



Lexmark<sup>TM</sup>

# Lexmark Cloud Services

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## Administrator's Guide

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# Change history

## July 2024

Added the following information:

- **Account Management**
  - Updated information on setting up attributes and claims.
- **Print Management**
  - Updated information on Lexmark Print Management Client.

## June 2024

Added the following information:

- **Fleet Management**
  - Added information on managing filters.
  - Updated information on creating a notification.

## April 2024

Added the following information:

- **Fleet Management**
  - Added feature on updating applications and firmware for all organizations.
- **Solution Quota Manager**
  - Added information on Solution Quota Manager.

## March 2024

Added the following information:

- **Account Management**
  - Added information on configuring Microsoft Entra ID with SAML Federation.
- **Print Management**
  - Updated information on the Organizational Settings page.
- **Fleet Management**
  - Added information on assigning and enforcing conformance.
- **Analytics**
  - Added information on the Print Summary report.

## February 2024

Added the following information:

- **Fleet Management**
  - Added support for configuration versioning.
  - Added support for importing printer settings from VCC files.



## December 2023

Added the following information:

- **Fleet Management**
  - Updated information on adding applications while configuring printer settings.
  - Added information on Apps management.
- **Print Management**
  - Updated information on Direct Print

## November 2023

Added the following information:

- **Fleet Management**
  - Updated information on configuring a printer settings
- **Scan Management**
  - Updated information on scan destination
- **Translation Assistant**
  - Updated source and target languages in Translation Assistant.

## September 2023

Added the following information:

- **Account Management**
  - Configuring Azure Active Directory (AD) with OIDC Federation
- **Fleet Management**
  - If you have the Fleet Management Administrator role in all partner organizations and have child organization access, then you can update agents across multiple organizations.
  - Updated information on Policy type.
- **Print Management**
  - Added information on printing on a specific day and time
  - Added information on viewing details of a print policy
  - Updated information on Lexmark™ Print Management Client
- **Analytics**
  - Added information on the Print Outlier report

## August 2023

Added the following information:

- **Print Management**
  - The Lexmark Mobile Print application is now known as the Lexmark Print application.
- **Scan Management**
  - Box connector support
  - Update on the known limitations
- **Translation Quota**



Added the following custom roles:

- Translation Assistant Administrator
- Translation Assistant User
- Solutions Quota Administrator

Added information on the following Translation Quota cards:

- My Translation Quota Remaining
- Translation Pages Remaining
- Translation Distribution Status

## June 2023

Added the following information:

- **Fleet Management**
  - Updating applications through the Printers page
  - Failed printer registration in the Printer Eligibility Status
- **Lexmark Cloud Services Infrastructure**
  - Added URLs for North American data center and European data center

## May 2023

Added the following information:

- **Scan Management**
  - Disabling the Device Quotas application to avoid an **Invalid user** error

## March 2023

Added the following information:

- **Scan Management**
  - Changing the folder from the control panel for the scan destination
- **Print Management**
  - Configuring Direct Print
  - Using Direct Print
  - Installing Rosetta 2 for Mac with Apple silicon
- **Fleet Management**
  - Importing contacts for MPS Express
- **Mobile Enhanced Solutions**
  - Understanding Mobile Enhanced Solutions
  - Using Mobile Enhanced Solutions
- **Announcement Center**
  - Understanding the Announcement Center
  - Viewing an announcement



## January 2023

Added the following information:

- **Fleet Management**
  - Creating a notification policy for printer information
  - Understanding notification history for printer information

## December 2022

Added the following information:

- **Fleet Management**
  - Configuring the Printer Enrollment Tool settings

## October 2022

Added the following information:

- **Scan Management**
  - Accessing the Scan Management web portal
  - Configuring the Scan Management settings
  - Managing a cloud storage account
  - Managing Scan Destinations
  - Sending scan jobs using the Cloud Scan application
- **Translation Assistant**
  - Using Translation Assistant
- **Fleet Management**
  - Added information on notifications.

## July 2022

Added the following information:

- **Account Management**
  - Configuring Active Directory Federation Services (AD FS)
  - Configuring Azure AD Federation
- **Fleet Management**
  - Using MPS Express
  - Editing multiple local agents from the Local Agents tab.
- **Print Management**
  - Keeping print job file names for the reporting page
- **Analytics**
  - Using the Full Data Export report



## June 2022

Added the following information:

- **Printer Management**
  - Enabling delegate email notification

## April 2022

Added the following information:

- **Fleet Management**
  - Editing Local Agent
- **Printer Management**
  - Ubuntu support for Lexmark Print Management client.
  - Organization Settings page.
  - Creating and assigning policies.

## March 2022

Added the following information:

- **Fleet Management**
  - Refreshing printer information using Local Agent
  - Uploading Local Agent logs from the Lexmark Cloud Services portal
- **Printer Management**
  - Selecting a tray while sending a print job using Lexmark Cloud Print Management for Chrome
- **Analytics**
  - Client Version Export report

## January 2022

Added the following information:

- **Fleet Management**
  - Updating the printer firmware
  - Diagnostic events
  - Assigning tags to printers
  - Exporting application version to CSV
  - Supporting localization for Local Agent
- **Printer Management**
  - Configuring delegate expiration
  - Configuring organizational policies



## November 2021

Added the following information:

- **Printer Management**
  - Microsoft Universal Print integration with Lexmark Cloud Print Management platform
  - Print Clients tab
- **Fleet Management**
  - Supplies section
  - Meters section
  - Local Agent
- **Account management**
  - Default password requirements

## October 2021

Added the following information:

- **Printer Management**
  - Guest Print feature
  - Cloud Print Release feature
- **Fleet Management**
  - Embedded Web Server navigation for Native Agent
  - Printer Communication Status and the Fleet Agent Status cards

## July 2021

Added the following information:

- **General changes**
  - List of supported printer models for the Native Agent
  - Viewing the firmware version of unenrolled printers
- **Fleet Management**
  - Adding printers using the Native Agent
  - Pre-enrolling printers
  - Completing the printer enrollment

## May 2021

Added the following information:

- **Fleet Management**
  - Customizing the printer home screen

## April 2021

Added the following information:

- **General changes**
  - Viewing the firmware version of unenrolled printers



- **Printer Management**

- Disabling the client download page
- Enabling the print queue name for Cloud Print Management and Hybrid Print Management
- Disabling the print-and-keep feature
- Disabling the option to change the number of copies before print release
- Showing the email address for email submission

Updated the following information:

- Understanding reports
- The printer not communicating with the agent
- The printer not communicating with the Cloud Fleet Management portal after deployment

## August 2020

Added the following information:

- **General changes**

- List of supported printer models for automatic print release

- **Print Management**

- Printing jobs using automatic print release
- Viewing user quota status



# What's new

This section summarizes the new features, improvements, and other updates to Lexmark Cloud Services.

## July 2024 release

### Account Management

- For setting up attributes and claims, the navigation to initiate the process has changed. On the SAML-based Sign-on page, in the Attributes & Claims section, click **Edit** to start with. For more information, see [“Setting up attributes and claims” on page 273](#).

### Print Management

- To be able to use the LPMC version 3.4.x, make sure that you have installed Microsoft .NET Framework version 6.2 or later. For more information, see [“Installing the Lexmark Print Management Client” on page 368](#).

## June 2024 release

### Fleet Management

- On the printer listing page, you can save searches or filters. You can create, modify, and delete the saved filters. For more information, see [“Managing filter groups” on page 318](#).
- You can create a notification policy for Fleet Agents. On creating a policy, recipients are notified when the conditions of the policy are met. For more information, see [“Creating a notification policy” on page 343](#).

## April 2024 release

### Fleet Management

- Cloud Fleet Management offers remote device monitoring and management. For more information, see [“Fleet Management” on page 289](#).

### Solution Quota Manager

- Solution Quota Manager manages distribution of pages and sets quotas for organizations and users. For more information, see [“Solution Quota Manager” on page 428](#).

## March 2024 release

### Account Management

- Network administrators can configure Microsoft Entra ID for Security Assertion Markup Language (SAML) federation with the Lexmark Cloud platform. For more information, see [“Configuring Microsoft Entra ID with SAML Federation” on page 265](#).



## Fleet Management

- You can assign a configuration to a printer. Once you assign a configuration, you can check conformance, and if required, you can enforce the assigned configuration. For more information, see [“Performing configuration policy conformance and enforcement” on page 342](#).

## Print Management

- On the Organizational Settings page, you can now enable e-mail submission. For more information, see [“Configuring organizational settings” on page 354](#).

## Analytics

- You can now access the Print Summary report to understand the printing trends in your organization. The key performance indicators are also available for department and user level. The report also provides valuable insights into the printing pattern of your organization or department. For more information, see [“Understanding the Print Summary report” on page 410](#).

# February 2024 release

## Fleet Management

- In Lexmark Cloud Services, you can now use configuration versioning to ensure that only published versions are deployed, set as default, or applied as configuration policies. You can also deploy draft configurations to a single device for testing before publishing. For more information, see [“Managing configurations” on page 340](#).
- While creating a configuration, you can now import printer settings from existing VCC files. For more information, see [“Creating a configuration” on page 336](#).

# December 2023 release

## Fleet Management

- While creating a configuration, you can modify the pluggable authentication module to make Cloud Authentication the main authentication application. For more information, see [“Creating a configuration” on page 336](#).
- In Lexmark Cloud Services, you can manage all the applications installed in various enrolled printers. To access the Apps page, from the Fleet Management web portal, click **Printers** > **Apps**. For more information, see [“Managing installed applications” on page 332](#).

## Print Management

- From the Fleet Management portal, we recommend updating the Printer name (optional) field on the Printer details page. It is not mandatory to update this field. For Direct Print, if you want to change the print queue name as it appears to the end user, then enter a value in the Printer name (optional) field. If no value is entered, then the print queue appears as the default or custom prefix followed by the IP address of the printer. For more information, see [“Using Direct Print” on page 381](#).



## November 2023 release

### Fleet Management

- While creating a configuration, you can configure various printer settings. For more information, see [“Creating a configuration” on page 336](#).

### Scan Management

- You can now select Dropbox as one of the scan destinations. For more information, see [“Managing scan destinations” on page 388](#).

## September 2023 release

### Account Management

- You can now configure Azure AD federation to enable OpenID Connect (OIDC) federation with the Lexmark Cloud Services. For more information, see [“Configuring Azure Active Directory \(AD\) with OIDC Federation” on page 249](#).

### Fleet Management

- If you have the Fleet Management Administrator role in all partner organizations and have child organization access, then you can update agents across multiple organizations. For more information, see [“Updating agents for multiple organizations” on page 294](#).
- While creating a supplies notification policy, you can select several options from the Policy type. For more information, see [“Creating a notification policy” on page 343](#).

### Print Management

- In the Print Policy, you can now configure the time and date during which printing is to be allowed. You can also see the policy details by clicking a particular policy. For more information, see [“Creating and assigning print policies” on page 360](#).
- You can enable automatic updates for Lexmark Print Management Client. For more information, see [“Enabling automatic updates for Lexmark Print Management Client” on page 370](#).
- To manage Lexmark Print Management Client, you can check for updates, identify the version, and log out from the Lexmark Print Management Client. For more information, see [“Managing the Lexmark Print Management Client” on page 370](#).

### Analytics

- You can access the Print Outliers report to view information related to printing patterns in an organization. Using this report, you can also access department-level or user-level information. For more information, see [“Understanding the Print Outliers report” on page 407](#).



## August 2023 release

### Translation Assistant

- You must have available translation quota to use Translation Assistant. You must have the applicable user roles to use the Translation Quota cards and distribute or edit translation quota for users and cost centers or departments.

### Print Management

- Lexmark Mobile Print application is now known as Lexmark Print application.

## June 2023 release

### Fleet Management

- For MPS Express, the **Printer failed registration** status shows the number of printers that failed to register with Lexmark Cloud Services. For more information, see [“Printer Eligibility Status” on page 349](#).
- You can update applications through the Printers page. For more information, see [“Managing applications” on page 327](#).

### Lexmark Cloud Services Infrastructure

You can now use the following URLs for the Fleet Management and Print Management portals:

**Note:** If your network uses a firewall, then you must add these URLs to the white list.

- North American data center
  - prodlexcloudk8s239.blob.core.windows.net
  - prodlexcloudk8s19.blob.core.windows.net
- European data center
  - prodwesteulexcloudk8s54.blob.core.windows.net
  - prodwesteulexcloudk8s199.blob.core.windows.net

**Note:** For more information, see [“Printer cannot communicate with the Cloud Fleet Management portal after deployment” on page 436](#).

## May 2023 release

### Scan Management

- In a printer, the Translation Assistant and Cloud Scan application cannot coexist with the Device Quotas application. To avoid getting an error, disable or uninstall the Device Quotas application.



## March 2023 release

### Scan Management

- You can enable users to choose folder from the control panel. For more information, see [“Configuring the Scan Management settings” on page 387](#).

### Print Management

- The Direct Print feature helps to track jobs that are directly sent to Lexmark printers for users in Lexmark Cloud Services. Using Direct Print, these jobs do not go through a global queue and are not released through the Print Release application. For more information, see [“Using Direct Print” on page 381](#).
- If you are using Mac with Apple silicon, then install Rosetta 2 to make sure that LPMC for Mac works.

### Fleet Management

- For MPS Express, you can import up to 300 contacts by importing a single contact file. For more information, see [“Adding printers to MPS Express” on page 346](#).

### Mobile Enhanced Services

- Mobile Enhanced Solutions is a cloud-based solution offered by Lexmark Cloud Services. It allows you to connect to your printers and perform cloud-based tasks from your mobile device. For more information, see [“Mobile Enhanced Solutions” on page 420](#).

### Announcement Center

- The Announcement Center lets you view announcements about Lexmark Cloud Services features and other updates based on your user role. For more information, see [“Announcement Center” on page 422](#).

## January 2023 release

### Fleet Management

- You can now create notification policies based on supplies and printer information. For more information, see [“Creating a notification policy” on page 343](#).

## December 2022 release

### Fleet Management

- The Printer Enrollment Tool is configured with the default settings. In some instances, there may be differences in the customer environment that require changes to the default configuration. For more information, see [“Configuring the Printer Enrollment Tool settings” on page 302](#).



## October 2022 release

### Scan Management

Scan Management is a Lexmark Cloud service that provides a direct scan-to-cloud solution. Your organization can send scan jobs to the OneDrive and SharePoint cloud service providers securely. Scanned files are sent directly to the designated destination and do not pass or get stored in Lexmark Cloud Services.

#### Notes:

- Users must have an active Microsoft account.
- Scanned documents are limited to 20MB file size.

Using Scan Management, you can do the following:

- Access the Scan Management web portal. For more information, see [“Accessing the Scan Management web portal” on page 387](#).
- Configure the Scan Management settings. For more information, see [“Configuring the Scan Management settings” on page 387](#).
- Manage scan destinations using OneDrive, Google Drive, and SharePoint cloud storage services. For more information on scan destinations, see [“Managing scan destinations” on page 388](#).

The screenshot shows the 'Create Scan Destination' page in the Lexmark Scan Management web portal. The page has a dark header with the Lexmark logo and 'Scan Management' text. Below the header, there is a breadcrumb trail: 'Select Organization: Craig (child org of Development Org) 1 > Scan Destinations > Create Scan Destination'. The main content area is titled 'Create Scan Destination' and contains several sections:

- General**
  - Scan Destination Name:** A text input field with the placeholder 'Scan Destination Name' and a note: 'Enter a unique name for your scan destination.'
  - Description (Optional):** A larger text input field.
  - Cloud Storage Service:** A dropdown menu with the option 'Select a service'.
  - File name:** A text input field with the value 'Scanned\_From\_Lexmark\_Multifunction\_Printer'.
  - ☐ Show scan settings on the printer panel
  - ☐ Allow entering a filename from the printer panel
- Scan Settings**
  - A dropdown menu with the option 'Use default scan settings'.

At the bottom of the form, there are two buttons: 'Cancel' and 'Create Destination'.

- Send scan jobs from Lexmark printers using the Cloud Scan eSF application. For more information, see [“Sending scan jobs using the Cloud Scan application” on page 391](#).

### Translation Assistant

- The Translation Assistant web portal is a cloud solution that lets you upload a document in a source language and translate it to a target language. You can then download or e-mail the translated document. For more information on Translation Assistant Portal, see [“Translation Assistant” on page 414](#).



## Fleet Management

- You can create notification policies for toner levels of printers. Users receive an e-mail when the toner level reaches a certain percentage. For more information on notification, see [“Managing notifications” on page 343](#).



# Overview

## Understanding Lexmark Cloud Services

Lexmark Cloud Services is a fully featured and integrated cloud-based website that supports access, configuration, and management of the Print Management solution. The following web portals provide capabilities that support a complete Print Management experience:

- **Account Management**—Supports the management of users and their access to the system.
  - Assign organizational roles.
  - Manage access control and user identity.
  - Import and register user badges.
  - Configure system permissions.
- **Fleet Management**—Supports the discovery, configuration, and management of printers.
  - Initiate printer discovery and enrollment.
  - Enroll printers on the Lexmark Cloud Services website.
  - Manage and deploy configurations on printers in the Lexmark Cloud Print Management and the Lexmark Cloud Print Management Hybrid environments.
  - Configure printers to communicate with the cloud server continuously for configuration updates and apply configuration changes automatically.
  - Create tags, and then assign them to printers.
  - Customize the printer listing view.
  - Monitor the status of printer supplies and alerts.
  - Track the page counts.
  - Update the printer firmware levels.
  - Deploy applications and settings files.
  - Add files to the resource library.
  - Send notifications to the printer control panel.
  - Send email notifications for toner levels and printer information.
  - Customize a printer home screen.
- **Print Management**—Supports management of print queues, delegates, and user quotas.
  - Manage the Lexmark Cloud Print Management print queues.
  - Delegate print jobs.
  - Define and assign department, cost center, and user quotas.
  - View user quota status.
  - Configure document retention.
  - Configure organizational policies.
  - Configure print policies.
  - Manage the Lexmark Cloud Print Management Hybrid print queues.
  - Create and download the Lexmark Print Management Client installation package.
  - Download the Lexmark Cloud Print Management for Chrome extension.



- **Scan Management**—Supports management of scanning documents, scan destinations, and scan settings.
  - Configure Scan Management settings.
  - Create scan destinations using the Microsoft OneDrive, SharePoint, Google Drive™, Box, and Dropbox cloud service providers.
  - Customize scan settings for each scan destination.
- **Analytics**—Supports reporting on usage and printer activity.
  - Generate reports.
  - Export custom reports for a specific organization or user.
  - Generate a full data export that lets users customize a date range that can be monthly or up to 31 days for report generation.

This document provides instructions on how to configure, use, and troubleshoot the website.

This document is intended for partner administrators and organization administrators. For more information on the features available for users, see the *Lexmark Cloud Services User's Guide*.



