
- 9. Enter the newly assigned static IP address.
- 10. Login to the xPrintServer user interface (see *Logging In*). The assigned static IP address appears on the **System Status** page.

## **Admin Printer Configuration Options**

Configuration options available on a specific printer can be accessed through the **Pop-Up Printer Command Menu** (see *Figure 4-9*) of the xPrintServer user interface. The Admin user may utilize the *Search* feature as necessary to find a particular, previously discovered printer, and access the Pop-Up Printer Command Menu for that printer.

### **Printing a Test Page**

The Admin user may use these directions to print a test page for a selected printer.

*Note:* For certain multifunction printer models, the user authentication settings need to be turned off in order to print test pages.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- 2. Click the **Printer** tab to access the **Printers > List** page (see *Figure 4-9*).
- 3. Utilize *Navigation*as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click the the button beside the printer through which you want to print a test page.

- 6. Click **Print Test Page** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it) and a test page print job is sent to the selected printer..
- 7. Click **OK** in the confirmation pop-up providing a print job ID.

### **Purging Job History**

The Admin user may use this selection to purge all printed job history information. Otherwise, by default, xPrintServer device maintains a list of the last 50 printed jobs.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the Printer tab to access the Printers > List page (see Figure 4-9).
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click the printer with the job history you want to purge.
- 6. Click **Purge Job History** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it).
- 7. Click **Yes** in the confirmation pop-up to continue (or **No** to cancel action) and all print jobs not yet printed is purged from the selected printer.
- 8. Click **OK** in the second confirmation pop-up.

### **Deleting a Printer**

The Admin user may use this selection to delete a printer that is currently configured. Printers may later be added and configured according to the directions in the *Adding, Finding and Discovering Printers* section.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the Printer tab to access the Printers > List page (see Figure 4-9).
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click the solution beside the printer you want to delete.
- 6. Click **Delete Printer** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it).
- 7. Click **Yes** in the confirmation pop-up to continue (or **No** to cancel action) and the selected printer is deleted.
- 8. Click **OK** in the second confirmation pop-up.

### **Changing Printer Description**

The Admin user may use this selection to change the advertised printer name of a configured printer as it is displayed to all users on their iOS devices. The value entered in the printer description field becomes the printer name that is advertised to iOS devices and Bonjour Print clients.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- 2. Click the **Printer** tab to access the **Printers > List** page (see Figure 4-9).
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click the we button beside the printer for which you want to change description.
- 6. Click **Change Description** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it).
- 7. Modify the new description for the printer in the pop-up window which appears.

#### Figure 4-14 New Printer Description

Enter new Description for Manufacturer 3 Printer 1 AirPrint - xPrintServer			
Engineering Color Printer 1			
	OF	Cancel	

8. Click **OK**. After a few seconds, the printer description is changed.

### **Changing Printer Location**

The Admin user may use this selection to change the advertised location of a configured printer as it is displayed to all users on their tablet, smart phone, PC or Mac. This command is useful for updating the location of printers initially identified as "Auto Discovery".

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the Printer tab to access the Printers > List page (see Figure 4-9).
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click the statution beside the printer with location to be changed.
- 6. Click **Change Location** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it).
- 7. Modify the printer location in the pop-up window which appears.

#### Figure 4-15 New Printer Location

Enter Value		
Enter new Location for Manufacturer 3 Printer 1 AirPrint - xPrintServer		
Auto Discovered		
	OK Cancel	

8. Click **OK** (or **No** to cancel action). After a few seconds, the printer location is changed.

### **Changing Printer Geolocation**

Use this selection to specify the advertised geographical location (geolocation) of a configured printer as it is displayed to all users on their tablet, smart phone, PC or Mac. Reference <u>https://tools.ietf.org/html/rfc5870</u> to learn more about a URI use for geographic locations. Geolocation information for a printer is blank by default.

- 1. Login to the xPrintServer device's Admin interface (see Logging In.)
- 2. Click the Printer tab to access the Printers > List page (see Figure 4-1.)
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click the specified.
- 6. Click **Change Geolocation** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it.)
- 7. Modify the printer geolocation in the pop-up window which appears.
- 8. Click **OK**. After a few seconds, the printer location is changed.

### **Showing Shared Printer Information**

**Note:** If Google Cloud Print is used, all printers are shared to a registered Google account, by default.

Use this selection to show the URL and shared information of a specific printer provisioned for the xPrintServer device. A user can use this information to manually map a created printer to their device Up to 10 network-attached printers can be seen and shared at a time. The **Show Share Info** button displays the

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the **Printer** tab to access the **Printers > List** page (see Figure 4-9).
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click the 🗱 button beside the printer information to be shared.
- 6. Click **Show Share Info** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it). An information pop-up window appears showing the printer as it is shared:

#### Figure 4-16 Show Share Info Pop-up

Information	1	×
1	The printer is shared as:	
	http://172.19.100.165/printers/Manufacturer 3 Printer 1	
	ОК	

7. Click **OK** in the share info pop-up window to close it.

### **Sharing a Printer**

The Admin user may use this selection to make an xPrintServer-provisioned printer visible and available to laptops, desktops, smart phones, tablets and Google Cloud Print

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the Printer tab to access the Printers > List page (see Figure 4-9).
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize **Search** as necessary to find a particular printer.
- 5. Click the we button beside the printer to be shared.
- 6. Click **Share Printer** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it).
- 7. Click **Yes** in the confirmation pop-up to continue (or **No** to cancel action) and the selected printer becomes visible and available on iOS devices.
- 8. Click **OK** in the second confirmation pop-up.

### Hiding a Printer

The Admin user may use this selection to hide an xPrintServer-provisioned printer so that it is no longer visible or available on laptops, desktops, smart phones, tablets and Google Cloud Print.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- 2. Click the Printer tab to access the Printers > List page (see Figure 4-9).
- 3. Utilize **Search** as necessary to find a particular printer.
- 4. Click the is button beside the printer you wish to hide.
- 5. Click **Hide Printer** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it).
- 6. Click **Yes** in the confirmation pop-up to continue (or **No** to cancel action) and the selected printer becomes invisible and no longer available on tablet, smart phone and PC devices.
- 7. Click **OK** in the second confirmation pop-up.

### **Setting Printer Options**

The Admin user may use this selection to view and modify settings in an xPrintServer-provisioned printer.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the Printer tab to access the Printers > List page (see Figure 4-9).
- 3. Utilize Search as necessary to find a particular printer.
- 4. Click the 🙀 button beside the printer you wish to set printer options.
- 5. Click **Set Printer Options** in the pop-up command menu that appears (or **Cancel** within the same menu to cancel). Available printer settings appear organized under printer tabs. The number of printer tabs and the printer settings available and organized under the tabs vary among printer models.

×PrintServer <sup>®</sup>		LA			
Home Admin Jobs Printers Manufacturer 3 Printers Resuma	Users r 2 AirPrint - xPr Printer List	Logs rintServer	Log-Off		
Printers Ust Access Discovery Printserver Port Monitor Configuration Printserver Printserver Printserver Configuration Configuration Printser/Output Tray Search Printser Search Pri	2 Trays	vlor JCL	dot	Every printer has diff setting options availa organized under blue tab(s) as exemplified options available in t printers.	able, e heading I by the
The printer above provides	×Prin	ntServer	dmin Jobs	Printers Users I	LANTRONIX° .ogs Log-Off
several more modifiable settings organized under				facturer 2 Printer 3 AirPrint - xPrintS	
blue heading tabs than the printer to the right.	Printers		eneral Advanced PrintServer	Print Quality/Color JCL Job	Туре
Clicking any of the blue heading tabs brings you to the printer setting options organized under that tab.	Access Discovery Printer Ado Printer Drift Advanced Help Search Princ	rers		Media Stat: Latter (15 x 117) Media Source: (Tray 1 Birgens) = 2-Sided Print: 2 Sector Mrv; E pon Long Edge Use Printer Haltones: Ort % On Ether Dranges	

#### Figure 4-17 Sample Printer Options

- 6. Click through available tabbed headings (all in dark blue) and make changes as desired.
- 7. Click **Save Changes** to save. A note verifying that settings have been saved successfully appears on the screen. Changes to printer settings remain in place until changed through the xPrintServer device.
- 8. Click the **Return to Printer List** button at any time to return to the **Printers > List** page.

### **Showing Marker Supply Levels**

Use this selection to show the marker levels of a particular printer.