# Getting started

## Accessing the Lexmark Cloud Services dashboard

**Note:** The screenshots may vary depending on the latest release.

**1** From a web browser, depending on your Lexmark Cloud Services agreement, go to either <https://na.cloud.lexmark.com> or <https://eu.cloud.lexmark.com>.


**2** Type your e-mail address and password.

**Note:** If the system is configured to have federated access, then you are redirected to the login page of your organization.

**3** Click **Log In**.

### Available options

Depending on the role or roles that are assigned to you, one or more cards appear on the Lexmark Cloud Services dashboard. These cards are links to services within the Lexmark Cloud Services web portals or to reports or other information.


To access the dashboard or open another Lexmark Cloud Services portal, click  on the upper-right corner of the page.

## Managing the dashboard

The dashboard provides quick access to the web portals and the cards that contain usage and status information. You can create and customize up to 10 dashboards, and each dashboard can contain up to 24 cards. The dashboard view is customizable. You can add, hide, move, or rename the cards.

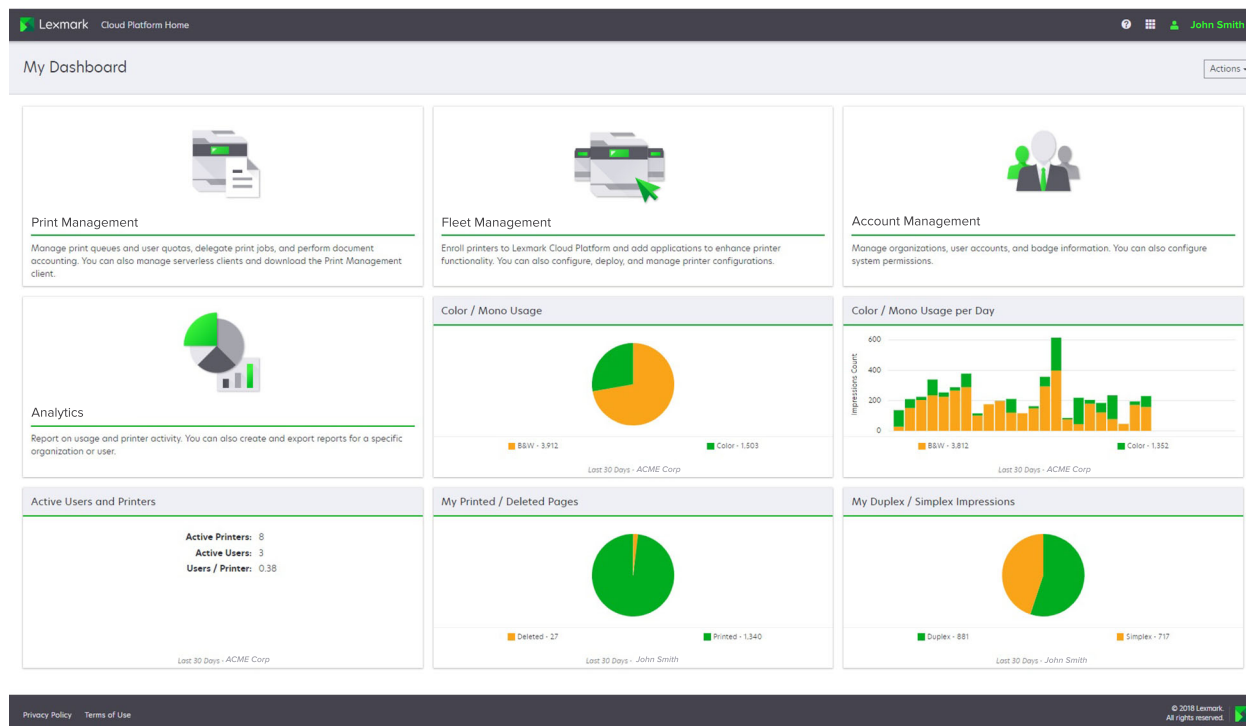
The available web portals and cards depend on your assigned role. For more information on the roles, see [“Understanding roles” on page 240](#).

The following screenshots are examples of the dashboards for the different user account roles.

**Note:** Refresh the cards by clicking . The cards on the dashboard automatically refresh after every five minutes.

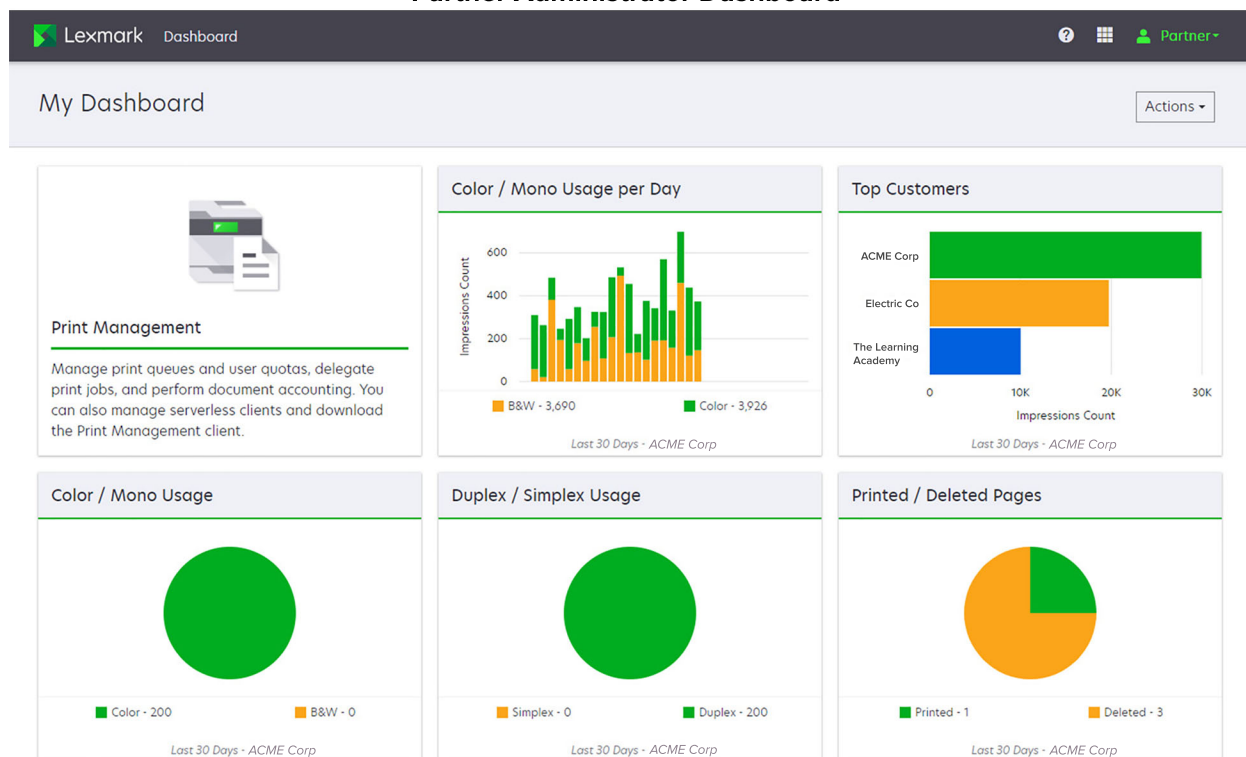


## Organization Administrator Dashboard



Organization administrators can add cards that are specific to the organization, such as active users and printers. They can also add cards showing their own print usage, Fleet Agent status, printer communication status, and fleet status.

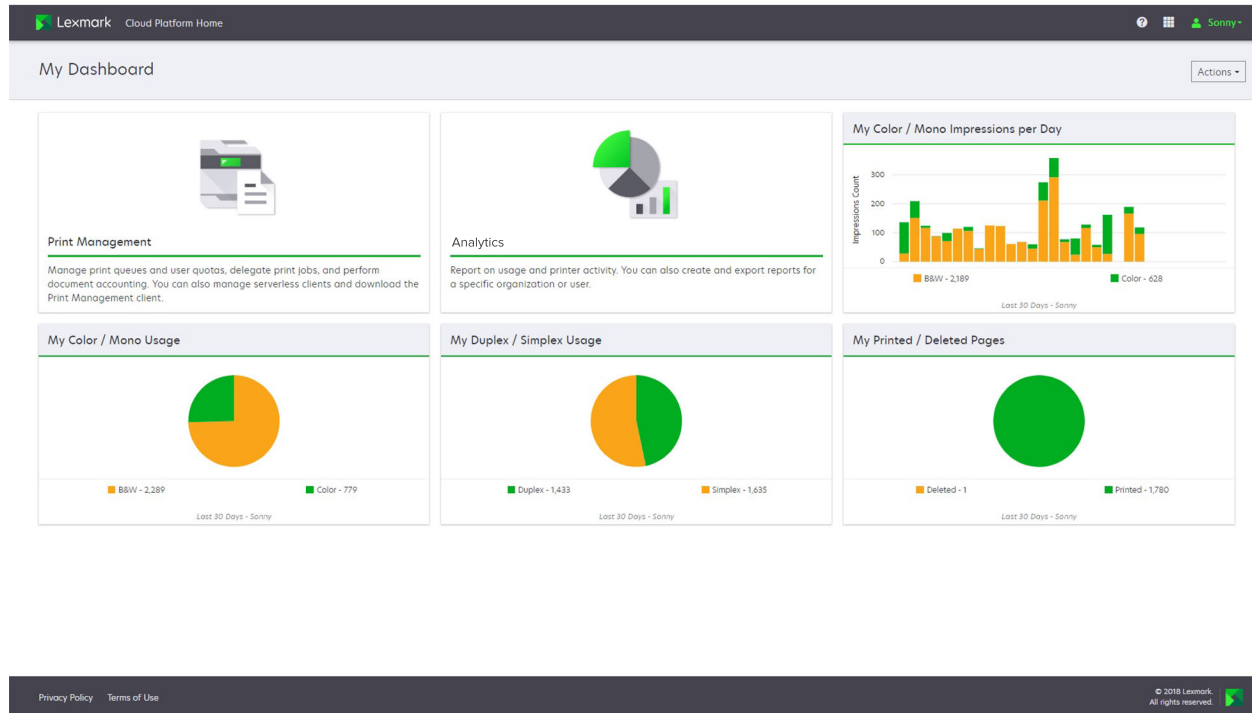
## Partner Administrator Dashboard





Partner administrators can add cards that are specific to a particular partner organization. For example, cards can show their top customers based on print usage.

## User Dashboard



Users can view their own printer usage.

## Creating a dashboard

- 1 From the dashboard, click **Actions**.
- 2 Click **Create Dashboard**.
- 3 Type a unique dashboard name.
- 4 Click **Create**.

**Note:** You can create up to 10 dashboards.

## Setting a default dashboard

- 1 From the dashboard, click the dashboard menu, and then select the dashboard that you want to set as default.
- 2 Click **Actions > Set as Default**.
- 3 Click **Set as Default**.

**Note:** You cannot delete a dashboard that is set as default.



## Renaming a dashboard

- 1 From the dashboard, click the dashboard menu, and then select the dashboard that you want to rename.
- 2 Click **Actions > Rename Dashboard**.
- 3 Type the new dashboard name.
- 4 Click **Rename**.

## Deleting a dashboard

- 1 From the dashboard, click the dashboard menu, and then select the dashboard that you want to delete.
- 2 Click **Actions > Delete Dashboard**.
- 3 Click **Delete Dashboard**.

## Managing cards

- 1 From the dashboard, click **Actions**.
- 2 Do any of the following:

### Add cards

#### Notes:

- You can add up to 24 cards.
- The dashboard view is not updated automatically when the user is given access to a new web portal. The web portal card must be added manually.

- a Click **Add Card**.
- b Select a card type.
- c Update the card name.
- d If you are a partner administrator, then select an organization.
- e Click **Add Card**.

### Edit cards

- a Click **Edit Cards**.
- b Do any of the following:
  - Add cards.
  - Edit the card properties.
  - Move cards.
  - Delete cards.

**Note:** You can switch to a different dashboard when editing cards, and all changes made in the dashboards are saved.

- c Click **Done**.

### Change the view

Mouse over the Change View menu, and then select the number of columns.



# Preparing for configuration

## Deployment readiness checklist

Before you begin, make sure that:

- ☐ You have any of the following web browsers to access the Lexmark Cloud Services website and its web portals:
  - Microsoft Edge version 125 or later
  - Mozilla Firefox version 126 or later
  - Google Chrome™ version 126 or later
  - Apple Safari version 17 or later

- ☐ You have any of the following operating systems to run or install some Lexmark Cloud Services applications:

### **Lexmark Print Management Client**

- Windows 11
- Windows 10
- macOS version 10.12 or later
- Ubuntu version 20.4 or later

**Note:** To be able to use the LPMC version 3.4.x, make sure that you have installed Microsoft .NET Framework version 6.2 or later.

### **Printer Enrollment Tool**

- Windows 11
- Windows 10
- macOS version 13 or later
- Ubuntu version 20.4 or later
- Windows server 2022

**Note:** For computers running on Windows operating systems, Windows .NET Framework v4.6.2 must be installed. To be able to use the LPMC version 3.4.x, make sure that you have installed Microsoft .NET Framework version 6.2 or later.

### **Note:**

### **Fleet Agent**

- Windows Server 2016
- Windows Server 2012 R2
- Windows 11
- Windows 10
- Ubuntu 18.04 LTS
- Debian 10
- Red Hat Enterprise Linux 8



**Note:** Fleet Agent 32-bit is no longer supported by any operating system.

**Note:** Select the agent or agents that fit the environment of your organization and the printers to manage. For more information, see [“Choosing an agent” on page 289](#).

- ☐ If you use the Fleet Agent to discover and add printers to the Fleet Management portal, then the server must have the following specifications:
- 1GHz dual-core processor
  - 2GB RAM or greater
  - 32GB storage capacity or greater

**Note:** The Fleet Agent requires 12GB of storage.

- ☐ The printers are configured properly so that they can be discovered and enrolled in the system.
- There are no unresolved errors, such as paper jams or incorrect email configuration.
  - The date and time are configured correctly.
  - The HTTP and HTTPS ports are turned on.
  - The SNMP community strings are configured correctly.
  - The printer firmware is the latest version. For information on viewing the printer firmware version, see [“Viewing the printer firmware version” on page 48](#).
  - The network and firewall or proxy settings in the printer are configured correctly.
  - The firewall or proxy settings are configured to allow printers to communicate with Lexmark Cloud Services.
  - Translation Assistant and Cloud Scan cannot coexist with Device Quotas application. Having these applications installed in the printer with Device Quotas causes an **Invalid user** error.

**Note:** To use Translation Assistant and Cloud Scan, make sure that you have disabled the Device Quotas application in your printer.

**Notes:**

- For more information, see the *Embedded Web Server Administrator's Guide* for the printer.
- For more information on resolving printer errors, see the printer *User's Guide*.

## Firewalls and proxy servers

If a firewall or proxy server is used, then the host names listed below must be added to the Allow List. All Cloud communications use port 443. Add the following host names to make sure that the printer can communicate with Cloud Fleet Management.

### Hosts for the EU data center

Function	Used by	Host
Identity Provider	All customers	idp.eu.iss.lexmark.com
Identity Provider	All customers	login.microsoftonline.com
Identity Provider	All customers	lexmarkb2ceu.b2clogin.com
Identity Provider	All customers	lexmarkb2c.b2clogin.com



Function	Used by	Host
Identity Provider	All customers	b2ccustomizationsprodsa.blob.core.windows.net
API	All customers	api.eu.iss.lexmark.com
APIS	All customers	apis.eu.iss.lexmark.com
CFM	All customers	eu.iss.lexmark.com
CFM	All customers	prod-westeu-lex-cloud-iot.azure-devices.net
CFM	Native Agent only	apis.iss.lexmark.com
CFM	Native Agent only	iss.lexmark.com
CFM	Native Agent only	prod-lex-cloud-iot.azure-devices.net
CFM	Native Agent only	global.azure-devices-provisioning.net
CFM File Storage	All customers	prodwesteulexcloudk8s54.blob.core.windows.net
CFM File Storage	All customers	prodwesteulexcloudk8s54.iss.lexmark.com
CCS	All customers	ccs.lexmark.com
CDN	All customers	ccs-cdn.lexmark.com
CPM File Storage	CPM only	prodwesteulexcloudk8s199.blob.core.windows.net
CPM File Storage	CPM only	prodwesteulexcloudk8s199.iss.lexmark.com
LPM	Legacy CPM only	lpm.eu.iss.lexmark.com

### Hosts for the U.S. data center

Function	Used by	Host
Identity Provider	All customers	idp.us.iss.lexmark.com
Identity Provider	All customers	login.microsoftonline.com
Identity Provider	All customers	lexmarkb2c.b2clogin.com
Identity Provider	All customers	b2ccustomizationsprodsa.blob.core.windows.net
API	All customers	api.us.iss.lexmark.com
APIS	All customers	apis.us.iss.lexmark.com
CFM	All customers	us.iss.lexmark.com
CFM	All customers	prod-lex-cloud-iot.azure-devices.net
CFM	Native Agent only	apis.iss.lexmark.com
CFM	Native Agent only	iss.lexmark.com
CFM	Native Agent only	global.azure-devices-provisioning.net
CFM File Storage	All customers	prodlecloudk8s239.blob.core.windows.net
CFM File Storage	All customers	prodlecloudk8s239.iss.lexmark.com
CCS	All customers	ccs.lexmark.com
CDN	All customers	ccs-cdn.lexmark.com
CPM File Storage	CPM only	prodlecloudk8s19.blob.core.windows.net



Function	Used by	Host
CPM File Storage	CPM only	prodlexcloudk8s19.iss.lexmark.com
LPM	Legacy CPM only	lpm.us.iss.lexmark.com

## Supported printer models

Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark B2338	X	✓	✓	X	X	X	X	X	X	X
Lexmark B2865	X	✓	✓	✓	X	X	X	X	X	X
Lexmark B3340	X	✓	✓	✓	X	X	X	X	X	X
Lexmark B3442	X	✓	✓	✓	X	X	X	X	X	X
Lexmark C2132 <sup>3</sup>	✓	✓	X	✓	✓	✓	✓	✓	✓	X
Lexmark C2240	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark C2325	X	✓	✓	X	X	X	X	X	X	X
Lexmark C2326	X	✓	✓	X	X	X	X	X	✓	✓
Lexmark C3224	X	✓	✓	✓	X	X	X	X	X	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

<sup>4</sup> You cannot deploy applications and configurations to these printer models using the Fleet Management web portal.

<sup>5</sup> These printers do not support automatic print release.