- 1. Login to the xPrintServer device's Admin interface (see Logging In.)
- 2. Click the Printer tab to access the Printers > List page (see Figure 4-9.)
- 3. Utilize *Navigation* as necessary in situations where there are multiple pages of printers.
- 4. Utilize Search as necessary to find a particular printer.
- 5. Click the printer with toner information to view.
- 6. Click **Supply Levels** in the pop-up command menu that appears (or **Cancel** within the same menu if you want to back out of it.) An information pop-up window appears showing the printer marker supply levels:

Supply Lev	els				
Marker Nam	е			Marker Level	
Printer 1 B 108R00993	lack Ink_	Reorder Nu	Imber	24	
Printer 1 C 108R00990	yan Ink_	Reorder Nu	mber	24	
Printer 1 M Number 108		nk_ Reorder		29	
Printer 1 Y 108R00992	ellow Ink	_ Reorder N	lumber	94	
Waste Tray				-4	
Cleaning Unit 109R00784_	_			69	
в		1-6 of 6	Ð	н.	
		OK			

#### Figure 4-18 Show Supply Levels

7. Click **OK** in the pop-up window to close it.

## **Updating Discovery Printer IP Addresses**

The Admin user may use this feature to create a list of printer IP addresses on the xPrintServer device to discover printers that are in different subnets than the xPrintServer unit. This feature allows auto-discovery of printers outside the current subnet.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- 2. Click the Printers tab to access the Printers > List page (see Figure 4-9).
- 3. Click the **Printer Address** link on the left side of the **Printers** page. A list of existing Printer IP Addresses appears in the **Printer IP Addresses** page, if any were previously established.
- 4. Click into the large square field in the **Printer IP Addresses** page.

	×PrintSer	ver®				LA	NTRONIX
	Home	Admin	Jobs	Printers	Users	Logs	Log-Off
				Printer IP A Enter Printer IP addre			
Click inside — to edit/type printer IP addresses.	Printers List Access Discovery Printer Address Printer Drivers Advanced Help	•		Save			
	xPrintServer is a register	ed trademark of Lantror	ix, Inc. Copyright © 2	012-2014 Lantronix Inc. All I	lights Reserved.		www.lantronix.com

#### Figure 4-19 Printer IP Address Page

- 5. Update the Printer IP Addresses by adding a new printer IP address, modifying an existing IP address or deleting an address. To add more than one printer IP address, enter one address per line (separated by a paragraph break using the **Enter** key on the keyboard).
- 6. Click **Save** to save added or modified IP address(es).
- 7. Click **OK** in the confirmation pop-up.

## **Viewing and Exporting Print Jobs**

The Admin user may use these steps to view and export print jobs and the details on a specific print job. Non-Admin users may only view and print their own print jobs and the details of their print jobs. The xPrintServer device maintains a list of the last 50 printed jobs by default.

- 1. Login to the xPrintServer user interface (see Logging In).
- 2. Click the **Jobs** tab to access the **Jobs** page. All **Active Jobs** are listed here. The information on this page is refreshed every 15 seconds.
- 3. Click the desired link to left to view a desired job category:
  - ٠ Active: to show all jobs that are currently active (default view)
  - Completed: to show all jobs that have been completed ٠
  - All: to show all jobs, active or completed. ٠

- 4. Utilize *Navigation* as necessary in situations where there are multiple pages of jobs.
- 5. Utilize Search as necessary to find a particular print job.
- 6. Click a particular job to bring up information about the job in a grey field below the job list.

Home	Admin	Jobs	Printers	User	s	Logs	Log-	Off			
				Il Jobs							
100	ninter anufacturer 1 Printer 1	Name	User		Page 1	State	Tue Jun 23 18:	FE-00-001E	-		
ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER	anufacturer 1 Printer 1 Ianufacturer 2 Printer 1		guest guest		1	completed at					
ctive.				port Job Log	1						
mpleted Ma	nufacturor 2 Printer 1	AirPrint xPrintServ	er [1] completed at Tue Jun 2	18: <mark>6:06 201</mark>	5						
test	print										
P				_	-						
h Jobs		Opening joblog.c	5V			×					
1.008		You have chose	en to open:								
		🔄 joblog.cs									
			Microsoft Excel Comma Separ p://172.19.100.47	rated Values File							
			inefax do with this file?								
		Open v		8							
		© Save Fi		9							
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#### Figure 4-20 Print Job Details

7. Click Export Job Log to export all active and completed print jobs to an excel spreadsheet. The same information that can be viewed on the screen is available in the exported jog log.

## **Renaming the xPrintServer Device**

As part of the initialization process, the xPrintServer device registers a Bonjour® service type (specific to Lantronix) (\_Lantronix-xps.\_tcp which uses the default device name of xPrintServer). As with any Bonjour discovery application, you can find your xPrintServer device in any Bonjour application-supported web browser using the URL: http://xPrintServer-<serial number>.local. Therefore, you would search for your xPrintServer device with http://xPrintServer-<serial number>.local. Therefore, you would search for your xPrintServer device with http://xPrintServer-<serial number>.local. as the serial number web interface would also be modified to become <new device name>.local, as the serial number portion is part of the default device name.

**Note:** All Apple devices natively include Bonjour Services. Microsoft Windows Operating Systems do not include Bonjour Service and require an installation of an application that includes Bonjour Service for Windows, such as the Apple "Bonjour Print Services for Windows" or the Apple Safari for Windows. Once Bonjour Service for Windows has been installed, the *xPrintServer print server can be discovered using the configured* <name> in the web browser, as described above.

The directions below can be used by the Admin user to rename an xPrintServer device. This is a useful function in situations where there are multiple xPrintServer devices on a network, as each device should have a unique name. Changing the xPrintServer name requires a restart to use the new xPrintServer name.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- Click the Admin tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen (see Figure 4-13).
- 3. Click the **Name** link on the left side of the page to access the **Change xPrintServer Name** page. The **Current Name** of your device displays, which by default is "xPrintServer" followed by a dash and the serial number of your xPrintServer unit (for example, xPrintServer-0080A3854E09).
- Type in the New Name (an alpha and/or numeric combination that may include the and \_ characters).

xPrintSer	ver®				LA	NTRONI <mark>X</mark>
Home	Admin	Jobs	Printers	Users	Logs	Log-Off
		Cha	nge xPrinter	Server Nam	ne	
Admin Google Account		Current Name	xPrintServer-00204A	9D0264		
Time-zone		New Name				
Firmware						
Name			Can only contain letters	s, numbers and the sym	bols "-" and "_"	
Factory Reset						
Restart		Chang	ing the Name v	vill restart the	unit	
IP Address			Change N	lame		
Security						
Diagnostic						
Active Directory						
Save/Restore						
Proxy Server						
Help						
xPrintServer is a registere	ed trademark of Lenters	in Inc. Consider © 2015	2014 Lantonix Inc. All F	linhts Reserved		www.lantronix.com

#### Figure 4-21 Changing the xPrintServer Name

- 5. Click the Change Name button to submit the new name.
- 6. Click **Yes** in the confirmation pop-up to continue (or **No** to cancel action) renaming your xPrintServer device.
- 7. Wait for the xPrintServer device to reboot at which point the renaming of your unit is complete.

Note: The browser's URL will need to be updated to reflect a new xPrintServer device name.

## **Resetting the xPrintServer Unit to Factory Defaults**

Resetting the xPrintServer unit to factory default wipes out all configuration information and resets the xPrintServer configuration parameters to the original factory settings. There are two ways to reset the xPrintServer print server to factory default settings: through the user interface or utilizing the reset button on the xPrintServer device.

### Via the User Interface

The Admin user may utilize these directions to reset the xPrintServer print server to factory default settings through the **Reset Unit to Factory Defaults** page of the xPrintServer user interface. A device restart automatically follows a reset.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- 2. Click the **Admin** tab to access the **Admin** menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*).
- 3. Click the **Factory Reset** link on the left side of the page to access the **Reset Unit to Factory Defaults** page.
- 4. Click the Reset to Factory Defaults button.
- 5. Click **Yes** in the confirmation pop-up that appears (or **No** to cancel this action). The unit automatically restarts in order to complete resetting current configurations to factory defaults.
- 6. Wait for the xPrintServer device to reboot. When the reset to factory default process is complete and the device restarted, you are brought back to *System Status on the Home Page*. Authentication (*Logging In*) is required to access the xPrintServer user interface.
- 7. If using Google Cloud Print, verify all printers have been de-registered by going into the Google Cloud Print management page and deleting any remaining printers from the previous xPrintServer device registration.

### Via the Hardware Reset Button

Use these directions to reset the xPrintServer unit to factory default settings utilizing the **Reset** button on the bottom of the xPrintServer device. This button is accessible through a hole in the case.