<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark C3326	X	✓	✓	✓	X	X	X	X	X	X
Lexmark C3426	X	✓	✓	✓	X	X	X	X	X	X
Lexmark C3426dw	X	✓	✓	X	X	X	X	X	X	X
Lexmark C4150	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark C6160	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark C748	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark C792	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark C796	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark C9235	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark C925	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark C950	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark CS310dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark CS331	X	✓	✓	✓	X	X	X	X	X	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

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Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark CS410d	X	✓	X	✓	X	X	X	X	X	X
Lexmark CS421	X	✓	✓	✓	X	X	X	X	X	X
Lexmark CS431dw	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark CS510de, CS517de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark CS521	X	✓	✓	✓	X	X	X	X	X	X
Lexmark CS622	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark CS720, CS725, CS727, CS728	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark CS748	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark CS820, CS827	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark CS921, CS923, CS927	✓	✓	✓	✓	X	✓	✓	✓	✓	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

<sup>4</sup> You cannot deploy applications and configurations to these printer models using the Fleet Management web portal.

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<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark CS921de	✓	✓	✓	✓	X	X	✓	✓	✓	X
Lexmark CS923de	✓	✓	✓	✓	X	X	✓	✓	✓	X
Lexmark CX310dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark CX331	X	✓	✓	✓	X	X	X	X	✓	X
Lexmark CX331adwe	X	✓	✓	✓	X	X	X	X	X	✓
Lexmark CX410, CX417 <sup>3</sup>	✓	✓	X	✓	X	X	X	X	X	X
Lexmark CX421	X	✓	✓	✓	X	X	X	X	X	X
Lexmark CX431	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark CX431adw	X	✓	✓	✓	X	X	X	✓	✓	✓
Lexmark CX510de, CX517de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark CX522, CX522de	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

<sup>4</sup> You cannot deploy applications and configurations to these printer models using the Fleet Management web portal.

<sup>5</sup> These printers do not support automatic print release.

<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark CX622, CX622ade, CX625, CX625ade, CX625adhe	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark CX725, CX725ade, CX727	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark CX730de, CX735de	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark CX820, CX820de, CX825, CX825de, CX827, CX860	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

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Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark CX920, CX920de, CX921, CX821de, CX922, CX922de, CX923, CX923dte, CX923dxe, CX924, CX924dte, CX924dxe, CX927, CX931dse, CX931dtse	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark M1246	X	✓	✓	✓	X	X	X	X	X	X
Lexmark M1342	X	✓	✓	✓	X	X	X	X	X	X
Lexmark M3150 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark M3250	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark M5155 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark M5163 <sup>3</sup>	✓	✓	X	✓	✓	✓	✓	✓	✓	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

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<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark M5170 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark M5255	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark M5265	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark M5270	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark MS310dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS312dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS315dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS321dn	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS410d	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS415dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS510dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS610dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS710dn	X	✓	X	✓	X	X	X	X	X	X

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<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

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<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark MS711dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS810dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS811dn	X	✓	X	✓	X	X	X	X	X	X
Lexmark MS911de	✓	✓	X	✓	X	✓	X	X	X	X
Lexmark T654dn	X	X	X	X	X	X	X	X	X	X
Lexmark X544dn	X	X	X	X	X	X	X	X	X	X
Lexmark MB2236ad w	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MB2236ad we	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MB2338	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MB2442	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MB2546	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MB2650	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

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Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark MB2770	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MB3442	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MC2535	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MC2640	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MC3224dwe	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MC3224adwe	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MC3224i	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MC3326	X	✓	✓	✓	X	X	X	X	x	x
Lexmark MC3326i	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MC3426	X	✓	✓	✓	X	X	X	X	x	x
Lexmark MC3426adw	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MC3426i	X	✓	✓	✓	X	X	X	X	✓	✓

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

<sup>4</sup> You cannot deploy applications and configurations to these printer models using the Fleet Management web portal.

<sup>5</sup> These printers do not support automatic print release.

<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark MS331	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS421	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS431	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS521 dn	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS610de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MS621	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS622	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark MS725	X	✓	✓	✓	X	X	✓	✓	✓	X
Lexmark MS810de, MS812de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MS821	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS821n, MS821dn	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS823	X	✓	✓	✓	X	X	X	X	X	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

<sup>4</sup> You cannot deploy applications and configurations to these printer models using the Fleet Management web portal.

<sup>5</sup> These printers do not support automatic print release.

<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark MS823n, MS823 dn	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS825	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS825dn	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS822, MS826	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark MS911de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MX321adn	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MX331adn	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MX410de	✓	✓	X	✓	X	X	✓	✓	✓	X
Lexmark MX417de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MX421	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MX431	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MX431adn	X	✓	✓	✓	X	X	X	X	✓	✓

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

<sup>4</sup> You cannot deploy applications and configurations to these printer models using the Fleet Management web portal.

<sup>5</sup> These printers do not support automatic print release.

<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark MX510de, MX511de, MX517de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MX521de, MX522	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MX610de, MX611de, MX611dhe, MX617de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MX622ade	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MX6500, 6500	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MX710, MX711, MX717, MX718 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MX721, MX722, MX725	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

<sup>4</sup> You cannot deploy applications and configurations to these printer models using the Fleet Management web portal.

<sup>5</sup> These printers do not support automatic print release.

<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark MX810, MX811, MX812 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark MX822, MX826	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MX910de, MX911, MX912 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark T656, TS656 <sup>4,5</sup>	X	X	X	✓	X	✓	✓	✓	✓	X
Lexmark X548	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark X651, X652, X654, X656, X658 <sup>4,5</sup>	X	✓	X	✓	✓	✓	✓	✓	✓	X
Lexmark X734, X736, X738 <sup>4,5</sup>	X	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark X746, X748	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark X792	✓	✓	X	✓	X	✓	✓	✓	✓	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

<sup>4</sup> You cannot deploy applications and configurations to these printer models using the Fleet Management web portal.

<sup>5</sup> These printers do not support automatic print release.

<sup>6</sup> Printers with eSF version 5.0 or later and printers with eSF version 4.0 or earlier require updated firmware to support Cloud Scan Management. To find the current firmware version in your printer, see [“Viewing the printer firmware version” on page 48](#). For information on updating firmware in your printer, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).



Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark X860, X862, X864 <sup>4,5</sup>	X	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark X925 <sup>5</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark X950, X952, X954	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark XC2132 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark XC2235, XC2240	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XC2326	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark XC4140, XC4150	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XC4143	✓	✓	✓	✓	✓	✓	X	X	X	X
Lexmark XC4240	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XC6152, XC6153	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XC6153de	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

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Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark XC8155, XC8160, XC8163	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XC9225, XC9235	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XC9245, XC9255, XC9265	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XM1140, XM1145 <sup>3</sup>	✓	✓	X	✓	✓	✓	✓	✓	✓	X
Lexmark XM1242, XM1246	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XM1342	X	✓	✓	✓	✓	X	X	X	✓	✓
Lexmark XM3150 <sup>3</sup>	✓	✓	X	✓	✓	✓	✓	✓	✓	X
Lexmark XM3250	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XM5163, XM5170 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X

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<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

<sup>3</sup> If these printer models are managed using the Fleet Agent, then sending notifications to the control panel is not supported.

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Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark XM5263, XM5270 <sup>3</sup>	✓	✓	X	✓	✓	✓	✓	✓	✓	X
Lexmark XM5365, XM5370	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XM7155, XM7162, XM7163, XM7170 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark XM7263, XM7270 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark XM7355, XM7370	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XM7355b	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XM9145 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark XM9155, XM9165 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X

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Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark XS651, XS652, XS654, XS656, XS658	X	X	X	✓	X	✓	✓	✓	✓	X
Lexmark XS748	✓	X	X	✓	X	✓	✓	✓	✓	X
Lexmark XS796	✓	X	X	✓	X	✓	✓	✓	✓	X
Lexmark XS860, XS862, XS864	X	X	X	✓	X	✓	✓	✓	✓	X
Lexmark XS925	✓	X	X	✓	X	✓	✓	✓	✓	X
Lexmark XS950, XS955	✓	X	X	✓	X	✓	✓	✓	✓	X
Lexmark CX635	✓	✓	✓	✓	✓	✓	✓	✓	✓	x
Lexmark CX532	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark CS632	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark CS531	X	✓	✓	✓	X	X	X	X	✓	✓

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

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Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark XC2335	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark C2335	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MX632	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MX532	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MS632	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark MS631	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MS531	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark XM3350	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark M3350	✓	✓	✓	✓	X	✓	✓	✓	✓	X
Lexmark MC53x	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MC63x	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark XS53x	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark XS63x	X	✓	✓	✓	X	X	X	X	✓	✓

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

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Printer models	Cloud Fleet Management				Cloud Scan Management <sup>6</sup>	Cloud Print Management	Authentication method			Cloud Print Release
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent			Badge	User ID	PIN	
Lexmark MX432adwe	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

<sup>1</sup> The Fleet Agent also discovers Lexmark and third-party printers that are not listed on this table. In these printers, only data collection is supported. Depending on the Management Information Base (MIB) implementation, third-party printers may have different levels of data collection capabilities.

<sup>2</sup> Make sure that the firmware is updated to the latest version before enrolling the printer. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).

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## Viewing the printer firmware version

- 1 Open a web browser, and then type the printer IP address in the address field.

### Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the web page correctly.

- 2 Click **Settings > Reports > Device > Device Information**.

- 3 Take note of the Kernel value.

For example, **MXTGM.075.015**, where **075.015** is the firmware version.

## Updating printer firmware from the Embedded Web Server

Depending on the firmware version, you may need to update the firmware before enrolling the printer.

- 1 Open a web browser, and then type the printer IP address in the address field.

### Notes:

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.



- If you are using a proxy server, then temporarily disable it to load the web page correctly.

**2** Click **Settings > Device > Update Firmware**.

**3** Do either of the following:

- Click **Check for updates > I agree, start update**.
- Upload the flash file.

**Note:** To get the latest firmware, go to [www.lexmark.com/downloads](http://www.lexmark.com/downloads), and then search for your printer model.

**a** Browse to the flash file.

**Note:** Make sure that you have extracted the firmware ZIP file.

**b** Click **Upload > Start**.

## Viewing the Embedded Solutions Framework (eSF) version

The Embedded Solutions Framework (eSF) defines and identifies the software architecture for each touch-screen printer generation. Application navigation, configurations, features, and capabilities vary in the different eSF versions.

**1** Open a web browser, and then type the printer IP address in the address field.

**Notes:**

- View the printer IP address on the printer home screen. The IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
- If you are using a proxy server, then temporarily disable it to load the web page correctly.

**2** Depending on your printer model, do either of the following:

- a** Click **Settings > Reports > Device > Device Information**. Take note of the Embedded Solutions value.
- b** Click **Reports > Device**, and then from the Embedded Solutions section, take note of the Framework value.



# Rollout Guide

## Overview

**Note:** The screenshots may vary depending on the latest release.

Make sure that you have read through the "Getting Started" section before proceeding.

This section describes the recommended process of rolling out Lexmark Cloud Fleet Management and Cloud Print Management. This knowledge helps you to start managing your fleet and printing with the full capabilities of Lexmark Cloud Services.

- [“Manage your organization” on page 50](#)
  - Set how users authenticate with Lexmark Cloud Services and default user roles.
  - For channel partners, create customer (child) organizations.
- [“Add and edit your users” on page 63](#)
  - Create user accounts and set system permissions.
- [“Enroll your printers” on page 105](#)
  - Register printers with Lexmark Cloud Services and enable remote management.
  - Select the agents to use.
- [“Deploy applications and configure your printers” on page 162](#)
  - Remotely configure printers with eSF applications and device settings using Cloud Fleet Management tools.
- [“Customize your print environment” on page 189](#)

**Note:** Applicable only if Cloud Print Management is enabled for the organization.

  - Set up organizational policies, including print quotas and print delegates.
  - Select the print release clients to use.
- [“Using notification policies” on page 220](#)
  - Send email alerts on supplies levels, such as when the toner level is at or below a certain value.
  - Send email alerts on printer communications, such as when a data refresh has not occurred, or a printer has not communicated for a certain interval.

## Manage your organization

### Why I need to manage an organization?

There are many ways to set up an organization. The setup depends on how your company operates and in the case of channel partners, how their customers operate their business.

Consider these factors when managing an organization:

- What printer models will be used?
  - Are they all Lexmark models?
  - Will third-party printers be used?
- Will a firewall or proxy server be used?



- What enrollment agents do you plan to use?
- What functions will each user perform as an administrator and as a user?
- Will identity federation be used?
- What embedded applications will be used on the printers?
- Will users need to authenticate at the printer? If yes, how do they plan to authenticate?
- Will Cloud Print Management be used?
  - What print management policies will need to be configured?
  - How will the user submit print jobs?
  - What submission clients will be used?

For channel partners, there are more factors to consider. If you plan to use child organizations, then the answer to each of these questions will help determine the user accounts required in the child organization, if any.

- Will users in the channel partner organization need access to child organizations?
- Who will perform the ongoing management of users in the child organization?
- Will Cloud Print Management be used in the child organization?
  - Will the channel partner or someone from the end customer manage Cloud Print Management for the child organization?

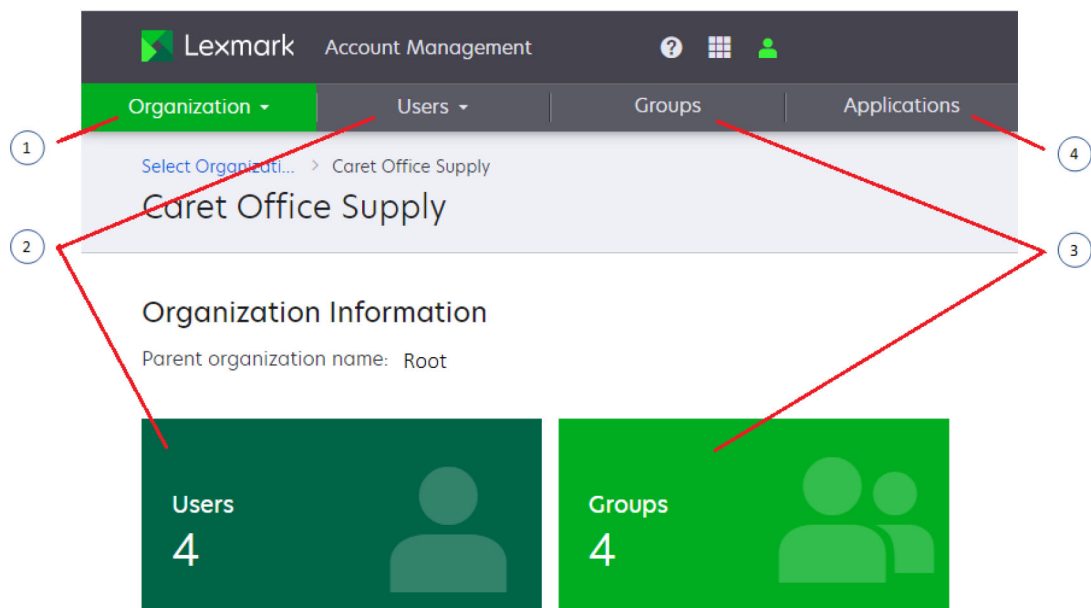
## Understanding the Account Management dashboard

The Account Management dashboard is the landing page of the Account Management portal. The Account Management portal lets you manage organizational settings, create and manage users, assign user roles, and create child organizations under channel partner organizations. What can be seen depends upon the roles of the user.

**Note:** A user must have either the Organization Administrator or User Administrator role to access the Account Management portal.



The following is a sample Account Management dashboard for a user with the Organization Administrator or User Administrator role.



**1 Organization**

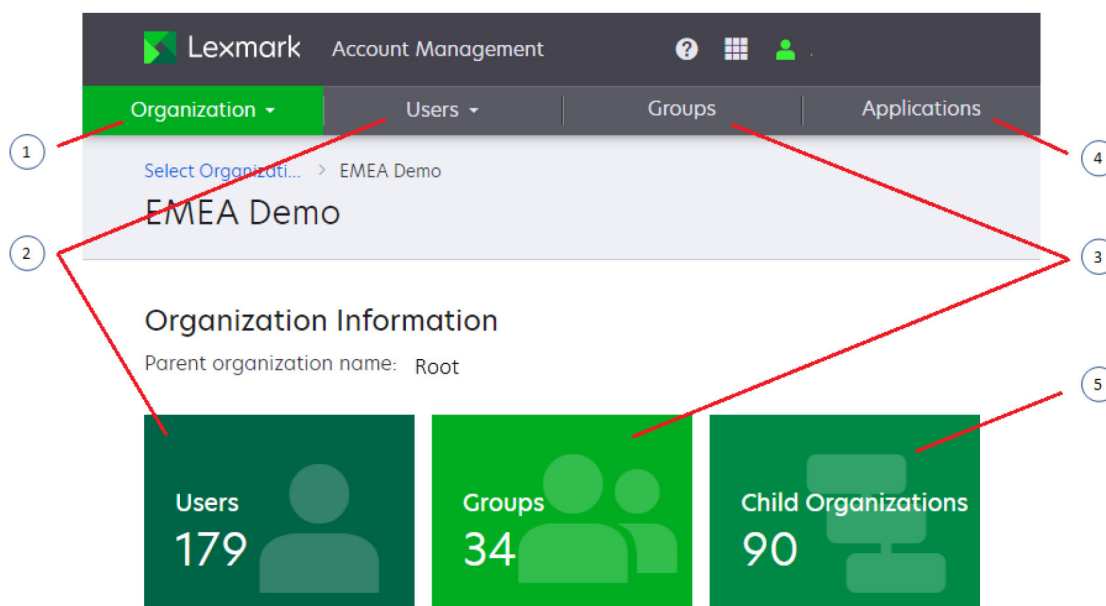
**2 Users**

**3 Groups**

**4 Applications**



The following is a sample Account Management dashboard for a user with the Organization Administrator or User Administrator role, and the Partner Administrator role.



## 1 Organization

## 2 Users

## 3 Groups

## 4 Applications

## 5 Child Organizations

The Account Management dashboard provides access to the following:

### 1 The **Organization** menu, which provides links to the following:

- The Account Management dashboard
- The Organization Roles page—Lets you select a set of roles that are automatically assigned to all users in the organization
- The Authentication Provider page—The setup for federated identity management
- Child organizations—Lets you view child organizations defined under the partner organization.