To reset the unit to factory defaults, perform the following steps:

- Place the end of a paperclip or similar object into the reset opening (pin-sized hole on the bottom of the device) and press for a minimum of 10 seconds. Within the 10 seconds, the "X" Status LED on top of the xPrintServer print server displays a solid orange light to indicate the device is rebooting (see *Table 2-1*) after which it begins to blink.
- 2. Remove the paperclip to release the button. This procedure restores factory default settings to the configuration and reboots the unit.
- 3. If using Google Cloud Print, also verify all printers have been de-registered by going into the Google Cloud Print management page and deleting any remaining printers from the previous xPrintServer device registration.

## **Restarting the xPrintServer Device**

The Admin user may utilize these directions to restart the xPrintServer device through the xPrintServer user interface and without changing any settings.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the **Admin** tab to access the **Admin** menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*).
- 3. Click the Restart link on the left side of the page to access the Restart Unit page.
- 4. Click the **Restart Unit** button.
- 5. Click Yes in the confirmation pop-up that appears (or No to cancel this action).
- 6. Wait for the xPrintServer device to reboot. The xPrintServer device restarts, bringing you back to *System Status on the Home Page*. Authentication (*Logging In*) is required to access the xPrintServer user interface.

## **Viewing Logs**

The Admin user may utilize these directions to view logs. The xPrintServer user interface provides logs for all diagnostic and access messages. Follow the directions in *Viewing and Exporting Print Jobs* to export logs, as needed.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- 2. Click the Logs tab to access the Logs page. A list of all Diagnostic logs appears by default.
- 3. Click the Access link to the left to view only access logs.
- 4. Click the **Diagnostic** link to the left to view only diagnostic logs.
- 5. Click the **Job Status** link to the left to view only job status logs.
- 6. Utilize *Navigation* as necessary in situations where there are multiple pages of logs.

**Note:** The number of logs on the bottom of the page updates each time the **Diagnostic** or **Access** link on the left is clicked.

Home		Admin Jo	obs Printers Users	Logs Log-Off
	L	Date/Time	Diagnostic Log	
	D	29/May/2015:16:00:12	cupsdAuthorize: No authentication data provided.	
Logs	D	29/May/2015:16:00:12	cupsdReadClient: 21 1.1 Get-Jobs 1	
Diagnostic	D	29/May/2015:16:00:12	cupsReadClient(): Calling cupsdProcessIPPRequest()	
Access	D	29/May/2015:16:00:12	Get-Jobs ipp://localhost/	
Job Status	D	29/May/2015:16:00:12	Returning IPP successful-ok for Get-Jobs (ipp://localhost/) from	n localhost
	D	29/May/2015:16:00:12	Script header: Content-Type: text/plain	
ткар	D	29/May/2015:16:00:12	Script header:	
	D	29/May/2015:16:00:12	cupsdReadClient: 21 WAITING Closing on EOF	
	D	29/May/2015:16:00:12	cupsdCloseClient:	
	D	29/May/2015:16:00:12	PID 2026 (/usr/lib/cups/cgi-bin/ips.cgi) exited with no errors.	
	D	29/May/2015:16:00:12	cupsdSetBusyState: Not busy	
	D	29/May/2015:16:00:16	cupsdReadClient: 16 POST / HTTP/1.1	
	D	29/May/2015:16:00:16	cupsdSetBusyState: Active clients	
	D	29/May/2015:16:00:16	cupsdAuthorize: No authentication data provided.	
	D	29/May/2015:16:00:16	cupsdReadClient: 16 1.1 Get-Jobs 1	
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Figure 4-22 Logs

### **Printer Drivers**

The Printer Driver Download page provides two ways to download a printer driver: from the Internet or from a USB flash drive. This page also provides a method to export printer drivers onto a USB flash drive for downloading onto other xPrintServer print servers as well as a way to preload drivers onto the xPrintServer unit.

### **Downloading Printer Drivers from the Internet**

The Admin user may utilize these directions to download printer drivers from the xPrintServer device driver base in the cloud. The downloaded drivers will be saved in the xPrintServer device's flash memory and will be used as a local cache of drivers for printer provisioning. This is useful when using the xPrintServer device in locations that don't have Internet access, and consequently, no access to the xPrintServer unit's printer driver base in the cloud.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- Click the Printers tab to access the Printers > List page (see Figure 4-9). All printers configured to the xPrintServer device are listed here.
- 3. Click the **Printer Drivers** link to get to the Printer Driver Download page. A list of drivers previously downloaded appears ordered by make and model under the **Loaded Drivers** tab.

4. Click the Drivers List tab. A drop-down Manufacturer menu displays on the screen.

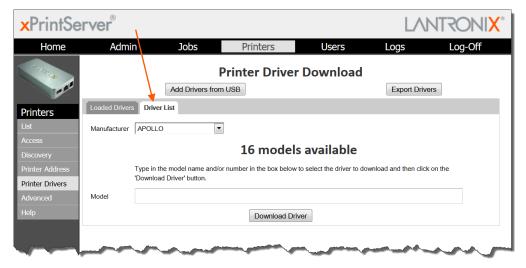


Figure 4-23 Drivers List Tab

- 5. Select the desired printer **Manufacturer** from the drop-down menu. The number of printer models associated with that manufacturer and available for download displays on the screen.
- 6. Enter the printer **Model** name. Once you begin typing the model name, models beginning with the character(s) you type appears on the screen.
- 7. Select the correct model from the list of models.
- 8. Click **Download Driver** to save a copy of the printer driver from the local driver cache stored in the xPrintServer device. You are notified when the driver has been downloaded or if there was an error encountered. Successfully downloaded drivers appear in the **Loaded Drivers** tab.
- 9. Click OK.

### **Exporting Printer Drivers**

The Admin user may utilize these directions to export printer drivers from the xPrintServer print server. Once exported, you may move the printer driver onto a USB flash drive. This is useful in situations where you may wish to use the printer driver on other xPrintServer devices.

**Note:** The xPrintServer device only reads data from USB flash drives that are connected to its USB port. It does not write to USB flash drives that are connected to its USB port. The file name of the printer driver must be **printerdrivers.bin**. Also, the xPrintServer print server only recognizes USB flash drives formatted with a FAT file system.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- Click the Printers tab to access the Printers > List page (see Figure 4-9). All printers configured to the xPrintServer device are listed here.
- 3. Click the **Printer Drivers** link to get to the **Printer Driver Download** page. A list of drivers previously downloaded appear ordered by make and model under the **Loaded Drivers** tab.

*Note:* You must have already downloaded printer drivers under the *Loaded Drivers* tab.

- 4. Insert a USB flash drive to the computer from where you are browsing. The USB flash is where the printer driver files are to be moved, once saved.
- 5. Click **Export Drivers**. A pop-up window appears.
- 6. Click **OK** to save the file directly to your PC's local file system. You are notified when the driver has been exported or if there was an error encountered.
- 7. Move the exported file onto the USB flash drive (from step 4 above) if you wish to upload the driver onto another xPrintServer device.

xPrintSe	rver®			Λ		roni <mark>x</mark> °
Home	Admin	Jobs	Printers	Users	Logs	Log-Off
		Add Drivers from	Printer Drive	r Download	Export Drivers	
Printers	Loaded Drivers Drive	er List				
List		Load	ded Printer D	rivers		
Access	Make/Mode	1				
Discovery	Manufacture	er 1 Printer 1				
Printer Address	Manufactur	er 2 Printer 1				
Printer Drivers						
Advanced						
Help						

#### Figure 4-24 Export Drivers Button

### **Downloading Printer Drivers from a USB Flash Drive**

The Admin user may utilize these directions to download printer drivers from a USB flash drive. The xPrintServer unit can load supported drivers that had been previously saved to a USB flash drive. Supported drivers are drivers that were downloaded from the xPrintServer driver base in the cloud. This is useful for xPrintServer devices that are installed in sites that have no Internet access.

**Note:** The file name of the printer driver must be **printerdrivers.bin**. Also, the xPrintServer device only recognizes USB flash drives formatted with a FAT file system.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- Click the Printers tab to access the Printers > List page (see Figure 4-9). All printers configured to the xPrintServer print server are listed here.

xPrintSe	rver®				LAN	roni <mark>x</mark> °
Home	Admin	Jobs	Printers	Users	Logs	Log-Off
		Add Drivers from	Printer Drive	r Download	Export Drivers	
Printers	Loaded Drivers Drive	er List				
List		Load	ded Printer D	)rivers		
Access	Make/Mode	1				
Discovery	Manufacture	r 1 Printer 1				
Printer Address	Manufactur	er 2 Printer 1				
Printer Drivers						
Advanced						
Help					internet	_

#### Figure 4-25 Loaded Drivers Tab

- 3. Click the **Printer Drivers** link to get to the **Printer Driver Download** page. A list of drivers previously downloaded appear ordered by make and model under the **Loaded Drivers** tab.
- 4. Insert USB flash drive that has the exported printer driver files (from previous section, *Exporting Printer Drivers*) into the xPrintServer unit's USB port.
- 5. Click the **Add Drivers from USB** button. The xPrintServer print server isgin an automatic search and download of drivers on the USB flash drive. You are notified when the driver has been downloaded or if there was an error encountered.
- 6. Click OK.

## **Managing Active Directory**

The Admin User may utilize the following directions to configure and enable xPrintServer print server to use MS Active Directory Services for user remote authentication. If enabled, the xPrintServer device uses the MS Active Directory along with xPrintServer local user database for xPrintServer printer access authentication. If not enabled, the xPrintServer unit uses only the xPrintServer local user database for xPrintServer printer access authentication. See *Printer Access Control (Protecting Printer Access)* for more information.

### **Updating Active Directory Configuration**

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- Click the Admin tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen (see Figure 4-13).
- 3. Click the **Active Directory** link to the left to access the **Active Directory Configuration** page.
- 4. Check **Enable use of Active Directory** to enable (or disable) Active Directory use and remote authorization.
  - If *enabled*, additional Active Directory configuration fields become available. Continue with remaining steps below.

**Note:** The Active Directory server must be enabled on the xPrintServer print server in order to authenticate remote users established in Active Directory.

- If *disabled*, only the **Enable use of Active Directory** checkbox option is available on the Active Directory Configuration page. Skip steps 5 – 8 below.

×PrintServe	r				LA	NTRONIX.	
Home	Admin	Jobs	Printers	Users	Logs	Log-Off	
		Act		Configurati	on		When Enable
Admin Google Account Time-zone Firmware	Active	Encrypted Connection					Directory is checked, additional fields
Name Factory Reset Restart IP Address Security Diagnostic	Server Fort : Domain Name :	Directory Configuration -					become available for configuration.
Active Directory Save/Restore Proxy Server Help			Test Savo	Reset			
xPrintServer is a registered tra	demark of Lantronix,	Inc. Copyright © 20	12-2014 Lantronix Inc, All I	Rights Reserved.		www.lantronix.com	

#### Figure 4-26 Active Directory Configuration

- 5. Modify the Active Directory Server address, as necessary.
- 6. Check Encrypted Connection to enable (or disable) encrypted connection.
- 7. Enter the Active Directory Server Port number.

- 8. Enter the **Domain Name**.
- 9. Click Save to save Active Directory settings.
- 10. Click **OK** in the confirmation pop-up.

### **Testing Remote User Authentication**

*Note:* The user name and password tested in these directions are not saved to the xPrintServer unit.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- 2. Click the **Admin** tab to access the **Admin** menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*).
- 3. Click the **Active Directory** link to the left to access the **Active Directory Configuration** page (see *Figure 4-26*).
- 4. Enter a configured remote **User Name**.
- 5. Enter the **Password** for the remote User Name.
- 6. Click the **Test** button.
- 7. Click **OK** in the confirmation pop-up.

## **Saving Configuration**

The Admin user may utilize these directions to save an xPrintServer configuration. Saving an xPrintServer configuration saves all settings to a file which can be backed up to a computer. Information saved includes all configurable parameters and printer driver files (which includes printer driver files downloaded during the xPrintServer auto-discovery process and those manually downloaded by the Admin user via the xPrintServer GUI). This configuration file can later be used to restore the configuration on the xPrintServer print server or to upload settings of one xPrintServer unit onto others.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the **Admin** tab to access the **Admin** menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*).
- 3. Click the Save/Restore link to the left to access the Configuration Save and Restore page.
- 4. Click Save under the Configuration Save tab. A pop-up window appears.

Home	Admin	Jobs	Printers	Users	Logs	Log-Off	
	Configuration Save	Configuration Rest	nfiguration Sa	ve and Rest	ore		
dmin ioogle Account	Consguration Save	Configuration Resa		nformation			
îme-zone îrmware			Sav	e Opening x <sup>p</sup> ri	ntServerBackup.bin		×
ame actory Reset estart P Address ecurity lagnostic ctive Directory ave/Restore avoy Server lelp				Image: Second state in the second state is a second state in the second state is a second state i	ve File		• Cancel

#### Figure 4-27 Saving Configuration

 Click OK to save the xPrintServerBackup.bin file directly to your PC (or No to cancel this action). You will be notified when the file has been exported or if there was an error encountered.

**Note:** The saved configuration file can be sent to any computer that will be used to load the configuration file into other xPrintServer devices.

- 6. Move the configuration file onto a USB flash drive if you wish to import the configuration file onto another xPrintServer device.
- 7. If using Google Cloud Print, delete and re-add your Google email account. See *Deleting and Adding a Google Email Account*.

## **Restoring Configuration**

The Admin user may utilize these directions to restore to a previously saved xPrintServer configuration. These steps can also be followed to overwrite configurations on other xPrintServer units.

**Note:** The configuration filename can include alphanumeric and special characters with the exclusion of the following: " $\langle / ? ? <>$ :" (double quotes included). Filename plus path information cannot exceed 250 characters.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- Click the Admin tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen (see Figure 4-13).
- 3. Click the **Save/Restore** link to the left to access the **Configuration Save and Restore** page.
- 4. Click the **Configuration Restore** tab.

xPrintSei	rver®				LA	NTRONI <mark>X</mark>
Home	Admin	Jobs	Printers	Users	Logs	Log-Off
		Con	figuration Sa	ve and Rest	ore	
	Configuration Save	Configuration Resto	re			
Admin Google Account			More In	formation		
Time-zone						
Firmware		Browse. No file sel				
Name			Restore Con	Iguration		
Factory Reset						
Restart						
IP Address						
Security						
Diagnostic						
Active Directory						
Save/Restore						
Proxy Server						
Help						

#### Figure 4-28 Restoring Configuration

- 5. Click Browse. A pop-up window appears.
- 6. Browse to a previously saved configuration file on your PC or a USB flash drive.
- 7. Double-click the configuration file. The name of the configuration file appears on the Configuration Save and Restore page.
- 8. Click Restore Configuration to utilize the configuration file.
- 9. Click **Yes** to confirm to overwriting the current xPrintServer configuration (or **No** if you want to cancel this action).
- 10. Click **OK** to dismiss a confirmation pop-up indicating success of the restoration. Your xPrintServer automatically reboots according to a countdown which appears on your screen.

11. If using Google Cloud Print, delete and re-add your Google email account. See *Deleting and Adding a Google Email Account*.

## **Proxy Server Configuration**

The Admin user may utilize these directions to manage the outbound Internet requests made through a proxy server. User authentication may be enabled as a prerequisite to processing any requests. Once configured and enabled, all data request for Lantronix Web Services are redirected to the configured proxy server.

*Note:* Proxy Server feature is not currently supported for Google Cloud Print.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- Click the Admin tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen (see Figure 4-13).
- 3. Click the Proxy Server link to the left to access the Proxy Configuration page.
- 4. Click the Enable Proxy Server checkbox to enable or disable the proxy server.
  - *Check* the checkbox to enable the proxy server and make additional proxy configuration fields available. In order to continue configuring the proxy server, this checkbox must be checked.
  - Uncheck the checkbox to disable the proxy server and hide proxy configuration fields.

xPrintSer	ver®				LA	NTRONIX"	
Home	Admin	Jobs	Printers	Users	Logs	Log-Off	
		📝 Enable Provy Server 🗕	Proxy Cont	figuration			When Enable Proxy Server
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Help xPrintServer is a register	ed trademark of Lar	ntronix, Inc. Copyright © 26	112-2014 Lantronix Inc., All	Rights Reserved.		www.lantronix.com	

Figure 4-29 Configuring Proxy Server

- 5. Enter the Proxy Server IP or Host name.
- 6. Enter the Proxy Server Port.
- 7. Check the **Proxy Server requires UserID and Password** checkbox to enable or disable remote authentication for proxy server requests.
  - *Check* the checkbox to enable remote authentication and make additional remote authentication configuration fields available.

- Uncheck the checkbox to disable remote authentication and hide remote authentication fields.
- 8. If Proxy Server requires UserID and Password is checked, enter a UserID and Password.
- 9. Click Save.
- 10. Click **OK** to dismiss the confirmation pop-up that appears.

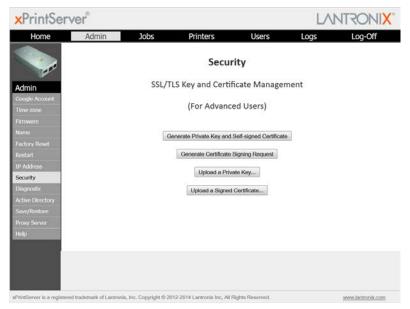
### **Testing Proxy Server Connectivity**

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the **Admin** tab to access the **Admin** menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*).
- Click the Proxy Server link to the left to access the Proxy Configuration page (see Figure 4-29).
- 4. Click Test Connectivity to internet.
- 5. Click **OK** to dismiss pop-up indicating success or failure of connection.