**Note:** These organizations appear only to users who have the Partner Administrator role.

- Printer Login Configuration

### 2 The **Users** card and menu:

- Shows the list of user accounts in the organization
- Lets you create new user roles and modify existing ones

### 3 The **Groups** card and tab:

- Shows the list of user groups in the organization

**Note:** Groups provide a quick way to assign the same set of roles to several users.



**4** The **Applications** tab:

- Shows the list of installed applications that provide authentication credentials for devices without user credentials, such as Fleet Management Printer Agent and Cloud Print Management

**5** The **Child organizations** card:

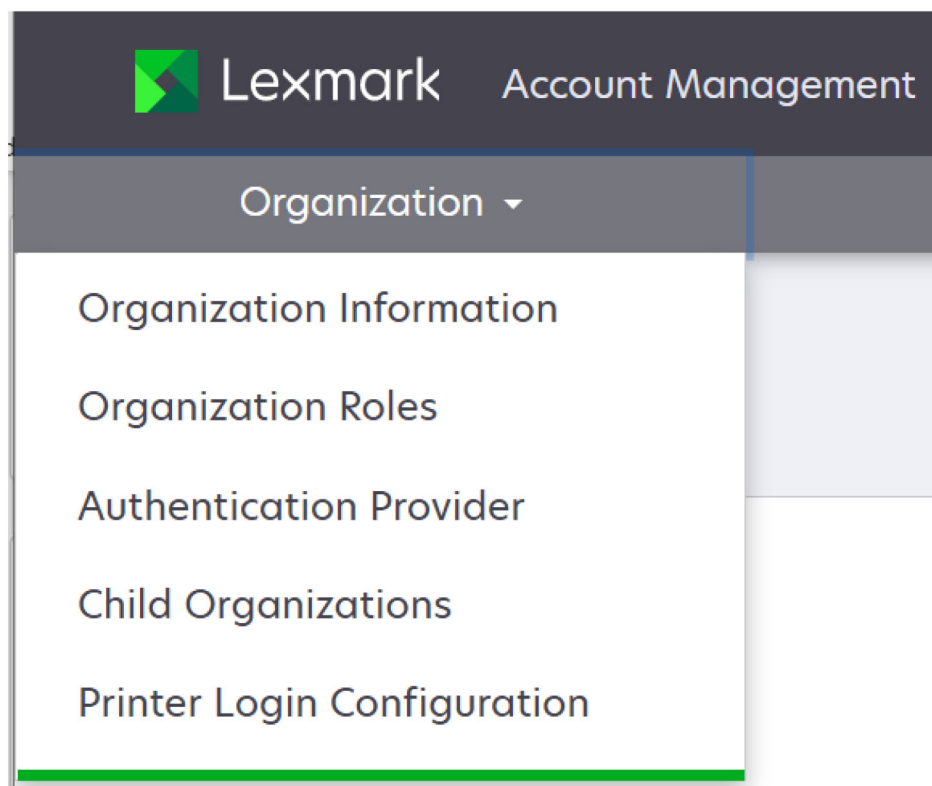
- Shows the list of child organizations under an organization.

**Note:** This card appears only to users who have the Partner Administrator role.

## Organization settings

### Organization settings

The Organization menu provides quick access to various organizational settings and information.



The Organization menu contains the following:

- Organization Information—A link to the Account Management dashboard, which provides links to the user and group management pages

**Note:** For channel partners, there is also a link to the child organizations management page.

- Organization Roles—Lets you select a set of roles that are automatically assigned to all users in the organization
- Authentication Provider—The setup for federated identity management



- Child Organizations—Lets you view child organizations defined under the partner organization

**Note:** This menu item appears only to channel partners.

- Printer Login Configuration—Defines the user authentication modes allowed at printers

For more information, see [“Managing printer logins” on page 284](#).

## Configuring user login at the printer

You must configure the authentication process for users who log in at the printer. If the user is accessing Lexmark’s cloud-based functionality, such as Cloud Fleet Management or Cloud Print Management, then logging in to the printer is required.

- 1 From the Account Management web portal, click **Organization > Printer Login Configuration**.



The Organization Printer Login Configuration page allows you to select Single (Standard) and two-factor (Badge + PIN) authentication methods for user authentication.



- 2 You can either use Single (Standard) or two-factor (Badge + PIN) authentication methods for user authentication. Do either of the following:

Lexmark Account Management

Organization Users Groups

Select Organization > Caret Office Supply > Printer Login Configuration

## Organization Printer Login Configuration

### Printer Login Configuration

☒ Standard authentication

Select at least one of the options below

☐ Badge

☒ PIN

☐ Secure Login

☐ Badge + PIN as second factor

☐ Secure Login

### PIN Details

Required only if a PIN based authentication scheme is selected

PIN length

– 4 +

Range 4 to 12

PIN Generation Options

Administrator manually set

Administrator sets the PIN when importing users. A user cannot reset the PIN.

☒ Never expires

☐ Expires after

– 8 +

Range 1 to 48

hour(s)

Save Changes Discard Changes

### Standard authentication

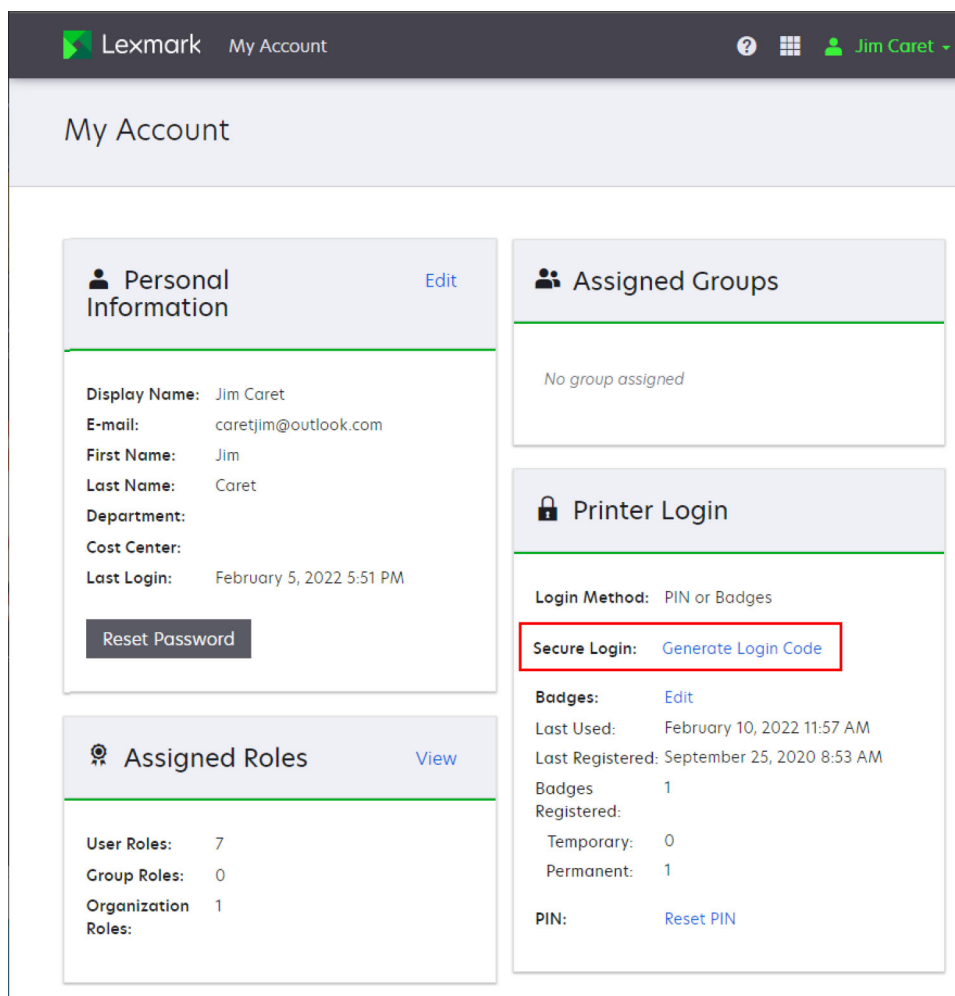
One or more of the standard authentication methods can be enabled at the same time.

- **Badge**—Uses contactless card reader and user ID badges. Badges must be registered before they can be used. For more information, see [“Managing badges” on page 286](#).
- **PIN**—Uses a 4-digit to 12-digit PIN. PINs can be set by the user, the administrator, or Lexmark Cloud Services. PINs can be set to never expire or to expire after 1 hour up to 180 days. For more information, see [“Managing PINs” on page 287](#).

**Note:** If an authentication provider has been configured, the PIN Generation option must be set to Administrator manually set and to Never expire.



- **Secure login**—Users must obtain a one-time PIN each time they authenticate at the printer. For more information, see [“Obtaining secure login code” on page 285](#).
  - The one-time PIN can be obtained from either of the following:
    - The My Account page, in the Printer Login section
    - The Lexmark Print application, by clicking the cloud icon.



The screenshot shows the Lexmark My Account interface. At the top, there's a header with the Lexmark logo, 'My Account', and a user profile for 'Jim Caret'. Below this, the 'My Account' title is centered. The main content area is divided into four sections:

- Personal Information:** Includes fields for Display Name (Jim Caret), E-mail (caretjim@outlook.com), First Name (Jim), Last Name (Caret), Department, Cost Center, and Last Login (February 5, 2022 5:51 PM). A 'Reset Password' button is at the bottom.
- Assigned Groups:** Shows 'No group assigned'.
- Assigned Roles:** Shows User Roles (7), Group Roles (0), Organization (1), and Roles.
- Printer Login:** Includes 'Login Method: PIN or Badges', 'Secure Login: Generate Login Code' (highlighted with a red box), 'Badges: Edit', 'Last Used: February 10, 2022 11:57 AM', 'Last Registered: September 25, 2020 8:53 AM', 'Badges Registered: 1', 'Temporary: 0', 'Permanent: 1', and 'PIN: Reset PIN'.

**Note:** If secure login is enabled for an organization, then the Secure Login icon appears on the

printer control panel.





**Badge + PIN as second factor**

In this method users must use their badge and enter their PIN to authenticate. The badge and PIN stipulations as stated in the Standard Authentication section also apply.

- The Cloud Authentication eSF application polls the cloud for changes to the Printer Login Configuration settings every 15 minutes.
- The settings on the Printer Login Configuration page overwrite settings that are configured with the Cloud Authentication application installed in the printer.
- These settings are applied to all printers in the organization.

**Understanding identity federation**

Federation is the process of creating a trust relationship between a customer's identity provider (IDP) and an external service, such as Lexmark Cloud Services. The identity provider can be Microsoft Azure Active Directory (Azure AD), Google Identity, or any other Security Assertion Markup Language (SAML) 2.0-compliant identity management system.

After this trust relationship is built, users can access Lexmark Cloud Services using the same credentials that they use for their other internal sites and services. The customer's identity provider manages all aspects of credential management, including password validation, complexity of requirements, expiration, and potential use of multifactor authentication. Additionally, the identity provider can support Single Sign-On (SSO), which reduces the number of times users are required to authenticate as they switch between services.

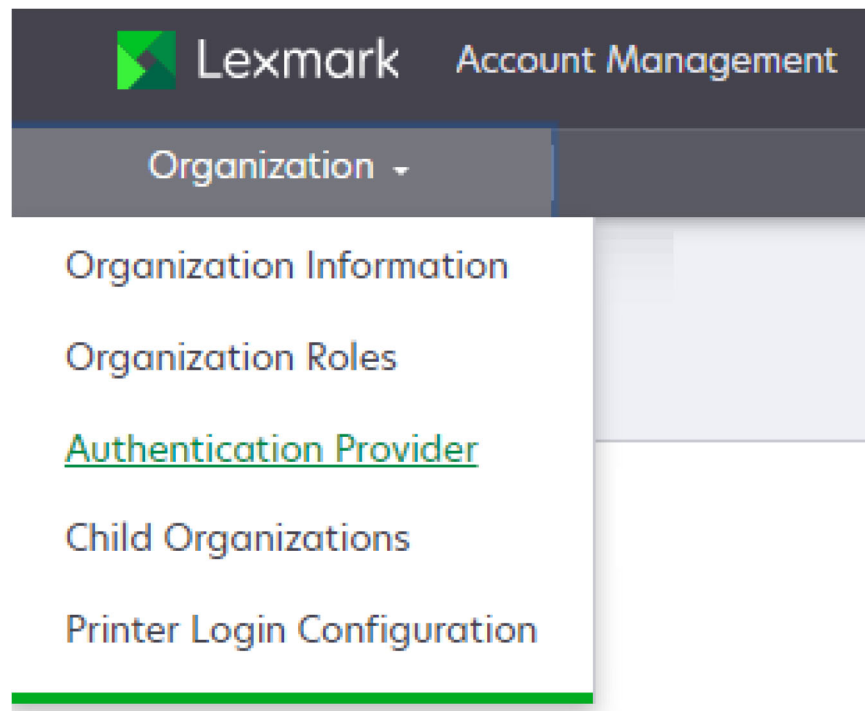
**Notes:**

- Federation is supported by identity management services that use the SAML 2.0 standard.
- An organization can only be configured to federate with a single identity management provider.



To enable federation or to change the current federation configuration, do the following:

- 1 From the Account Management web portal, click **Organization** > **Authentication Provider**.



- 2 If federation is not enabled, then click **Configure an Authentication Provider**.

#### Authentication Provider

**There are currently no authentication provider.**

Configure SAML SSO Authentication for this organization.

[Configure an Authentication Provider](#)



### 3 Enter the details in the Authentication Provider form.

#### Authentication Provider

##### Domains

+ Add

##### Type

SAML

##### Single Sign-On Settings

Service provider entity ID (Required)

https://idp.iss.lexmark.com

*The URL of the identity provider.*

SSO target URL (Required)

*The ACS URL used to log in to the SSO provider.*

SSO Logout URL (Required)

SSO name identifier format (Required)

E-mail address

Certificate (Required)

Configure Authentication Provider

Cancel

## Creating a child organization

Child organizations provide a means of grouping printers based on business needs. This grouping could be for customers of a channel partner or business units of an enterprise.

**Note:** You must have the Partner Administrator role to create and manage child organizations. For more information, see [“Partner administrator” on page 284](#).

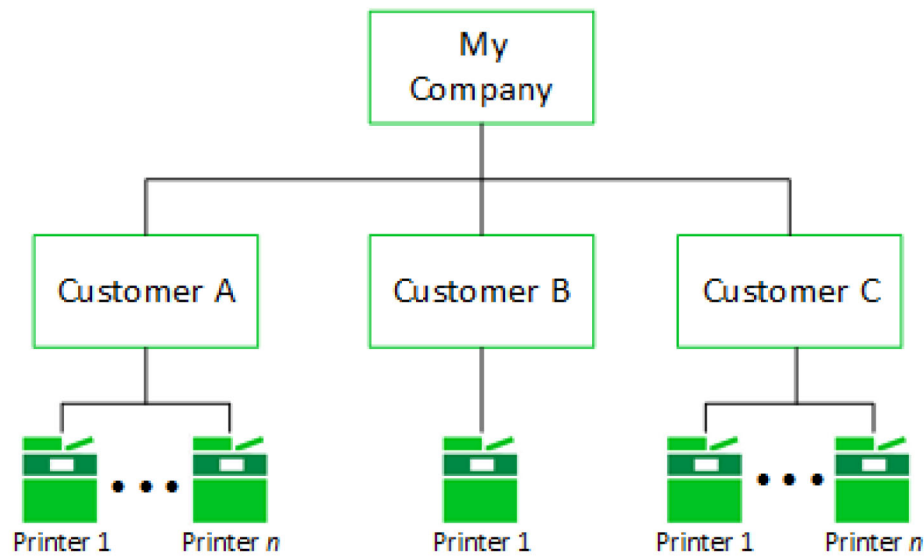
### Do I need to create a child organization?

There are two ways of organizing your customers' printers: a hierarchical structure or a flat structure. The structure you choose determines whether child organizations are needed.

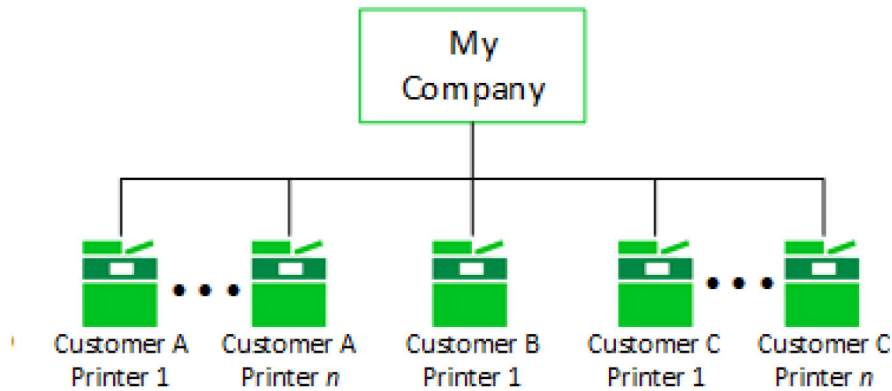
**Note:** We recommend using the hierarchical structure for organizing your customers' printers.

- **Hierarchical structure**—Uses a child organization for each of your customers. The printers of each customer are grouped in that customer's organization, separating printer information between customers. Also, a hierarchical structure lets you grant access to future Lexmark Cloud Services capabilities on a customer-by-customer basis.





**Flat structure**—A flat structure places all printers from all customers in a single structure. Any future Lexmark Cloud Services capabilities added to one customer are available to all.



### Hierarchical structure vs. flat structure

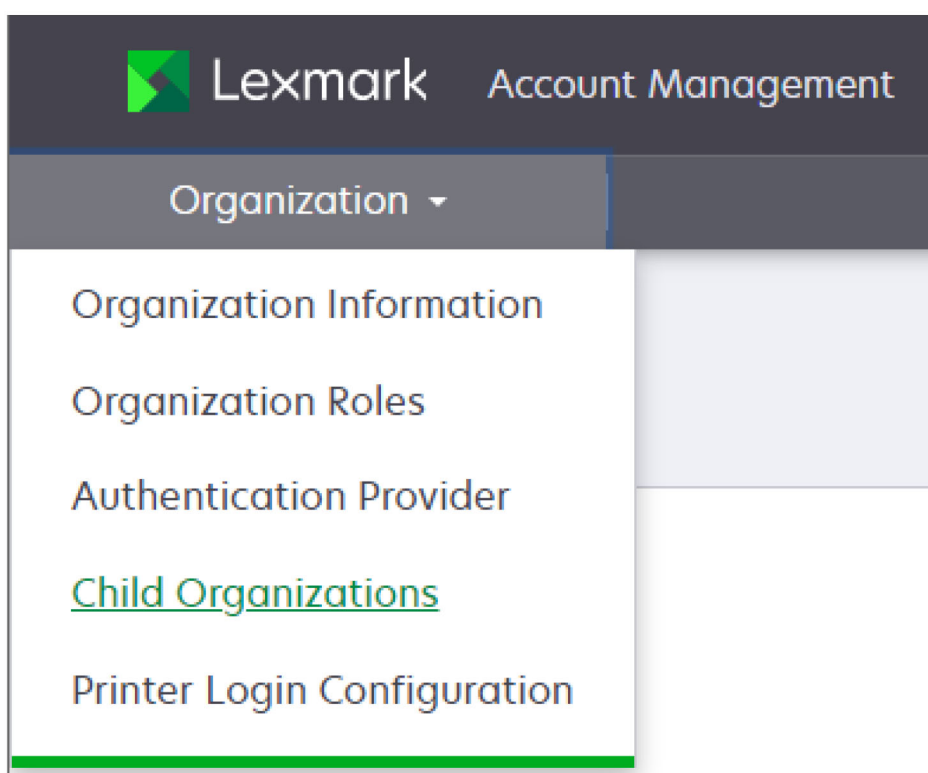
Purpose	Hierarchical	Flat
Identifying a customer's printers	Printers for each customer are separated into different child organizations.	Printers must be tagged with an identifier to determine which customer is using it.
Finding a specific printer	The customer must be known, or each child organization must be individually searched for the specific printer.	All printers are in one list.
Print activity reporting	A customer's printer activity can be easily determined by reporting on the print activity of the entire child organization.	A customer's printer activity must be determined by filtering printers by customer-identifiable means. For example, you can filter printers by tags.



Purpose	Hierarchical	Flat
Future Lexmark Cloud Services functionality	Future Lexmark Cloud Services functionality can be selectively granted to individual customers.	Future Lexmark Cloud Services functionality made available to one customer is available to all. Some enhanced functionality may not be supported in a flat structure.
Account management by customers	A customer administrator can be added where needed in individual customer organizations without sharing access to information of other customers.	A customer administrator who is added can see all printer information for all customers.

### Creating a child organization

- 1 In the Account Management web portal, click **Organization > Child Organizations**.



- 2 Click **Create**.

**Note:** If there are no existing child organization, then click **Create Child Organization**.



The screenshot shows the Lexmark Account Management interface. The top navigation bar includes the Lexmark logo, 'Account Management', a help icon, a grid icon, and a 'Partner Admin' dropdown. Below this is a secondary navigation bar with 'Organization', 'Users', 'Groups', and 'Applications'. The main content area shows a breadcrumb trail: '... > CFM\_Partner > Child Organizations'. The title 'Child Organizations' is prominently displayed. To the right of the title is a search bar labeled 'Search child organizat' with a magnifying glass icon. Below the title are two buttons: '+ Create' and 'Delete'. A table below these buttons shows '1 total organization'. The table has four columns: 'Organization name', 'Users', and 'Groups'. The first row shows a checkbox, 'CFM Customer', '0', and '4'. Below the table, it says '1 total organization' and a pagination control showing '< 1 >'.

	Organization name	Users	Groups
<input type="checkbox"/>	CFM Customer	0	4

- 3 In the Organization name field, type a unique name and then click **Create Child Organization**.

The screenshot shows a 'Create Child Organization' dialog box. It has a title bar with the text 'Create Child Organization' and a close button (X). Inside the dialog, there is a text input field labeled 'Organization name' with the text 'Child Organization Name' entered. Below the input field is a note: 'Organization name must be unique'. At the bottom of the dialog are two buttons: 'Cancel' and 'Create Child Organization'.

## Add and edit your users

### Why do I need to manage users?

For users to use Lexmark Cloud Services, administrators must first create accounts for them based on their roles and responsibilities. It is common for a user's roles to change over time. You can easily make changes to those roles after the initial setup is complete.



When creating Lexmark Cloud Services accounts for users, consider the following:

- What do users need to have access to the cloud?
- What functions will each user need to perform?

For channel partners, also consider the following if child organizations are created:

- Will users in your organization need access to child organizations?
- What users do you need to create in the child organization, and what functions will they need to perform?

## Adding users

To give a user access to Lexmark Cloud Services, administrators must first create accounts for them in an organization in Lexmark Cloud Services. You can create user accounts in one of the following ways.

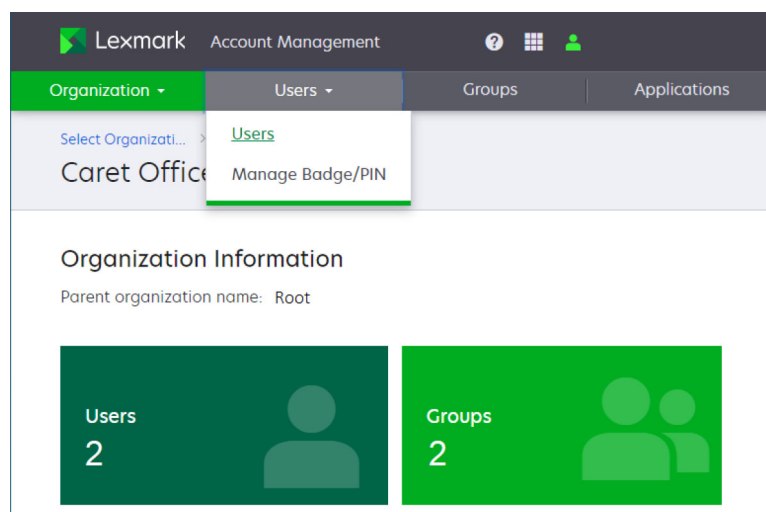
- Using the Add User form in the Account Management portal
- Importing users using a file in the Account Management portal
- Using federated identity management

### Creating users manually by using the Add User form

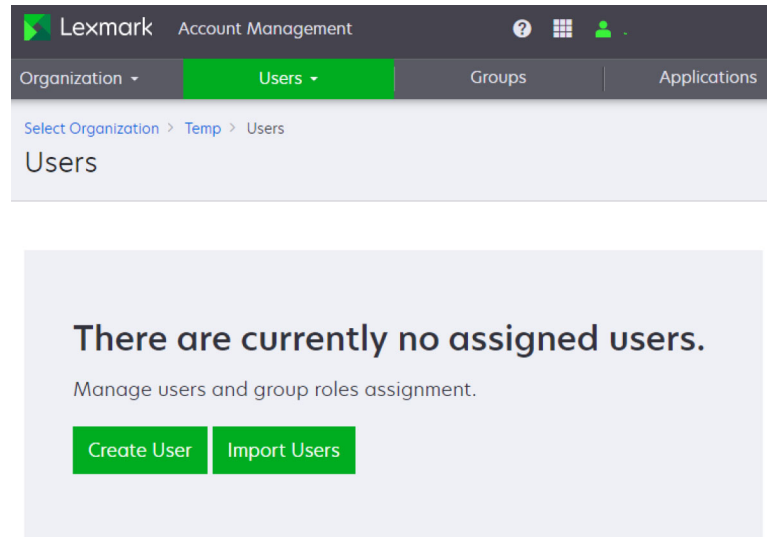
You can create an account for a user manually in Lexmark Cloud Services by typing the user's information in the Add User form. Only one account can be created at a time. Use this method if you are adding only a few users.

**1** From the Account Management web portal, click **Users**.

**2** Click **Create User** or **Create**.











**3** Type the following details:

- **E-mail**—Must be your Lexmark Cloud Services account name.
- **First Name**
- **Last Name**
- **Display Name**—The name that you want to appear in the Lexmark Cloud Services portal when you log in.
- **Department**
- **Cost Center**
- **Set Password**—This is required only when for Lexmark Customer Identity Management Services are used. The administrator can either manually set the user's password or email a link to the user. Users can use that link to create their own password.



 Lexmark Account Management   

Organization ▾ | Users ▾ | Groups | Applications

[Select Organizati...](#) > [Caret Office Sup...](#) > [Users](#) > Create User

## Users

E-mail

*E-mail must be unique*


First Name

Last Name

Display Name

Department

Cost Center

 Email will be sent to user to finish setting up their account/password

Create User

Cancel



Lexmark Account Management

Organization ▾ Users ▾ Groups Applications

Select Organization > EMEA Demo > Users > Create User

## Users

E-mail

*E-mail must be unique*

First Name

Last Name

Display Name

Department

Cost Center

Set Password

☒ E-mail a link to change the password

☐ Set password manually

*Password must be at least 8 characters long and contain*

- A lowercase character
- An uppercase character
- A number (0-9)
- A special character (~!@#%&\* \_ - + = ' | \ ( ) { } [ ] ; : " < > , . ? /)

☐ Show Password

Create User Cancel

#### 4 Click **Create User**.

### Importing users from a CSV file

You can create multiple user accounts simultaneously by importing them from a file. The Import feature lets you create, update, and delete multiple users in an organization using a CSV or TXT file. You can also create user groups, assign a user to those user groups, and set user PINs. For more information, see [“Managing users” on page 246](#). Use this method if you are adding a large number of users.

#### Notes:

- The **CREATE** command is used to create a new user account.
- The headers of the import file are case-sensitive.
- Count the commas. All columns must be accounted for on each line of the CSV file.
- The size of the CSV file must not exceed 1MB.



## Creating users when using federated identity management

When federated identity management is used, you do not need to create or import users manually to create their accounts. A user account in a federated organization is automatically created when the user logs in to the following for the first time:

- Lexmark Cloud Services portal
- A Lexmark Cloud submission client
- The Lexmark Print application

Creating a user account in a federated organization is useful in the following ways:

- If your organization already uses an identity management system, then federating allows Lexmark Cloud Services to authenticate users with your identity management system. User accounts do not have to be manually created or imported into the Account Management portal. User credentials are not stored in Lexmark Cloud Services.
- If user badges are not maintained in your authentication provider, then they can be manually added for each user. Or a list can be imported using the CSV file import function. This action pre-registers user badges.

**Note:** If your authentication provider maintains the users' badges, then they can be obtained directly through a claim from your authentication provider. This also allows badges to be used without having to register them.

- If the department or cost center definitions used in Lexmark Cloud Services do not correspond to definitions in your authentication provider, then you can resolve the mismatch. You can manually add missing definitions for each user, or you can import a list using the CSV file import function.

**Note:** If configured in the authentication provider setup, then user badges and department or cost center definitions can be obtained directly through claims from your authentication provider.

## Assigning roles

### User roles

Roles are used to manage access to specific features within Lexmark Cloud Services. A user can be assigned roles using any of the following methods:

- **Assigning roles individually**—Requires assigning roles manually to each user.
- **Assigning roles through groups**—Allows a set of roles to be given to users by making them a member of a group. Users can be members of more than one group.
- **Inheritance through organization roles**—Automatically assigns the organization roles to all users in the organization.

**Note:** For more information on user roles, see [“Understanding roles” on page 240](#).

### Determining what roles are needed

Before assigning roles, you must determine the features of Lexmark Cloud Services that your organization plans to use, and which individual users plan to use them.

### Administrative roles for account management

There are two administrative roles for account management: the **Organization Administrator** and the **User Administrator**.



### Organization Administrator

- Role with the most privileges
- Can manage organizational settings for your organization
- Can manage user accounts for your organization
  - Can add and delete user accounts
  - Can add and remove roles assigned to user accounts
  - Can add and remove user accounts from groups

### User Administrator

- Can manage user accounts for your organization
  - Can add and delete user accounts
  - Can add and remove roles assigned to user accounts
  - Can add and remove user accounts from groups

For channel partners, users who manage the configuration, user accounts, or printers in a customer organization must be added to a **Child Organization Access Group**. For more information, see [“Managing the Child Organization Access Group” on page 243](#).

The following table lists the roles required for actions to be performed in a customer (child) organization:

Action	Roles to assign to a child organization access group
Managing organizational settings	Organization Administrator
Managing user accounts	Organization Administrator or User Administrator
Managing printers	Fleet Management Administrator
Managing Cloud Print Management	Print Release Management Administrator

### Roles for Cloud Fleet Management

- Users enrolling printers in Cloud Fleet Management must have the **Fleet Management Administrator** and the **File Service Administrator** roles.
- Users accessing Fleet Management reports but not enrolling printers in their organization must have the **Fleet Management Reporting Analyst** role.
- Users enrolling a customer’s printers in Cloud Fleet Management must be added as members of a **Child Organization Access Group**. They must also be assigned the **Partner Administrator**, **Fleet Management Administrator**, and **File Service Administrator** roles.
- Users accessing Fleet Management reports for printers in customer organizations but not enrolling printers must be added as members of a **Child Organization Access Group**. They must also be assigned the **Partner Administrator**, **Fleet Management Reporting Analyst** roles.

### Roles for Cloud Print Management

The roles support two methods of print job submission and release: **Cloud Print Management** and **Hybrid Print Management**.



Submitted print jobs are stored in the Lexmark Cloud Service until the user releases it at a Cloud Print Management–enabled printer.

- Users submitting and releasing print jobs using Cloud Print Management must have the **Print Release Management User** role.
- Users managing Print Management for their organization must have the **Print Release Management Administrator** role.
- Users generating organizational Cloud Print Management reports but not submitting and releasing jobs must have the **Print Release Management Reporting Analyst** role.

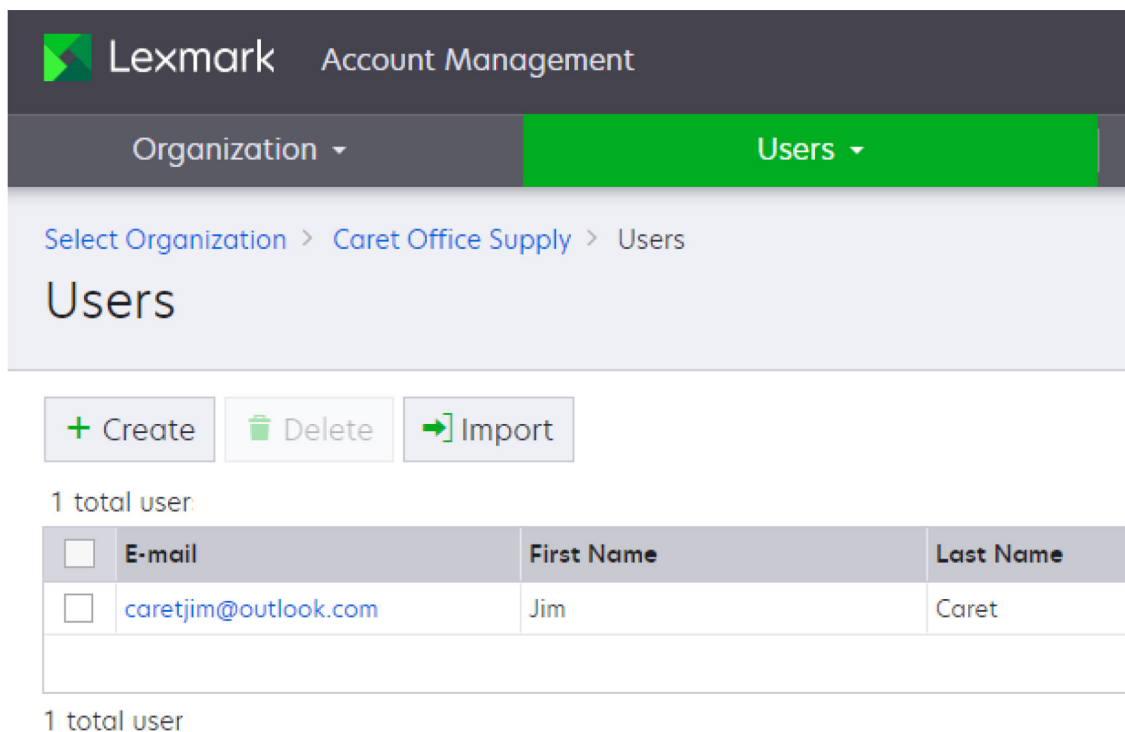
### Roles for Hybrid Print Management

Submitted print jobs are held on the user's workstation until the user releases it at a Cloud Print Management–enabled printer that uses Hybrid Print Management.

- Users using Hybrid Print Management must have the **Hybrid Print Management User** role.
- Users managing Print Management for their organization must have the **Hybrid Print Management Administrator** role.
- Users generating organizational Print Management reports but not using Hybrid Print Management must have the **Print Release Management Reporting Analyst** role.

### Assigning roles to an individual

- 1 From the Account Management web portal, click **Users > Users**.
- 2 On the Users page, click the E-mail of the user.



Lexmark Account Management

Organization ▾ Users ▾

Select Organization > Caret Office Supply > Users

## Users

+ Create Delete Import


1 total user

<input type="checkbox"/>	E-mail	First Name	Last Name
<input type="checkbox"/>	caretjim@outlook.com	Jim	Caret

1 total user



**3** In the Assigned Roles section, click **Edit**.


Lexmark Management


Organization ▾

Users ▾

Groups

[Select Organization](#) >
[Caret Office Supply](#) >
[Users](#) >
[caretjim@outlook.com](#)

caretjim@outlook.com


Personal Information

Edit

Display Name:

Jim Caret

E-mail:

caretjim@outlook.com

First Name:

Jim

Last Name:

Caret


Department:

Cost Center:

Last Login:


March 23, 2022 8:32 PM

Reset Password


Assigned Groups

Edit

No group assigned


Printer Login

Login Method:

PIN, Badges or Manual

Manual:

Enabled

Badges:

Edit

Last Used:

March 26, 2022 7:41 PM

Last Registered:

February 19, 2022 8:32 PM

Badges Registered:

Temporary:


0

Permanent:

1

PIN:

PIN registered


Assigned Roles

Edit

User Roles:

7

Group Roles:

0

Organization Roles:

1



#### 4 Do the following:

- To assign a role, click **Assign**.
  - a On the Assign Roles page, select or remove the roles.
  - b Click **Assign Roles**.

Lexmark Account Management

Organization Users Groups

Select Organization > Caret Office Supply > Users > caretjm@outlook.com > Assigned Roles > Assign Roles

### Assign Roles

#### System Roles

1 of 4 roles selected (1)

Role Name	Description
<input type="checkbox"/> Help Desk	View users, badges, groups, applications, PINs, and organization information
<input checked="" type="checkbox"/> Organization Administrator	Manage the organization and its users.
<input type="checkbox"/> User	View and manage your own account information. This is the default role.
<input type="checkbox"/> User Administrator	Manage users in the organization.