## Managing Security Certificates and SSL/TLS Keys

This section provides directions for generating private keys, self-signed certificates, and certificate signing requests. Directions are also available for uploading a private key or signed certificate. Only the Admin user may manage security certificates and keys through the xPrintServer user interface.

Note: SSL doesn't support private DSA keys. You must use an RSA key.



#### Figure 4-30 SSL/TLS Key and Certificate Management

### Generating a Private Key and Self-Signed Certificate

- 1. Login to the xPrintServer user interface (see Logging In.)
- 2. Click the **Admin** tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen.
- 3. Click the **Security** link on the left side of the page to reach the Security page.
- 4. Click Generate Private Key and Self-signed Certificate. After one minute, a message indicating successful generation of the key and certificate appears on the xPrintServer user interface.
- 5. If you are using a secure https connection, close and re-open the web browser to use the certificate.
- 6. If you wish to access other Security features, click Back to Main Security Page.

### **Generating a Certificate Signing Request**

*Note:* A private key needs to be generated or uploaded before performing these steps.

- 1. Login to the xPrintServer user interface (see Logging In.)
- 2. Click the **Admin** tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen.
- 3. Click the **Security** link on the left side of the page to reach the Security page.
- 4. Click Generate Certificate Signing Request.
- 5. Enter the information in the fields:
  - Country (2 letter code)
  - State or Province Name
  - Locality Name
  - Organization Name
  - Organizational Unit Name
  - Common Name
  - Email Address
  - A Challenge Password
- 6. Click Generate Certificate Signing Request. The certificate signing request generates and downloads to your PC as a xprintserver.csr file.
- 7. If you wish to access other Security features, click **Back to Main Security Page**.

### **Uploading a Private Key and Signed Certificate**

- 1. Login to the xPrintServer user interface (see Logging In.)
- 2. Click the **Admin** tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen.
- 3. Click the Security link on the left side of the page to reach the Security page.
- 4. Click Upload a Private Key...
- 5. Click **Browse...** to browse to and select a private key file. Once selected, the file name appears on your xPrintServer user interface.
- 6. Click **Upload** to upload the private key.
- Click Yes to verify overwriting existing private keys on the xPrintServer, if any. The "Uploaded Private Key Successfully" message appears on the xPrintServer user interface once the key is successfully uploaded.
- 8. Click **Back to Main Security Page** to return to the Security page listing all security options.
- 9. Click Upload a Signed Certificate...
- 10. Click **Browse...** to browse to and select the certificate.
- 11. Click the **Upload** button to upload the selected file. A confirmation window indicating success of the upload appears immediately.
- 12. Click **OK** to dismiss the confirmation window.
- 13. If you are using a secure https connection, close and re-open the web browser to use the certificate.
- 14. If you wish to access other Security features, click the Back to Main Security Page button.

# 5: Google Cloud Print

The xPrintServer Office edition device supports Google Cloud Print service for Android and Chrome technology users beginning with firmware version 5.0.0, and going forward.

Note: Proxy Server feature is not currently supported for Google Cloud Print.

## **Establishing a Google Cloud Print Connection**

After performing *Hardware Installation* Steps, follow these directions to register a Google Cloud Print connection to a new xPrintServer unit. This connection does not need to be re-established after the initial connection is made unless *Resetting the xPrintServer Unit to Factory Defaults* is performed.

**Note:** A Google account and up-to-date web browser are required for establishing a Google Cloud Print connection. Since multiple Google account logins and passwords may be stored in a browser maintaining "signed-in" status, it is recommended that you make sure to log out of all Google accounts prior to beginning these steps. One way of doing this is by using the incognito/privacy mode in a browser. This way you may select the desired Google account to be used in establishing this Google Cloud Print connection. Only one Google account can be associated with an xPrintServer unit at any time. When using the **Test GCP** or **Manage Printers** links, make sure your browser is logged into the Google account associated with the xPrintServer device. To print from more than one printer please use the Google Print Sharing feature. See Accessing Google Cloud Print Administrative Features Online. Your device (smart phone/table/PC) must be on the same wired or Wi-Fi network as your xPrintServer unit.

- Login to the Admin interface of your xPrintServer device in one of two ways below. You will
  need to access either the QR code on the QR product label or the serial product number on
  the product information label on the underside of your xPrintServer device.
  - Scan the QR code on the QR product label using your Android smartphone or tablet and click the link displayed on your QR code reader to access the xPrintServer device Admin interface where you may log in (see Figure 3-2 Redirected to Login Prompt.)

**Note:** QR code readers are available for Android smartphones and tablets at the Google Play<sup>™</sup> store. Lantronix recommends using the ZXing Barcode Scanner app, which may be found at <u>https://play.google.com/store/apps/details?id=com.google.zxing.client.android</u>.

#### 

 Type <u>http://www.findmyxps.com</u> directly into a web browser and enter the alphanumeric serial number from the *product information label*. Web browsers can be accessed on a smartphone, tablet or PC. The serial number is alphanumeric and 12 characters in length. A login window in the xPrintServer device Admin interface appears for login (see.*Figure 3-2 Redirected to Login Prompt*) 2. Click the **Quick Setup** link on the left side of the Home page. The Quick Setup page appears.

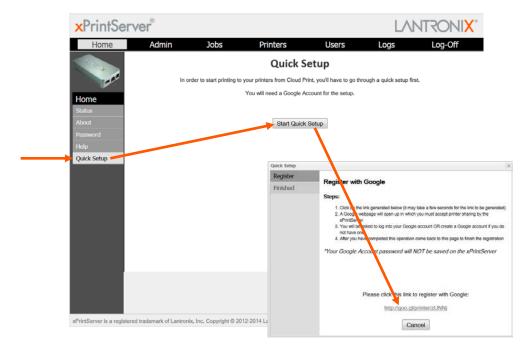
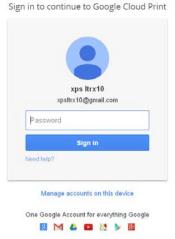


Figure 5-1 Start Quick Setup

- 3. Click **Start Quick Setup** to initiate registration with Google. A **Quick Setup** window with a unique Google registration link appears within 30 seconds.
- 4. Click the Google registration link when it appears. A Google login window appears.
- 5. Login into the Google account you wish to use to establish the Google Cloud Print connection. This account controls printer sharing with other Google accounts. Businesses may want to select a Google account for the IT department. If your browser has information about multiple Google accounts, each may be available for selection in the login window. If your browser is already logged on to a particular Google account, you can bypass this step by directly connecting through that account.



Google

One account. All of Google.

- 6. Confirmation of your registration with Google Cloud Print appears upon login.
- 7. Click Finish printer registration.

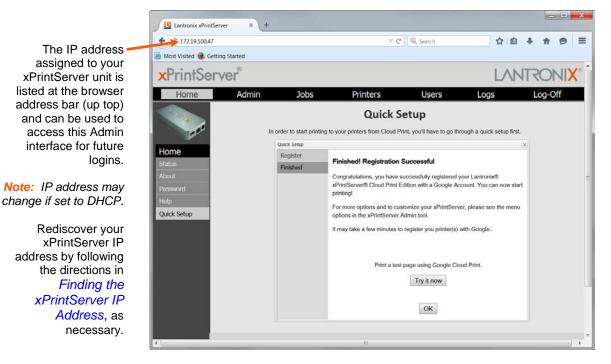
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account xpsitrx10@gmail.com									
	Google cloud print	Printer confirmation							
Finish printer registration	Google cloud print	Printer confirmation							

Figure 5-2 Google Cloud Print Printer Confirmation

- Return to the Quick Setup page at the xPrintServer device Admin interface. You can see "Finished! Registration Successful" message on the Quick Setup window. From here you may:
  - Click **Try it now** to initiate printing a test page and to explore. The xPrintServer web interface provides a wide range of *printer management features* and there are also some management capabilities on the *Google Cloud Print management page*.

*Note:* For certain multifunction printer models, the user authentication settings need to be turned off in order to print test pages.

 Click OK to finish registration and to return to the xPrintServer device Admin interface (see System Status on the Home Page.)



#### Figure 5-3 Quick Setup Complete

## Installing the Google Cloud Print App on Android Devices

Android devices such as cell phones and tablets require the installation of the Google Cloud Print app (created by Google) to print using Google Cloud Print web printing web printing service. The Google Cloud Print app is available free of charge through the Google Play store.

**Note:** To enable printing on other Android devices, be sure that the Google Cloud Print app is installed on those devices. To allow other users to print, be sure to add the Google accounts to the Google Cloud Print web print service. See Accessing Google Cloud Print Administrative Features Online. The Google Chrome operating systems and Chromebook notebook computers do not require the Google Cloud Print app to be able to print via the xPrintServer Office Edition device.

- 1. Get the Google Cloud Print app in one of two ways:
  - Scan the QR code on your Android device with a QR reader.
     A QR code reader app can be downloaded for free from the Google
     Play store (most QR code readers work, however Barcode Scanner
     by the ZXing team QR code reader is recommended.)



OR

- Search for the Google Cloud Print app at the Google Play Store. Find the Google Play store icon on your Android device to access the Google Play store. Search for the Google Cloud Print app using the Google Play store search tool.



- 2. Download the Google Cloud Print app to your Android device.
- 3. Repeat steps 1 and 2 to install the Google Cloud Print app on all Android devices from which you wish to print.
- 4. Be sure to share printers with other Google account users

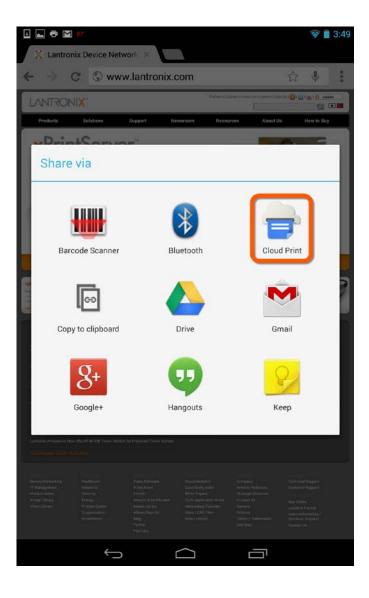
## **Printing from an Android-based Phone or Tablet**

Many apps (e.g., web browser, photo, email and productivity) for Android phones and tablets provide the ability to print through the Google Cloud Print web printing service. To print, the Android device needs to be online but does not need to be on the same network as the xPrintServer unit. In order to use Google Cloud Print, you must have and be logged into a Google account. Combined with the Lantronix xPrintServer Office Edition device, you can print to your existing printers (see <u>www.Lantronix.com</u> for compatible printers). Below are instructions for a typical scenario for printing from an Android device. Be sure that the Google Cloud Print app is installed on the Android device and that the Google account of the device's user has been added to the Google Cloud Print utility. See Accessing Google Cloud Print Administrative Features Online

- 1. Make sure you have completed *Installing the Google Cloud Print App on Android Devices*.
- 2. Open the app you wish to use.
- Click the i (options) button on the top right. A drop-down menu appears.

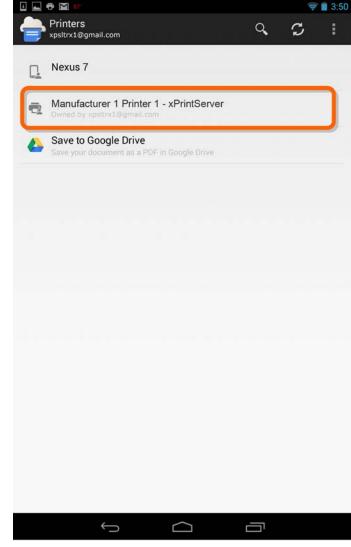
4. Select **Share...** from drop-down menu.

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5. Select **Cloud Print**. A printer list appears.

- 6. Select a printer from the printer list. The number of printers you see varies depending on how many printers the xPrintServer device auto-discovered and set-up on your network.
- Click the (refresh) icon as necessary to refresh this printer list.



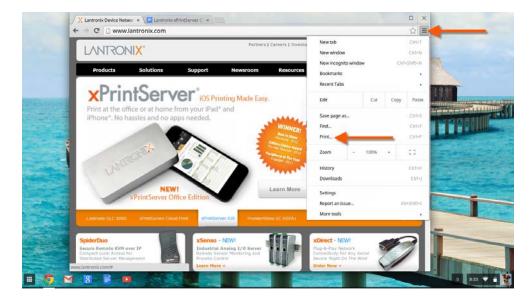
8. From the Print Preview page, select the ▶(share action) icon to send the print job to the printer. You may see additional print options available for modification on this page depending on the printer model.

http://v	r preview www.lantronix.con facturer 1 Print by xpsttx/l@gmail	er 1 - xPrint	Server	Settings	<b>&gt;</b>	3:52
Orientation: Media size:		4				
Copies:	1					
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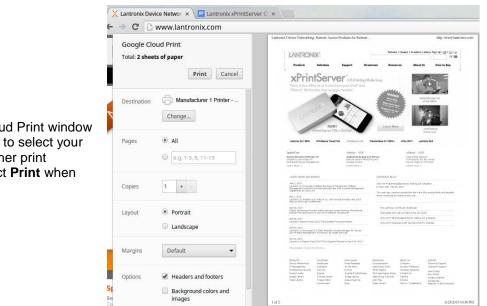
### **Printing from Chrome OS and Chromebook Devices**

Many apps (e.g., web browser, photo, email and productivity) for Chromebook notebook computers provide the ability to print through Google Cloud Print web printing service. To print, the Chrome OS device needs to be online but does not need to be on the same network as the xPrintServer unit. In order to use Google Cloud Print, you must have and be logged into a Google account. Combined with Lantronix xPrintServer Office Edition print server, your Chrome OS and Chromebook devices can print to your existing printers (see <a href="http://www.lantronix.com/xprintserver-supported-printers">http://www.lantronix.com/xprintserver-supported-printers</a> for compatible printers) without installing the Google Cloud Print app. Below are instructions for a typical scenario for printing from a Chromebook device.

1. Select the = (options) button on top right to reveal a drop-down menu.



2. Select **Print...** from drop-down menu.



3. A Google Cloud Print window opens for you to select your printer and other print options. Select **Print** when ready to print.

### **Deleting and Adding a Google Email Account**

Use these directions to delete a Google email account and to re-add it. These steps are required after either *Saving Configuration* or *Restoring Configuration*.

**Note:** Since multiple Google account logins and passwords may be stored in a browser maintaining "signed-in" status, it is recommended that you log out of all Google accounts prior to beginning these steps. This ensures that you select the desired Google account to be used in establishing this Google Cloud Print connection. In order to be able to see printers on an xPrintServer unit, a user must be only logged onto the Google account associated with the xPrintServer unit within the same browser. Also, it may be necessary to delete all cookies if switching between Google accounts after logging into a Google account associated with an xPrintServer unit.

- 1. Login to the xPrintServer user interface (see Logging In.)
- 2. Click the **Admin** tab to access the **Admin** menu. A list of all available configuration options appears to the left of the screen.
- 3. Click the **Google Account** link to the left to access the **Google Account** page.
- 4. Click the existing Google email account to be deleted.

Home       Admin       Jobs       Printers       Users       Logs       Log-Off         Admin       Google Account	xPrintSe	1					NTRONIX
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iave/Restore Youxy Server	Nagnostic						
Yraxy Server							
	Help						

Figure 5-4 Google Account

- 5. Click the icon to the right of the account to delete it.
- 6. Click Yes in the confirmation window which appears.

Question		×
?	Remove saved account for xpsltrx1@gmail.com? NOTE: All xPrintServer printers will be unregistered from the account.	
	Yes No	

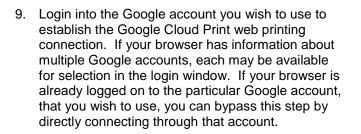
After a few seconds (amount of time depends on the number of printers deregistering), the Google email account is deleted and the following window appears:

Information		×
•	Account has been removed from the xPrintServer	
	ОК	

7. Click Add Google Account. You are prompted to register with Google in a Quick Setup window that appears with a unique Google registration link.