1 of 4 roles selected < 1 >

#### Custom Roles

4 of 11 roles selected

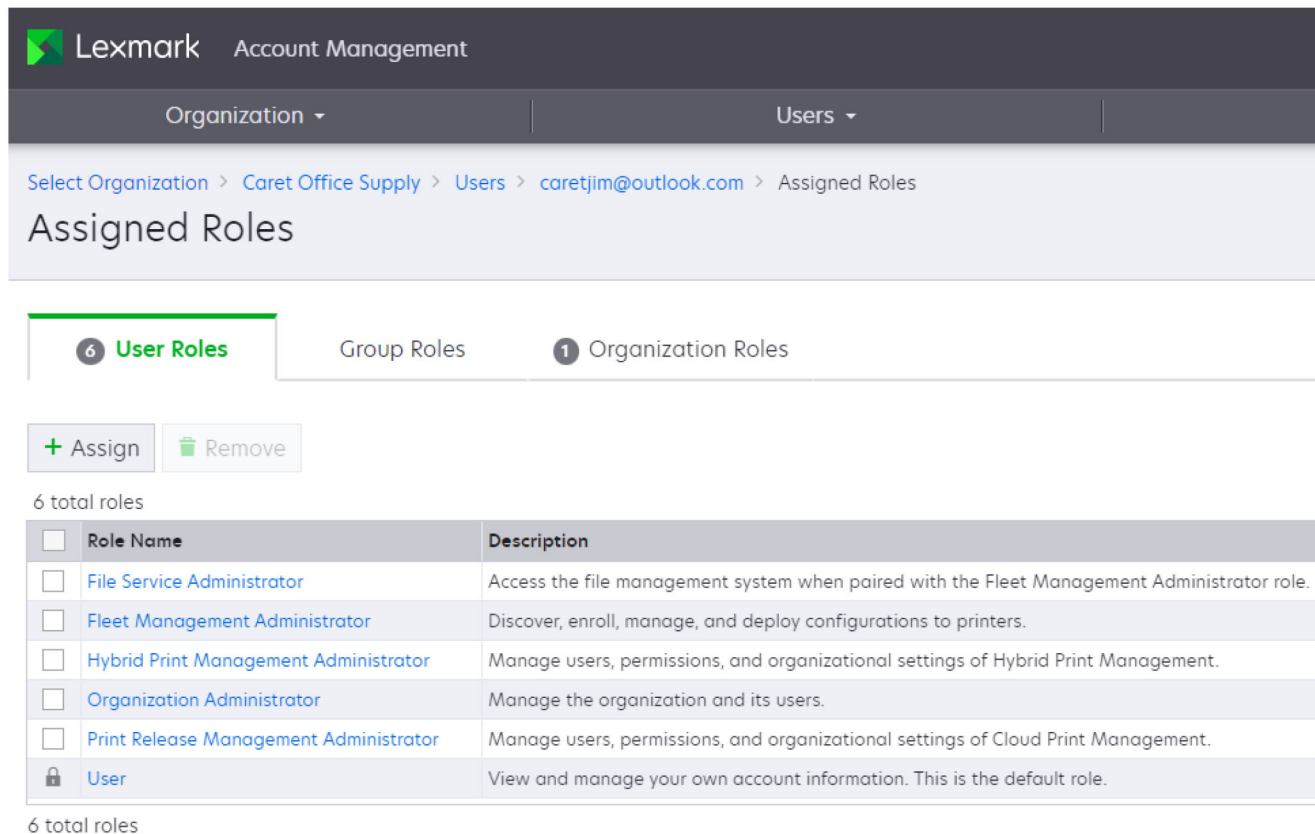
Role Name	Description
<input checked="" type="checkbox"/> File Service Administrator	Access the file management system when paired with the Fleet Management Administrator role.
<input checked="" type="checkbox"/> Fleet Management Administrator	Discover, enroll, manage, and deploy configurations to printers.
<input type="checkbox"/> Fleet Management Reporting Analyst	Access Fleet Management reporting data.
<input checked="" type="checkbox"/> Hybrid Print Management Administrator	Manage users, permissions, and organizational settings of Hybrid Print Management.
<input type="checkbox"/> Hybrid Print Management User	View and manage your own print jobs. This is the basic user role for Hybrid Print Management.
<input type="checkbox"/> MSA System Management Administrator	Manage the MSA system.
<input type="checkbox"/> MSA System Management User	View the core system metrics and operations data.
<input type="checkbox"/> Print Management Guest User	Access to print with email submission only.
<input checked="" type="checkbox"/> Print Release Management Administrator	Manage users, permissions, and organizational settings of Cloud Print Management.
<input type="checkbox"/> Print Release Management Reporting Analyst	Access Cloud Print Management reporting data.
<input type="checkbox"/> Print Release Management User	View and manage your own print jobs. This is the basic user role for Cloud Print Management.

4 of 11 roles selected < 1 >

**Assign Roles** **Cancel**



- To remove a role, select the role, and then click **Remove** > **Remove Role**.



The screenshot shows the Lexmark Account Management interface. The breadcrumb trail is: [Select Organization](#) > [Caret Office Supply](#) > [Users](#) > [caretjim@outlook.com](#) > [Assigned Roles](#). The main heading is 'Assigned Roles'. Below this, there are three tabs: '6 User Roles' (selected), 'Group Roles', and '1 Organization Roles'. There are two buttons: '+ Assign' and 'Remove'. Below the buttons, it says '6 total roles'. A table lists the roles with checkboxes in the first column.

<input type="checkbox"/>	Role Name	Description
<input type="checkbox"/>	<a href="#">File Service Administrator</a>	Access the file management system when paired with the Fleet Management Administrator role.
<input type="checkbox"/>	<a href="#">Fleet Management Administrator</a>	Discover, enroll, manage, and deploy configurations to printers.
<input type="checkbox"/>	<a href="#">Hybrid Print Management Administrator</a>	Manage users, permissions, and organizational settings of Hybrid Print Management.
<input type="checkbox"/>	<a href="#">Organization Administrator</a>	Manage the organization and its users.
<input type="checkbox"/>	<a href="#">Print Release Management Administrator</a>	Manage users, permissions, and organizational settings of Cloud Print Management.
<input checked="" type="checkbox"/>	<a href="#">User</a>	View and manage your own account information. This is the default role.

6 total roles

## Assigning roles through groups

Assigning roles through groups allows a set of roles to be given to users by making them a member of a group. This method makes it easy to assign the same roles to multiple users.

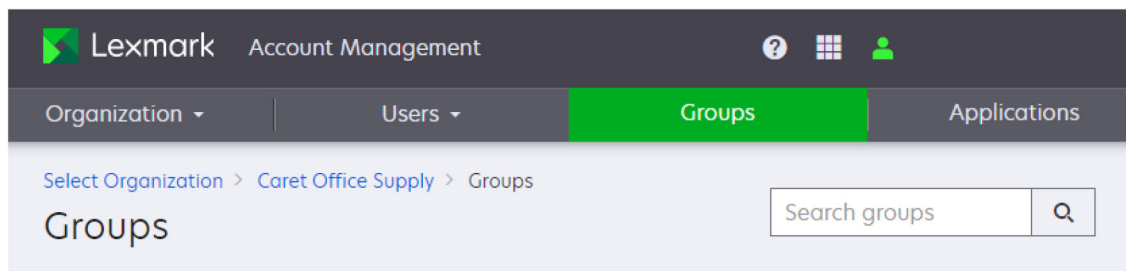
**Note:** Users can be members of more than one group.



1 From the Account Management web portal, click **Groups** tab.

2 Do any of the following:

- To create a new group, click **Create**.



*Groups created will provide its members access to the current organization based on roles assigned to the group.*

[+ Create](#) [Delete](#)

4 total groups

<input type="checkbox"/>	Group Name	Members
<input type="checkbox"/>	<a href="#">Admin</a>	0
<input type="checkbox"/>	<a href="#">Fleet Management</a>	0
<input type="checkbox"/>	<a href="#">Help Desk</a>	0
<input type="checkbox"/>	<a href="#">Reporting</a>	0

4 total groups

< 1 >

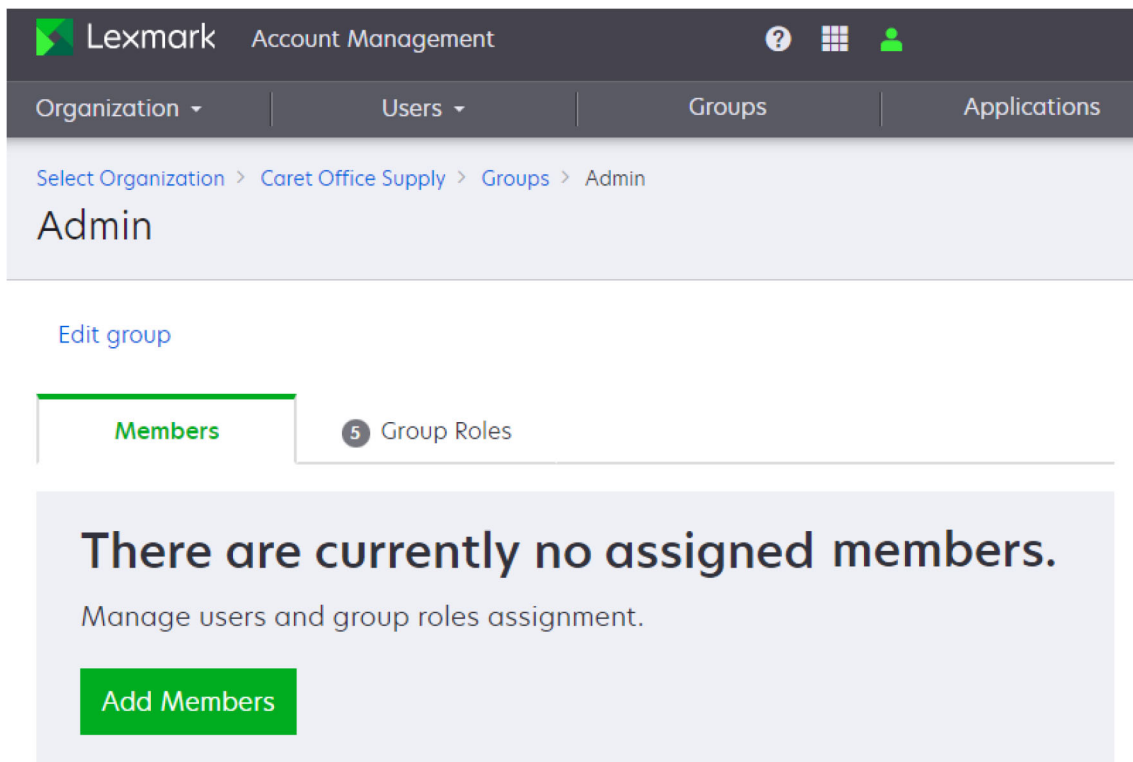
**a** In the Group name field, type the name of the group.

**b** Click **Create Group**.

- To edit an existing group, click the group under the Group Name column.



- 3 On the Edit group page, do the following:
- From the Members tab, add or remove members.





- From the Group Roles tab, you can either assign or remove roles.

Lexmark Account Management
Organization ▾ Users ▾ Groups

Select Organization > Caret Office Supply > Groups > Admin > Assigned Roles > Assign Roles

## Assign Roles

### System Roles

1 of 4 roles selected (1)

<input type="checkbox"/>	Role Name	Description
<input type="checkbox"/>	Help Desk	View users, badges, groups, applications, PINs, and organization information
<input checked="" type="checkbox"/>	Organization Administrator	Manage the organization and its users.
<input type="checkbox"/>	User	View and manage your own account information. This is the default role.
<input type="checkbox"/>	User Administrator	Manage users in the organization.

1 of 4 roles selected < 1 >

### Custom Roles

4 of 11 roles selected

<input type="checkbox"/>	Role Name	Description
<input checked="" type="checkbox"/>	File Service Administrator	Access the file management system when paired with the Fleet Management Administrator role.
<input checked="" type="checkbox"/>	Fleet Management Administrator	Discover, enroll, manage, and deploy configurations to printers.
<input type="checkbox"/>	Fleet Management Reporting Analyst	Access Fleet Management reporting data.
<input checked="" type="checkbox"/>	Hybrid Print Management Administrator	Manage users, permissions, and organizational settings of Hybrid Print Management.
<input type="checkbox"/>	Hybrid Print Management User	View and manage your own print jobs. This is the basic user role for Hybrid Print Management.
<input type="checkbox"/>	MSA System Management Administrator	Manage the MSA system.
<input type="checkbox"/>	MSA System Management User	View the core system metrics and operations data.
<input type="checkbox"/>	Print Management Guest User	Access to print with email submission only.
<input checked="" type="checkbox"/>	Print Release Management Administrator	Manage users, permissions, and organizational settings of Cloud Print Management.
<input type="checkbox"/>	Print Release Management Reporting Analyst	Access Cloud Print Management reporting data.
<input type="checkbox"/>	Print Release Management User	View and manage your own print jobs. This is the basic user role for Cloud Print Management.

4 of 11 roles selected < 1 >

Assign Roles Cancel

## Assigning roles by membership in a child organization access group

### Notes:

- Child organization access groups are available only to channel partners.
- Roles assigned through membership in a child organization access group apply across all customer organizations.



For channel partners, the **Groups** tab shows two tabs: **Organization Access** and **Child Organization Access**. Organization access groups apply only to the channel partner's organization. Child organization access groups apply to the customer organization. The process for managing membership and roles for organization access and child organization access groups is the same.

Account Management

?
Grid
User

Organization
Users
Groups
Applications

[Select Organization](#) > [EMEA Demo](#) > Groups

Groups

21 Organization Access

2 Child Organization Access

Groups created provide its members access to all child organizations. Added members inherit the roles of the group.

2 total groups

<input type="checkbox"/>	Group Name	Members
<input type="checkbox"/>	<a href="#">Fleet Administrators for Customers</a>	0
<input type="checkbox"/>	<a href="#">Partner Administrators Inheritance Group</a>	2

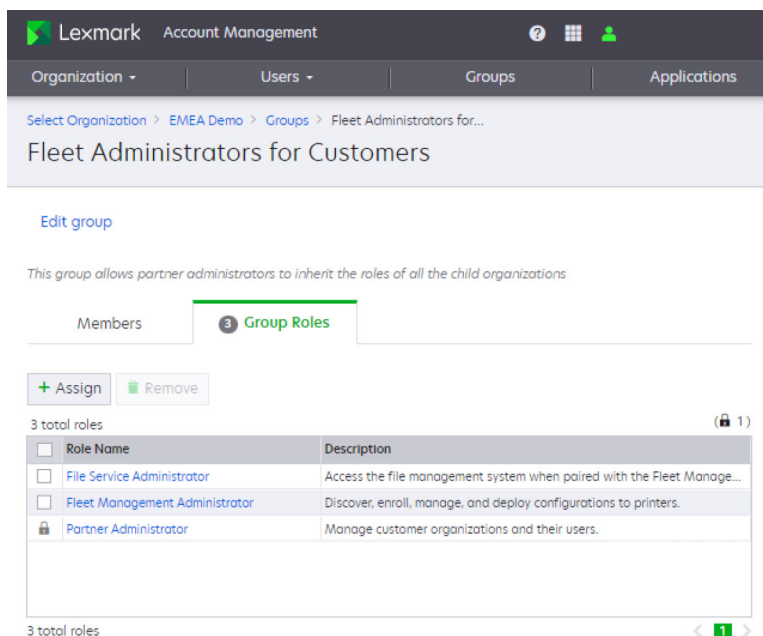
2 total groups

1

The difference between organization access groups and child organization access groups is that child organization access groups are created with a default role, **Partner Administrator**. You cannot delete the Partner Administrator role from a child organization access group. You can add or remove additional roles as needed.



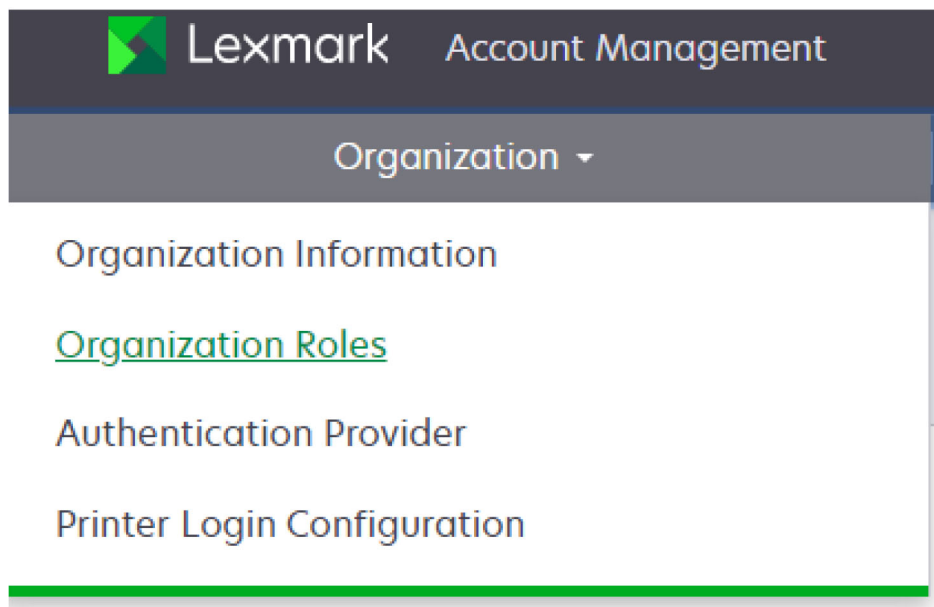
The Partner Administrator role is required for users to have access to customer (child) organizations. For example, a user who will be managing printers in a child organization using Fleet Management must be a member of a child organization access group. Moreover, that child organization access group has the Fleet Management Administrator role added along with the default Partner Administrator role.



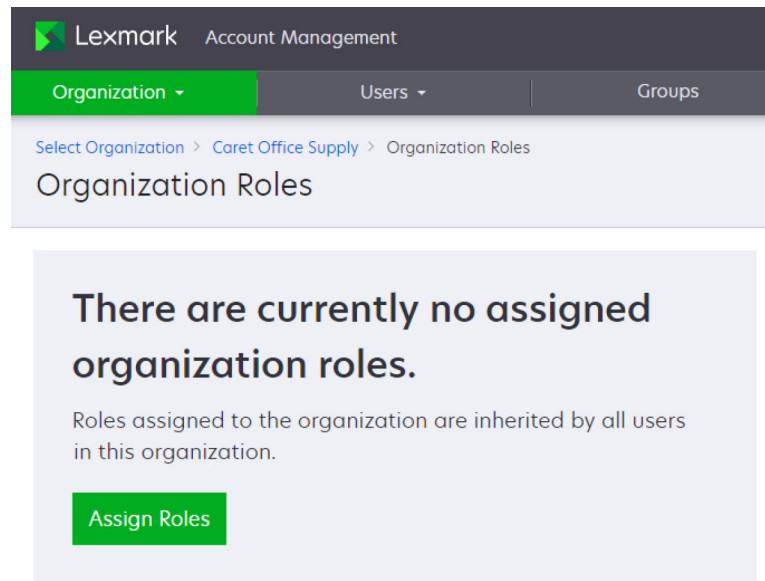
## Assigning organization roles

Roles can be assigned at the organization level. Organization roles are automatically inherited by all users in the organization. For example, if all users can access Cloud Print Management, then they are all assigned the Print Release Management User or Hybrid Print Management User role. The roles can be automatically assigned to all users via the organization roles.

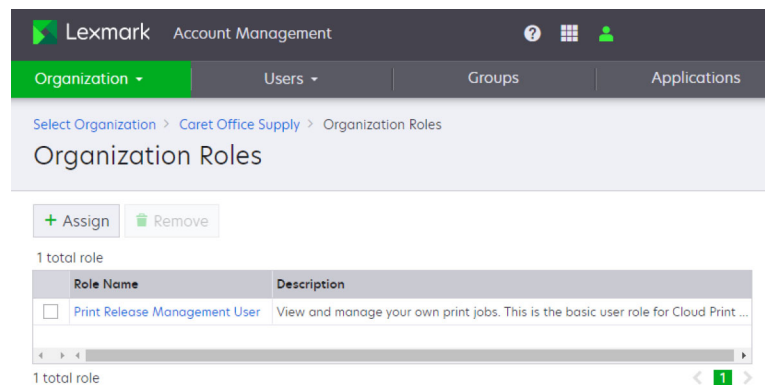
- 1 From the Account Management web portal, click **Organization > Organization Roles**.