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xriniser	ver				L/V	<b>XINOSTI</b>
Home	Admin	Jobs	Printers	Users	Logs	Log-Off
	Google Account		Google	Account		
Admin			No Cloud Printing	g Account Defined		
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Active Directory		"You	r Google Account password	will NOT be saved on i	the xPrintServer	
Save/Restore						
Proxy Server						
Help						
			Please click this	link to register with Goo	ogle:	
			http://g	oo.gl/printer/TF15D		
				Cancel		
				Records and the second second		
PrintServer is a register	ed trademark of Lantronix	, Inc. Copyright © 2	012-2014 Lantronix Inc., All F	Rights Reserved.		www.lantronix.com

8. Click the Google registration link when it appears. A Google login window appears.





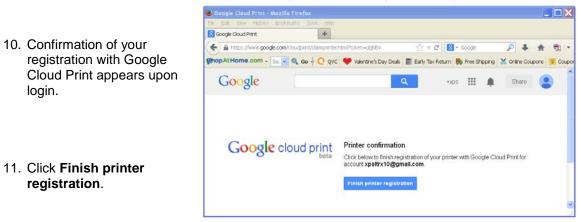


Figure 5-6 Finishing Printer Registration

### Supplementary Google Cloud Accessing Google Cloud Print Administrative Features Online

Supplementary administrative features are available for your Lantronix xPrintServer unit through the Google Cloud Print management page. Most of these features overlap with the features in the xPrintServer device's Admin interface described, however, Google Cloud Print's Sharing feature provides an especially useful function of allowing you to share specific printers with anyone with internet access. The directions are provided below. A list of available Google Cloud Print administrative features are listed and keyed with *Figure 5-7*. Refer to <a href="https://support.google.com/cloudprint/">https://support.google.com/cloudprint/</a> for detailed information about the Google Cloud Print service.

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To help protect your security, Inter	et Explorer has blocked this website from displaying content with security certificate errors. Click here for a	options ×
Google		🔍 xps 🏭 🗘 Share 🙎
Cloud Print (beta)	Delete Details Share Show Print Jobs Rename C	1-10 of 49 < >
PRINT	Manufacturer 2 Printer 5 series - xPrintServer Owned by me	
Print Jobs	Manufacturer 2 Printer 5 series 2 - xPrintServer Owned by me	
Printers	Manufacturer 3 Printer_DN series - xPrintServer Ouned by me	Google Cloud Print
Google Cloud Print Home	Manufacturer 3 Printer_DN series 2 - xPrintServ Owned by me	Administrative Option
Add a Cloud-Ready Printer	Manufacturer 1 Printer 5 - xPrintServer Owned by me	1. Delete a specific printer
Add a Classic Printer	Manufacturer 4 Printer 2 - xPrintServer Owned by me	· · ·
	Manufacturer S Printer 8 - xPrintServer Ormed by me	2. View printer details
	Manufacturer 7 Printer 3SN - xPrintServer Owned by me	3. Share a specific printer
	Manufacturer 7 Printer 3XN - xPrintSorver Owned by me	<ol><li>View printer-specific print jobs</li></ol>
	Fax Owned by me	5. Rename your xPrintServer un
	© Google Terms of Service Privacy Policy Pre-	6. Print
10		7. View all printers or print jobs
		8. Visit Google Cloud Print Home
		9. Add an additional printer

#### Figure 5-7 Google Cloud Print Administrative Features

### Accessing Google Cloud Print Administrative Features Online

- 1. Make sure you are logged into the Google account registered to the xPrintServer unit. Reference *Establishing a Google Cloud Print Connection* as necessary.
- 2. Go to <a href="https://www.google.com/cloudprint#printers">https://www.google.com/cloudprint#printers</a> to access the Google Cloud Print management page.

**Note:** The Google Cloud Print management page appears only when you are logged into the Google account registered to the xPrintServer unit, within the same browser.

### Sharing a Printer through Google Cloud Print Service

**Note:** This features supplements the xPrintServer device Admin interface's Sharing a Printer and Hiding a Printer capability.

- 1. Click on a specific printer to be shared.
- 2. Click Share to access the share settings window for this printer.
- 3. Click Change to access share options.
- 4. Define the access for this printer:
  - Click Anyone with the link has access to the printer; or
  - Click **Private** to specify individuals allowed access.
- 5. Click **Save**. You are brought back to the printer share settings page.
- 6. Finish configuring your share settings depending on your choice of action in step 4 above:
  - If you selected **Anyone with the link**, copy the entire printer URL within the **Link to share** field and click **Close** (you may now share the copied link to anyone with internet access); or
  - If you selected **Private**, enter the individual emails and groups allowed access and click **Share**.

# 6: Updating Firmware

The Admin user may use one of two methods to update firmware through the **Admin > Firmware** page. Clicking one of the two buttons allows firmware to be uploaded directly from the Lantronix Web services website or from a USB flash drive.

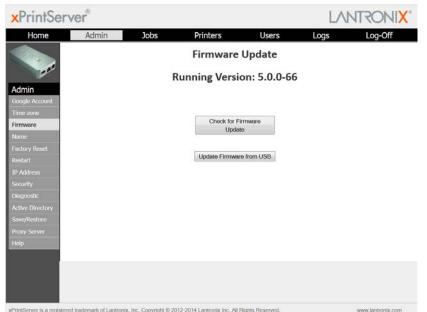


Figure 6-1 Firmware Update Options

### Updating Firmware via the Lantronix Web Services Website

Note: Internet access is required for firmware updates.

This chapter provides directions for updating firmware, which may be necessary from time to time. Only the Admin user may perform a firmware update through the xPrintServer user interface.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- 2. Click the **Admin** tab to access the **Admin** menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*).
- 3. Click the **Firmware** link on the left side of the page. The firmware you are currently running displays.
- 4. Click the **Check for Firmware Update** button to check if a firmware update is available at this time. After a few seconds, you will receive one of two messages:
  - "Firmware update is available" indicating you may proceed to step 5.
  - "You are running the latest version of the firmware" indicating no firmware update is necessary at this time.

*Note:* If the **Check for Firmware Update** button is disabled, this indicates that Internet connectivity is not available.

- 5. Click Upgrade Firmware.
- 6. Click **Yes** in the confirmation pop-up that appears. Wait a few minutes while firmware upgrades. When the upgrade is complete, the xPrintServer device restarts, bringing you back to *System Status on the Home Page*. The list of discovered printers, created users and other custom configuration settings remain unchanged across firmware updates.

*Note:* It may be necessary to close and reopen certain web browsers after a firmware upgrade.

### **Updating Firmware via a Local USB Port**

The latest firmware image file can be retrieved from http://www.lantronix.com/support/downloads/.

1. Download firmware image to the root folder of the USB thumb drive.

**Note:** Do not change the firmware file name downloaded from the Lantronix website. Most USB flash drives are compatible but only FAT file systems are supported.

 Insert the USB thumb drive directly into the xPrintServer USB port. See Table 2-1 to decipher LED behavior.

**Note:** USB thumb drive must be directly inserted into the xPrintServer device and not connected through a USB hub.

- 3. Login to the xPrintServer user interface (see *Logging In*) as User Admin.
- 4. Click the **Admin** tab to access the **Admin** menu. A list of all available Admin user configuration options appears to the left of the screen (see *Figure 4-13*).
- 5. Click the **Firmware** link on the left side of the page. The firmware you are currently running displays.
- 6. Click the **Update Firmware from USB** button to check if a firmware update is available at this time. After a few seconds, you will receive one of two messages:
  - "Firmware update is available..." indicates you may proceed to step 7.
  - "You are running the latest version of the firmware" indicates no firmware update is necessary at this time.
- 7. Click Upgrade Firmware.
- 8. Click **Yes** in the confirmation pop-up that appears. Wait a few minutes while firmware upgrades. When the upgrade is complete, the xPrintServer device restarts, bringing you back to *System Status on the Home Page*. The list of discovered printers, created users and other custom configuration settings remain unchanged across firmware updates.

*Note:* It may be necessary to close and reopen certain web browsers after a firmware upgrade.

# 7: Advanced Options

*Note:* The advanced options on this page should only be accessed from a desktop computer and not from a mobile device like a tablet or smart phone.

Various advanced options available for your xPrintServer device should only be utilized if you are instructed to do so by Lantronix Technical Support. These include the following:

- Manually adding a printer
- Modifying advanced printer options
- Restarting the printer publisher

The other advanced options available under **Printers > Advanced** may be modified without instruction from Lantronix Technical Support.

- Modifying USB time-out (in seconds)
- Modifying the NTP Server address
- Disabling Internet Access

xPrintSer	ver®				LA	NTRONI <mark>X</mark> °
Home	Admin	Jobs	Printers	Users	Logs	Log-Off
Home Printers List Access Discovery Printer Address Printer Drivers Advanced Help	Only s	elect these o	Advanced options if instruc re not recommer Advanced Pr Manually A Restart Printe	Options ted to do so by aded to be perfo int Options dd Printer ar Publisher Seconds Save	Lantronix Sup	oport
			012-2014 Lantronix Inc. Al			www.lantronbc.com

#### **Figure 7-1 Advanced Options**

### **Modifying USB Time-out**

The xPrintServer device includes a time-out feature which stops attempts to make a connection after a set number of seconds. The default USB time-out is set at 60 seconds and can be modified under **Printers > Advanced**.

- 1. Login to the xPrintServer user interface (see *Logging In*) as Admin user.
- Click the Printers tab to access the Printers > List page (see Figure 4-9). A list of configured printers on the network are listed here.
- 3. Click the **Advanced** link to the left of the Printers page.
- 4. Enter a new value in the **USB Time-out** \_\_\_\_\_ **Seconds** field. 60 seconds is the default value. You may set a value as low as 30 seconds. Though there is no upper limit, it is not recommended that you set the range higher than 120 seconds.
- 5. Click **Save** to save this setting.

### **Modifying NTP Server Address**

The xPrintServer device includes a place to modify the NTP server address, which is used to maintain the system time. The default NTP server, pool.ntp.org, can be modified to a different address under **Printers > Advanced**.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- Click the Printers tab to access the Printers > List page (see Figure 4-9). A list of configured printers on the network are listed here.
- 3. Click the **Advanced** link to the left of the Printers page.
- 4. Enter a new NTP Server ip address or hostname (pool.ntp.org is the default).
- 5. Click **Save** to save this setting.

### **Disabling Internet Access**

The xPrintServer device is connected to the Internet by default in order to carry out specific functions requiring Internet connection, including searching for the latest firmware and printer drivers online. However, Internet access may be disabled (and re-enabled) using these directions.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- Click the Printers tab to access the Printers > List page (see Figure 4-9). A list of configured printers on the network are listed here.
- 3. Click the **Advanced** link to the left of the Printers page.
- 4. Check the **Disable Internet Access** checkbox, as desired.
  - **Checking the box** disables the xPrintServer device from making connection to the Internet.
  - **Unchecking the box** enables the xPrintServer print server to make a connection to the Internet. The xPrintServer device Internet connection is enabled by default.

# 8: Technical Specifications

Basic device information is provided in this chapter.

#### Table 8-1 Technical Specifications

Category	Description
Power Input	5V DC via supplied wall plug Normal Power Usage: ~1 Watt
Network Interface	1 RJ45 10Base-T/100Base-TX Ethernet port
USB Port	1 USB Port
Dimensions	11.43 x 5.95 x 2.32 cm (4.5 x 2.34 x .91 in)
Weight	19g ( .4 lbs)
Temperature	Operating range: 0° to 55°C Storage range: -40° to 70°C
Relative Humidity	Operating 0% to 90% non-condensing
Case	Silver plastic case.
Protocols Supported	SNMP JetDirect (AppSocket) LPD LPR IPP
Management	HTTP (HTML/browser-based) HTTPS
System Software	AirPrint Zeroconf Microsoft Internet Explorer, Version 8 and 9 Firefox Version 7 Safari Version 5 Chrome Version 16
LEDs	<ul><li>(1) Status LED</li><li>(2) Ethernet LEDs</li></ul>

# A: Technical Support

This chapter provides directions and contact information for getting live Technical Support for your xPrintServer device. The xPrintServer user interface provides an easy way for you to directly send helpful diagnostic information to Lantronix. Calling Technical Support after they have received this information helps them better and more quickly assist you.

### **Diagnostic Support**

The Admin user may follow the directions below to send diagnostic support information about your xPrintServer print server to the Lantronix Technical Support before calling for assistance.

*Note:* Downloading diagnostic information is not supported for iOS devices.

- 1. Login to the xPrintServer user interface (see Logging In) as Admin user.
- Click the Admin tab to access the Admin menu. A list of all available Admin user configuration options appears to the left of the screen (see Figure 4-13).
- 3. Click the **Diagnostic** link on the left side of the page.
- 4. Select a method to send diagnostic information:
  - a) To send information directly to Lantronix from the xPrintServer device's Admin interface:
    - Click Send Diagnostic Information
    - Click **OK** in the confirmation pop-up. A progress bar indicating the amount of time remaining for diagnostic information to be sent appears on your screen.
    - Please wait for confirmation that diagnostic information is sent before contacting Lantronix Technical Support.
  - b) To download diagnostic information to your PC to email to Lantronix Technical support:
    - Click Download Diagnostic Info.
    - Wait for diagnostic information to be generated according to a progress bar that appears on your screen..
    - Click **OK** to immediately download the generated information to your hard drive.
    - Email the downloaded file to Lantronix Technical Support.

### Lantronix Technical Support

Lantronix Technical Support offices are located worldwide. Contact your office at <u>http://www.lantronix.com/about/contact.html</u>. When you report a problem, please provide the following information:

- Your name, company name, address, and phone number
- Lantronix model number and serial number/MAC address
- Firmware version
- Description of the problem including the status of the unit when the problem occurred (please try to include information on user and network activity at the time of the problem)

# **B:** Troubleshooting

Some of the errors encountered setting up or using the Lantronix xPrintServer print server are addressed in this appendix. When troubleshooting, always ensure that the physical connections (power cable, network cable) are secure. When troubleshooting the following problems, make sure that the xPrintServer device is powered up and connected to a good network connection.

### **Problems and Error Messages**

Problem/Message	Possible Solution		
LED lights display correctly but printer does not print job.	<ul> <li>Make sure that the network printer:</li> <li>Is powered on.</li> <li>Has a good network connection – wired or wireless. This includes proper cabling, correct IP addressing and/or Wi-Fi connection configuration settings and proper routing if going across routed network environments.</li> <li>Has adequate paper supply.</li> <li>Has adequate ink or toner supply.</li> <li>Has no paper jams.</li> <li>Consult the printer manufacturer to troubleshoot these or other printspecific technical issues.</li> </ul>		
Status LED does not display light.	Make sure that xPrintServer print server is connected securely to its power supply unit. Otherwise, try another wall outlet. Contact Technical Support if the xPrintServer status LED continues to not display light after confirming good power.		
Ethernet LED(s) are not displaying light.	Make sure that Ethernet patch cable is securely connected to both the xPrintServer Ethernet port and the Ethernet hub or switch to the network at both ends. Otherwise, swap the patch cable for another known good cable. Use a straight CAT5 (or greater) Ethernet patch cable, not a crossover Ethernet cable to connect to the network drop.		
Designated banner page is not printing with print job.	Ensure that banner configuration is enabled under <b>Set Default Options</b> on the <b>Printer &gt; Advanced</b> page.		
Network-attached printer is not displaying on the iOS device.	<ol> <li>Reboot the xPrintServer device.</li> <li>Manually run Discovery</li> </ol>		
Your device cannot print or access the xPrintServer print server.	Make sure your device is compatible. See Supported Devices.		

# C: Compliance

### **Declaration of Conformity**

#### Manufacturer's Name & Address:

Lantronix, Inc. 7535 Irvine Center Drive, Suite 100, Irvine, CA 92618 USA Tel: 800-526-8766 Tel: 949-453-3990 Fax: 949-453-3995

Product Name Model: xPrintServer® Office Edition Print Server

Conforms to the following standards or other normative documents:

#### Emissions

FCC Part 15 Class B, VCCI Class B, EN 55022, CISPR22, ICES-003

#### Safety Agency

UL, CE Mark, and C-Tick

#### **Agency Approvals**

RoHS, Reach

### **RoHS Notice**

All Lantronix products in the following families are China RoHS-compliant and free of the following hazardous substances and elements: Lead (Pb) Mercury (Hg) Polybrominated biphenyls (PBB) Cadmium (Cd) Hexavalent Chromium (Cr (VI)) Polybrominated diphenyl ethers (PBDE)

Cadmium (Cd)	<ul> <li>Hexavaler</li> </ul>	nt Chromium (Cr	(VI))	<ul> <li>Poly</li> </ul>	brominated diphenyl ethe	ers (PBDE)
Product Family Name	Toxic or	hazardous Sub	ostances and El	ements		
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
DSC	0	0	0	0	0	0
EDS	0	0	0	0	0	0
IntelliBox	0	0	0	0	0	0
MatchPort	0	0	0	0	0	0
Micro	0	0	0	0	0	0
MSS100	0	0	0	0	0	0
PremierWave	0	0	0	0	0	0
SCS	0	0	0	0	0	0
SecureBox	0	0	0	0	0	0
SLB	0	0	0	0	0	0
SLC	0	0	0	0	0	0
SLP	0	0	0	0	0	0
Spider and Spider Duo	0	0	0	0	0	0
UBox	0	0	0	0	0	0
UDS1100 and 2100	0	0	0	0	0	0
WiBox	0	0	0	0	0	0
WiPort	0	0	0	0	0	0
xDirect	0	0	0	0	0	0
xPico	0	0	0	0	0	0
XPort	0	0	0	0	0	0
XPress DR & XPress-DR+	0	0	0	0	0	0
xPrintServer	0	0	0	0	0	0
xSenso	0	0	0	0	0	0

O: toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006. X: toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.

# D: Warranty

For details on the Lantronix warranty, go to our web site at <u>http://www.lantronix.com/support/warranty/index.html</u>.

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