**2** Click **Assign** or **Assign Roles**.





3 From the Assign Roles page, add or remove roles.

Lexmark Account Management

Organization ▾ Users ▾ Groups Applications

Select Organization > Caret Office Supply > Organization Roles > Assign Roles

## Assign Roles

1 of 11 roles selected

<input type="checkbox"/>	Role Name	Description
<input type="checkbox"/>	File Service Administrator	Access the file management system when paired with the Fleet Manag...
<input type="checkbox"/>	Fleet Management Administrator	Discover, enroll, manage, and deploy configurations to printers.
<input type="checkbox"/>	Fleet Management Reporting Ana...	Access Fleet Management reporting data.
<input type="checkbox"/>	Hybrid Print Management Admini...	Manage users, permissions, and organizational settings of Hybrid Print ...
<input type="checkbox"/>	Hybrid Print Management User	View and manage your own print jobs. This is the basic user role for Hy...
<input type="checkbox"/>	MSA System Management Admini...	Manage the MSA system.
<input type="checkbox"/>	MSA System Management User	View the core system metrics and operations data.
<input type="checkbox"/>	Print Management Guest User	Access to print with email submission only.
<input type="checkbox"/>	Print Release Management Admin...	Manage users, permissions, and organizational settings of Cloud Print ...
<input type="checkbox"/>	Print Release Management Report...	Access Cloud Print Management reporting data.
<input checked="" type="checkbox"/>	Print Release Management User	View and manage your own print jobs. This is the basic user role for Clo...

1 of 11 roles selected

Assign Roles Cancel

4 Click **Assign Roles**.

## Managing user badges

If users are authenticating at the printer, then set up a badge or PIN for each user. For more information on badge configuration, see [“Managing printer logins” on page 284](#).

### Assigning badges

If identity federation is used and badge IDs can be retrieved using claims from your identity management service, you can automatically populate badge IDs from the service.

**Note:** A user must log in to the Lexmark Cloud Services portal once before their badge ID is retrieved so that it can be used to authenticate at a printer.

If identity federation is not used or badge IDs are not available from your identity management service, then you can assign badge IDs in two ways. The method to use depends on how much of the process you want your users to participate in.

- **Assigned by an Organization Administrator or User Administrator in the Account Management portal**—Can be done manually, one user badge at a time, or by importing from a CSV file, for multiple user badges
- **Assigned by the user**—Can be done manually from the user’s My Accounts page, which requires users to provide their badge ID, or manually at the printer



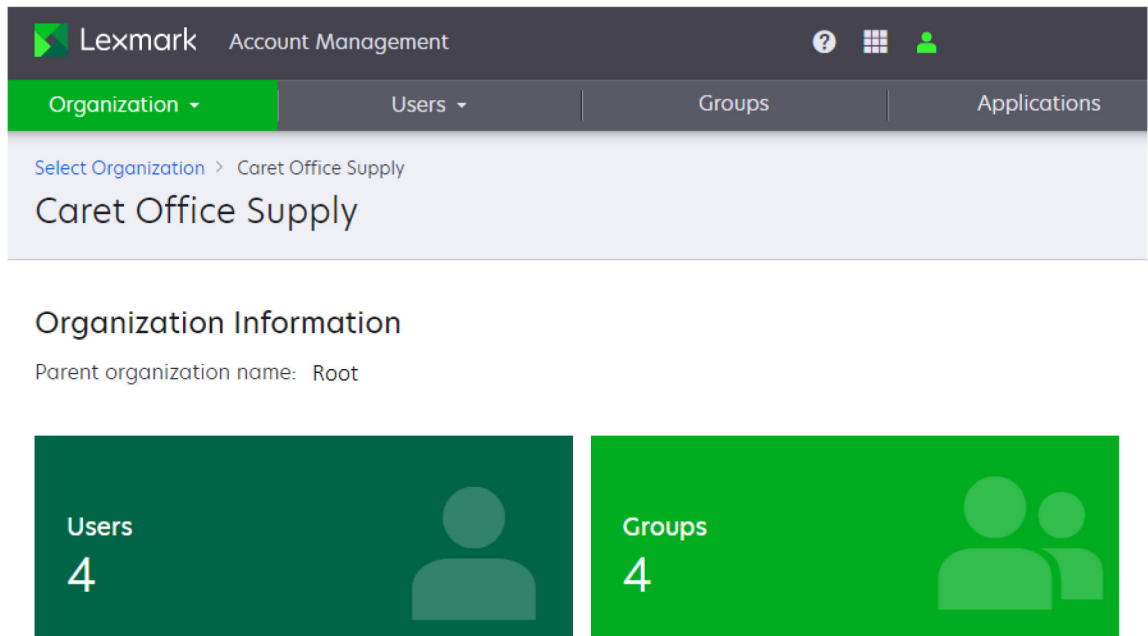
## Badges registered manually by an Organization Administrator or a User Administrator in the Account Management portal

- 1 From the Account Management portal, use any one of the following methods to access the Registered Badges page:

**Note:** If you are a channel partner with child organizations, then you must select the organization.

### Using the Users card in the Account Management portal

- a Click the **Users** card.




- b Click the email address of the user.



- c In the Printer Login section, for the Badges login, click **Edit**.

caretsally@outlook.com

 **Personal Information** [Edit](#)

**Display Name:** Sally Caret

**E-mail:** caretsally@outlook.com

**First Name:**


**Last Name:**

**Department:**


**Cost Center:**

**Last Login:** March 3, 2022 12:04 PM

[Reset Password](#)

 **Assigned Groups** [Edit](#)

No group assigned

 **Printer Login**


**Login Method:** PIN, Badges or Manual

**Manual:** Enabled

**Badges:** [Edit](#)

No badge registered

**PIN:** [Set PIN](#)

 **Assigned Roles** [Edit](#)

**User Roles:** 1

**Group Roles:** 0

**Organization Roles:** 1

- d Click **Register** or **Register Badge**.

Select Organization > Caret Office Supply > Users > caretsally@outlook.com > Registered Badges

## Registered Badges

[+ Register](#)
[Delete](#)

1 total badge

Registered	Description	Last Logged In	Badge Expires in
<input type="checkbox"/> March 7, 2022 8:24 AM		<waiting for log in>	<permanent>

1 total badge

< **1** >



Select Organization > Caret Office Supply > Users > caretsally@outlook.com > Registered Badges

## Registered Badges

There are currently no assigned badges.

Register Badge

**e** In the Register Badge window, enter the badge information.

### Using the Users menu

**a** From the Users menu, click **Manage Badge/PIN**.

**b** Click **Register** or **Register Badge**.

Lexmark Account Management

Organization Users Groups Applications

... > Caret Office Supply > Manage Badge/PIN

Search printer logins

Manage Badge/PIN

Login Method: Badge or PIN

Badges PINs

+ Register Delete Import

1 total badge

	E-mail	Registered	Description	Last Logged In	Badge Expires in
<input type="checkbox"/>	caretjim@outlook.com	February 19, 2022 8:32...		March 1, 2022 8:20 AM	<permanent>

1 total badge

**c** In the Register Badge window, enter the user's email address and the badge information.

**Note:** The user's email address must already exist in the organization.

**2** Click **Register Badge**.



## Badges imported by an Organization Administrator or a User Administrator in the Account Management portal

- 1 From the Account Management portal, use one of the following methods to access the Registered Badges page:

**Note:** If you are a channel partner with child organizations, then you must select the organization.

- 2 From the Users menu, click **Manage Badge/PIN**.
- 3 Click **Import Badges**.

Manage Badge/PIN

Login Method: Badge

There are currently no assigned badges.

Register Badge

Import Badges

- 4 In the Import Badges window, browse to the CSV or TXT file that contains the list of badges.

**Note:** For more information, see [“Managing users” on page 246](#).

Import Badges



Upload a CSV/TXT file that does not exceed 1MB.

Choose File



Supported file types: .csv and .txt

183 Bytes

Cancel

Import Badges

- 5 Click **Import Badges**.



## Badge registered by users through their My Account page

This action can only be performed by users for their own badge.

- 1 From the Lexmark Cloud Services portal, in the username menu, click **My Account**.
- 2 On the My Account page, in the Printer Login section, for the Badges login, click **Edit**.

The screenshot shows the Lexmark My Account page. The header includes the Lexmark logo, 'My Account', and a user profile for Sally Caret. The main content area is divided into four sections:

- Personal Information:**
  - Display Name: Sally Caret
  - E-mail: caretsally@outlook.com
  - First Name:
  - Last Name:
  - Department:
  - Cost Center:
  - Last Login: March 7, 2022 4:24 PM
- Assigned Groups:**
  - No group assigned
- Assigned Roles:**
  - User Roles: 1
  - Group Roles: 0
  - Organization Roles: 1
  - [View](#)
- Printer Login:**
  - Login Method: PIN, Badges or Manual
  - Manual: Enabled
  - Badges: [Edit](#)
  - Last Used: <never>
  - Last Registered: March 8, 2022 1:47 PM
  - Badges Registered: 1
  - Temporary: 0
  - Permanent: 1
  - PIN: [Set PIN](#)

- 3 Click **Register** or **Register Badge**.

The screenshot shows the 'Registered Badges' page. It includes a breadcrumb trail: Select Organization > Caret Office Supply > Users > caretsally@outlook.com > Registered Badges. Below the title, there are '+ Register' and 'Delete' buttons. A table lists the registered badges:

	Registered	Description	Last Logged In	Badge Expires in
<input type="checkbox"/>	March 7, 2022 8:24 AM		<waiting for log in>	<permanent>

Below the table, it says '1 total badge' and there is a pagination control showing '1' of 1 items.

- 4 In the Register Badge window, enter the badge information.



**5 Click Register Badge.**

Register Badge

E-mail

caretsally@outlook.com

E-mail must be unique

Badge ID

Badge description

☐ Show badge ID

☐ Temporary Badge

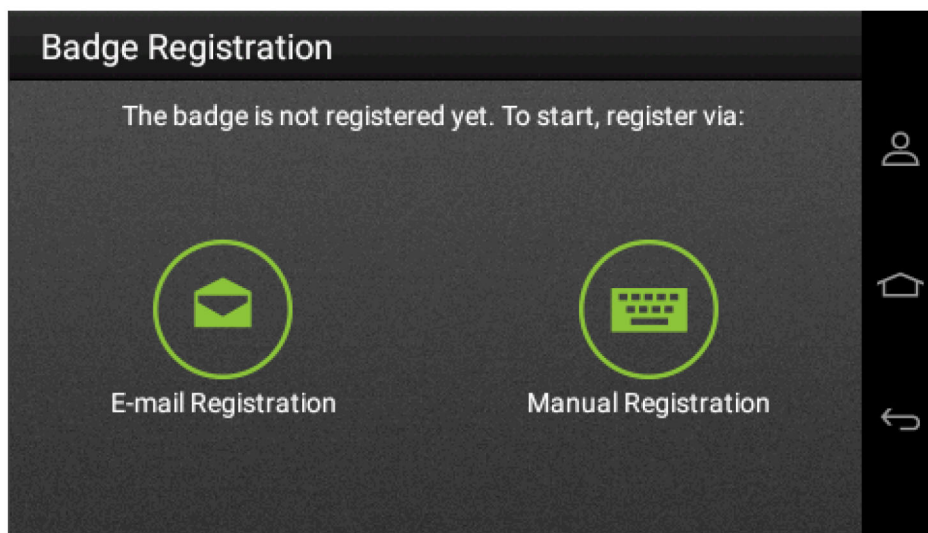
Cancel

Register Badge

**Badge registered by a user at the printer control panel**

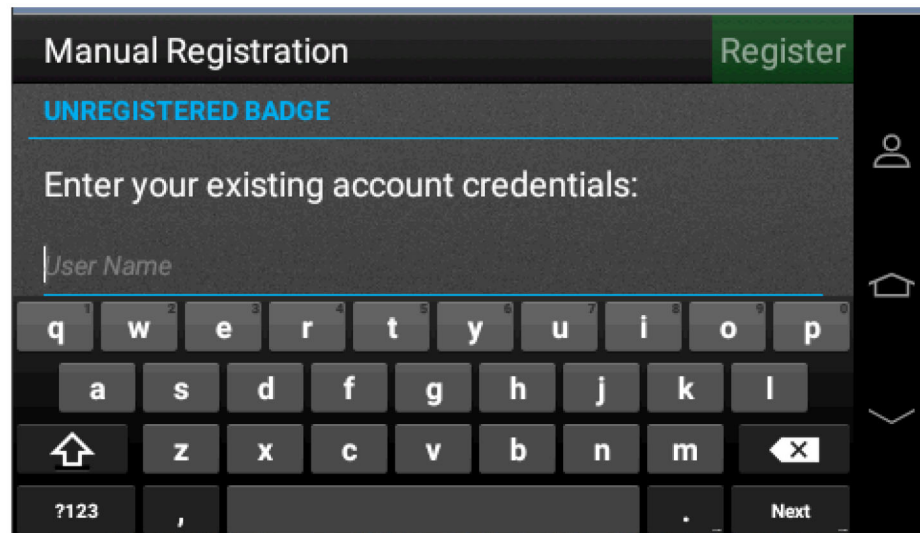
This action can only be performed by users for their own badge. Badges can be registered by users at the printer control panel using one of the following methods:

- Manual badge registration using your email address and password
  - 1 Tap your badge on a card reader that is attached to a printer.
  - 2 From the control panel, touch **Manual Registration**.



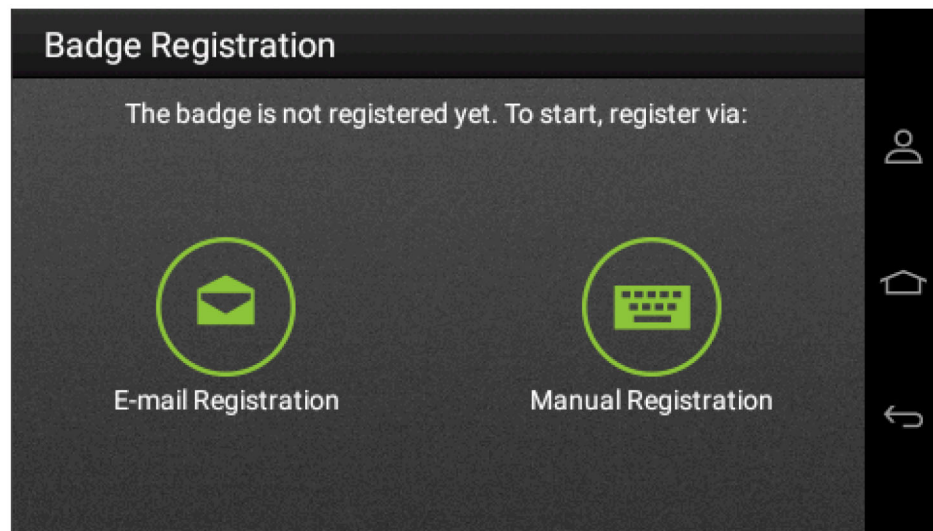


- 3 In the Enter your existing account credentials field, type your email address and password.

The image shows a mobile application screen titled "Manual Registration". In the top right corner, there is a green button labeled "Register". Below the title, the text "UNREGISTERED BADGE" is displayed in blue. The main instruction "Enter your existing account credentials:" is followed by a text input field labeled "User Name". A virtual QWERTY keyboard is visible at the bottom of the screen. On the right side, there is a vertical navigation bar with icons for a person, a home screen, and a back arrow.

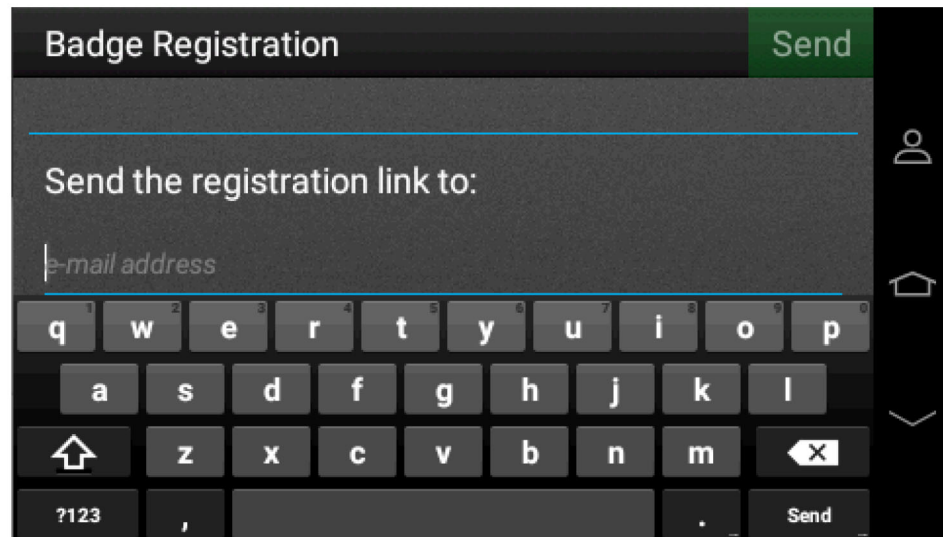
- 4 Touch **Register**.

- Email badge registration request sent from the printer
  - 1 Tap your badge on a card reader that is attached to a printer.
  - 2 On the control panel, touch **E-mail Registration**.

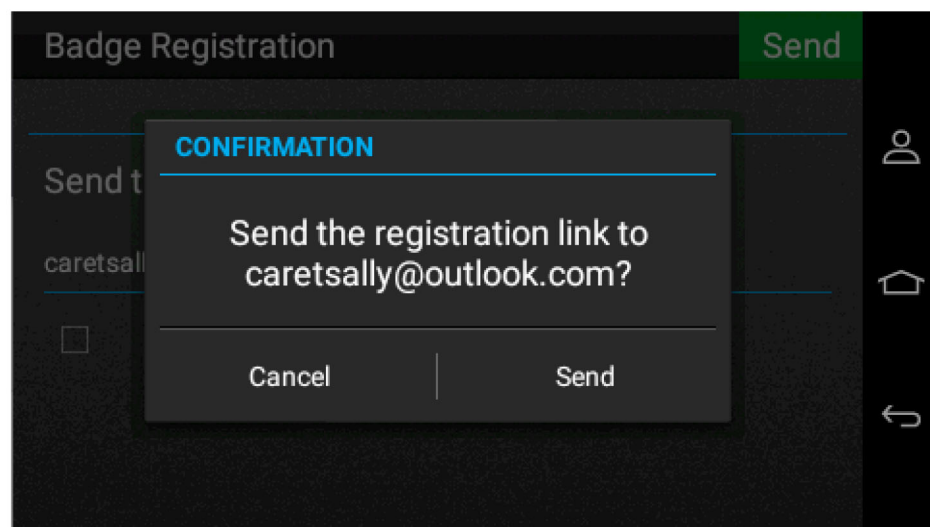




- 3 In the Send the registration link to field, type your email address.



- 4 Touch **Send** > **OK**.





- 5 Open your email account, and then click the badge registration link.



## Lexmark Cloud Badge Registration

Hello caretsally@outlook.com,

Welcome to Lexmark's Badge registration. Please click on the link below to complete the registration process.

[Badge Registration Link](#)

**Note:** The following screen appears for 5 seconds before logging you into the My Account page of Lexmark Cloud Services portal .

Badge Registration Confirmation



**Badge Registration Completed Successfully.**

Redirecting in 5 seconds...

[Click here to be manually redirected.](#)

## Managing user PINs

If users are authenticating at the printer, then set up a badge or PIN for each user. For more information on PIN configuration, see [“Managing printer logins” on page 284](#).

### Assigning PINs

If identity federation is used and PINs can be retrieved using claims from your identity management service, you can automatically populate PINs from the service.



**Notes:**

- A user must log in to the Lexmark Cloud Services portal once before their PIN is retrieved, and it can be used to authenticate at a printer.
- If PINs are retrieved from your identity management system, then you must set the PIN Generation menu to **Administrator manually set** and to **Never expire**.
- Any PIN changes made in Lexmark Cloud Services is temporary. These temporary PINs are overwritten from your identity management system when the user logs in the next time.

If identity federation is not used or PINs are not available from your identity management service, then you can assign user PINs in two ways. The method to use depends on how much of the process you want your users to participate in.

- **Assigned by an Organization Administrator or User Administrator in the Account Management portal**—Can be done manually, one user badge at a time, or by importing from a CSV file, for multiple user badges
- **Assigned by the user**—Can be done manually from the user's My Accounts page, which requires users to provide their PIN

**PIN assignment options**

PIN generation options	Administrator	User
Automatically generate and email	Can request Lexmark Cloud Services to generate a new PIN for users <sup>2</sup>	Can request Lexmark Cloud Services to generate a new PIN for themselves <sup>2</sup>
Administrator manually sets	Can set or reset user PINs	Must request a new PIN from an administrator <sup>1</sup>
User sets	Cannot set or reset user PINs	Can set or reset their own PIN
<sup>1</sup> Administrator applies to Organization Administrators and User Administrators.		
<sup>2</sup> PINs are sent to the user through email from Lexmark Cloud Services.		

**PINs assigned by an Organization Administrator or a User Administrator**

An Organization Administrator or a User Administrator can set PINs for users one at a time or for multiple users at once by importing a file. New or reset pins are emailed to the user.

**Note:** Make sure that PIN Generating Options is set to either **Automatically generate and email** or **Administrator manually sets**.

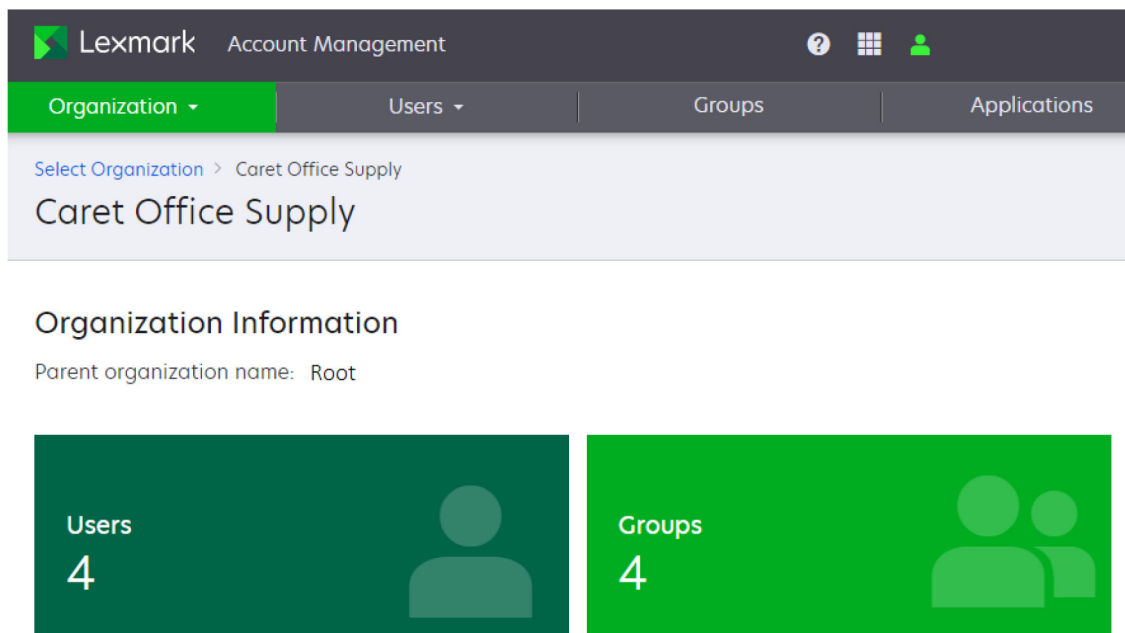


## Setting the PIN for a single user

The Organization Administrator or User Administrator can use one of the following methods to set or reset a PIN for a user:

- **Using the users list**

- 1 From the Account Management portal, select the **Users** card, or click **Users > Users**.




- 2 In the E-mail column, click the user email.



- 3 In the Printer Login section, for the PIN login, click either **Set PIN** or **Reset PIN**.

caretsally@outlook.com

 **Personal Information** [Edit](#)

**Display Name:** Sally Caret

**E-mail:** caretsally@outlook.com

**First Name:**


**Last Name:**

**Department:**

**Cost Center:**

**Last Login:** March 3, 2022 12:04 PM


[Reset Password](#)

 **Assigned Roles** [Edit](#)


**User Roles:** 1

**Group Roles:** 0

**Organization Roles:** 1

 **Assigned Groups** [Edit](#)

No group assigned

 **Printer Login**

**Login Method:** PIN, Badges or Manual

**Manual:** Enabled


**Badges:** [Edit](#)

No badge registered

**PIN:** [Set PIN](#)



caretsally@outlook.com

 **Personal Information** [Edit](#)

**Display Name:** Sally Caret

**E-mail:** caretsally@outlook.com

**First Name:**


**Last Name:**

**Department:**

**Cost Center:**

**Last Login:** March 3, 2022 12:04 PM


[Reset Password](#)

 **Assigned Roles** [Edit](#)


**User Roles:** 1

**Group Roles:** 0

**Organization Roles:** 1

 **Assigned Groups** [Edit](#)

No group assigned

 **Printer Login**

**Login Method:** PIN, Badges or Manual

**Manual:** Enabled

**Badges:** [Edit](#)

No badge registered

**PIN:** [Reset PIN](#)

- 4 Based on the option chosen in the PIN Generation Option for the Organization Printer Login Configuration, do any of the following:

**Note:** The result of clicking **Set PIN** or **Reset PIN** depends upon the PIN Generation Option chosen for the Organization Printer Login Configuration page.

- If **Automatically generate and email** is selected in the PIN Generation menu, then an email with the new PIN is sent as soon as you click **Set PIN** or **Reset PIN**.
- If **Administrator manually set** is selected in the PIN Generation menu, then a user must submit a request outside of Lexmark Cloud Services to an Organization Administrator or a User Administrator to set or reset their PIN.



- If **User set** is selected in the PIN Generation menu, then you can click **Set PIN** or **Reset PIN**, and then enter the new PIN, and then click **Generate PIN**.

Generate PIN

E-mail

caretsally@outlook.com

E-mail must be unique

PIN code

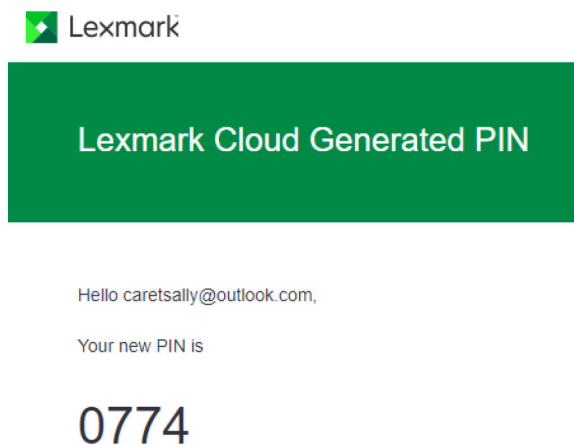
PIN must be of 4 characters long numeric

☐ Show PIN code

Cancel

Generate PIN

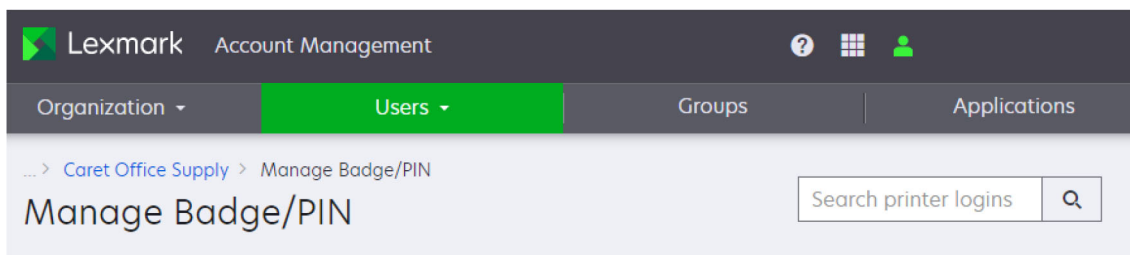
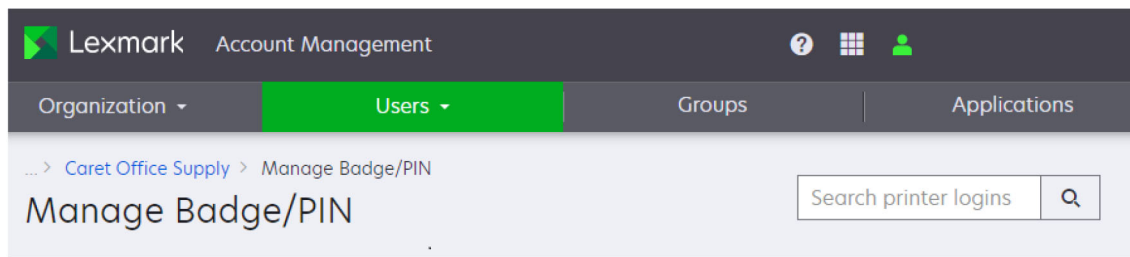
An example of PIN received by the user.



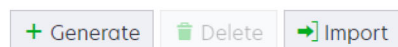
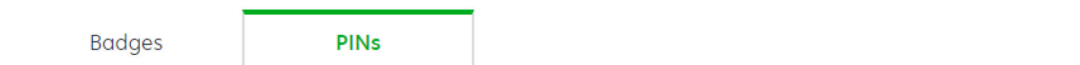
- **Using Manage Badge/PIN**

- 1 From the Account Management portal, click **Users** > **Manage Badge/PIN**.
- 2 Click the **PINs** tab.



**3** Click **Generate**.

Login Method: Badge or PIN



1 total badge

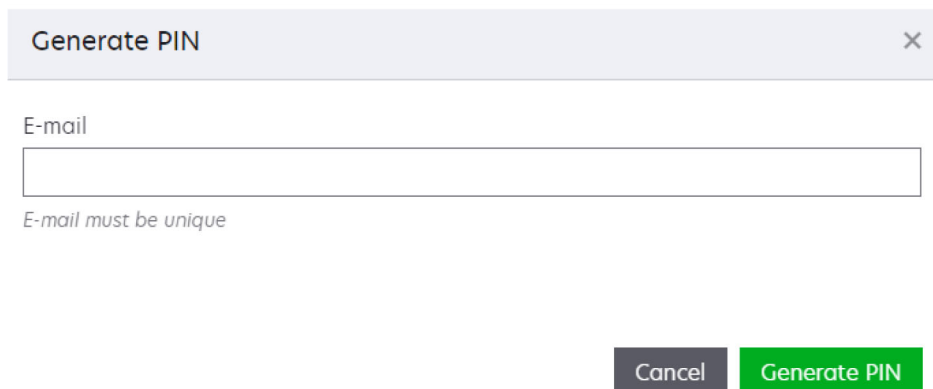
	E-mail	Generated	Last Logged In	PIN Expires in
<input type="checkbox"/>	caretjim@outlook.com	November 22, 2021 7:58 AM	November 23, 2021 8:47 AM	<never expires>

1 total badge





- 4 In the E-mail field, type the email address of the user, and then click **Generate PIN**.



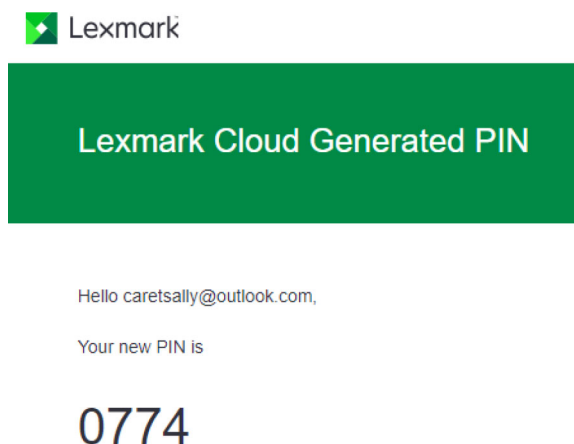
Generate PIN

E-mail

E-mail must be unique

Cancel Generate PIN

**Note:** The user receives an email with the PIN.



## Importing user PINs

The Organization Administrator or User Administrator can set the PIN for one or more users by importing the PINs using a CSV or TXT file.

### Notes:

- PINs can be imported when user accounts are created using the file import method.
- If PIN Generation Options is set to **Automatically generate and email**, then any PINs set in the imported file are ignored. The PIN field should be left empty.
- For more information on the CSV and the TXT file, see [“Sample CSV formats” on page 287](#).
- The headers of the import file are case-sensitive.
- Count the commas. All columns must be accounted for on each line of the import file.

The Organization Administrator or User Administrator can use one of the following file import methods to set or reset a PIN.

- **Using the users list**

- 1 From the Account Management portal, select the **Users** card, or click **Users > Users**.
- 2 Click **Import**.



**3** In the Import Users window, browse to the CSV or the TXT file that contains the users list.

**4** Click **Import Users**.

**Note:** The user receives an email with the PIN.

- **Using Manage Badge/PIN**

**1** From the Account Management portal, click **Users > Manage Badge/PIN**.

**2** Click the **PINs** tab.

**3** Click **Import** or **Import PINs**.

**4** In the Import PINs window, browse to the CSV or the TXT file that contains the PINs.

**5** Click **Import PINs**.

**Note:** The user receives an email with the PIN.



Lexmark Cloud Generated PIN

Hello caretsally@outlook.com,

Your new PIN is

0774

- How PIN data in the imported file is used depends on the PIN generation options selected on the Printer Login Configuration page.
  - If the Automatically generate and email option is selected , then PIN values in the imported file are ignored. Lexmark Cloud Services automatically creates a PIN for each user in the file.
  - In the Administrator manually set option is selected , then users are assigned the PIN value associated with their entry in the imported file.



## Setting PIN expiration

Administrators can select whether PINs will expire and how long before they expire by clicking **Organization** > **Printer Login Configuration**. If a PIN expires, then you must use one of the methods to reset the PIN. The PIN expiration and reset options depend on the selected PIN generation options.

- **Automatically generate and email**—You cannot set an expiration for the PINs.

### PIN Generation Options

Automatically generate and email ▼

*An auto generated PIN will be sent to users via e-mail. A user may request a new PIN.*

- **Administrator manually set or User set**—You can set the PIN to never expire or to expire after 1 to 48 hours or 1 to 180 days.

### PIN Generation Options

Administrator manually set ▼

*Administrator sets the PIN when importing users. A user cannot reset the PIN.*

☐ Never expires

☒ Expires after

−	5	+
---	---	---

*Range 1 to 180*


day(s) ▼

## PINs assigned by the user



Users can set or reset their PINs from their My Account page.

- From the username menu, select **My Account**. In the Printer Login section, you can view following:
  - Set PIN

 **Printer Login**


**Login Method:** PIN, Badges or Manual

**Manual:** Enabled

**Badges:** [Edit](#)  
*No badge registered*

**PIN:** [Set PIN](#)

- Reset PIN

 **Printer Login**

**Login Method:** PIN, Badges or Manual

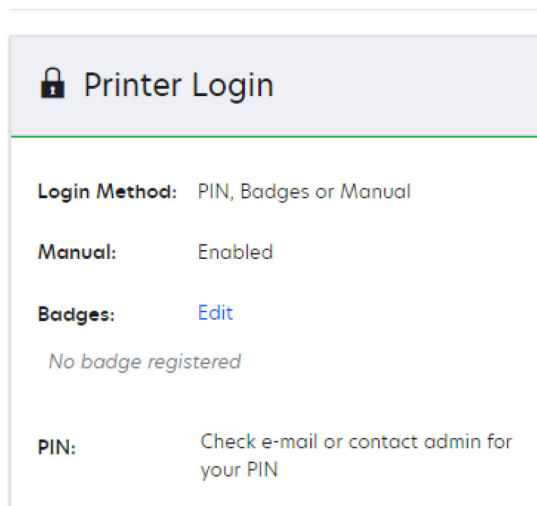
**Manual:** Enabled

**Badges:** [Edit](#)  
*No badge registered*

**PIN:** [Reset PIN](#)



- Check e-mail or contact administrator for your PIN



The screenshot shows a 'Printer Login' window with a lock icon. It displays the 'Login Method' as 'PIN, Badges or Manual'. Under 'Manual', it says 'Enabled'. Under 'Badges', there is a blue 'Edit' link and the text 'No badge registered'. At the bottom, the 'PIN' field shows the instruction 'Check e-mail or contact admin for your PIN'.

**Note:** If you do not currently have a PIN, then in the Printer Login section, click **Set PIN**. If you currently have a PIN, then click **Reset PIN**.

### Setting and resetting the PIN

Depending on the selected PIN generation option, clicking **Set PIN** or **Reset PIN** results in either of the following

- If PIN Generation Options is set to **Automatically generate and e-mail**, then Lexmark Cloud Services generates and emails a new PIN to the user.
- If PIN Generation Options is set to **User set**, then users are allowed to manually set or reset their PINs. They can do this task by entering a PIN with the required number of digits, and then clicking **Generate PIN**.

**Note:** If “Check e-mail or contact admin for your PIN” appears, then it means that PIN generation is manually set by the administrator. To set or reset their PIN, users must submit a request outside of Lexmark Cloud Services to an Organization Administrator or a User Administrator.

### Modifying user information

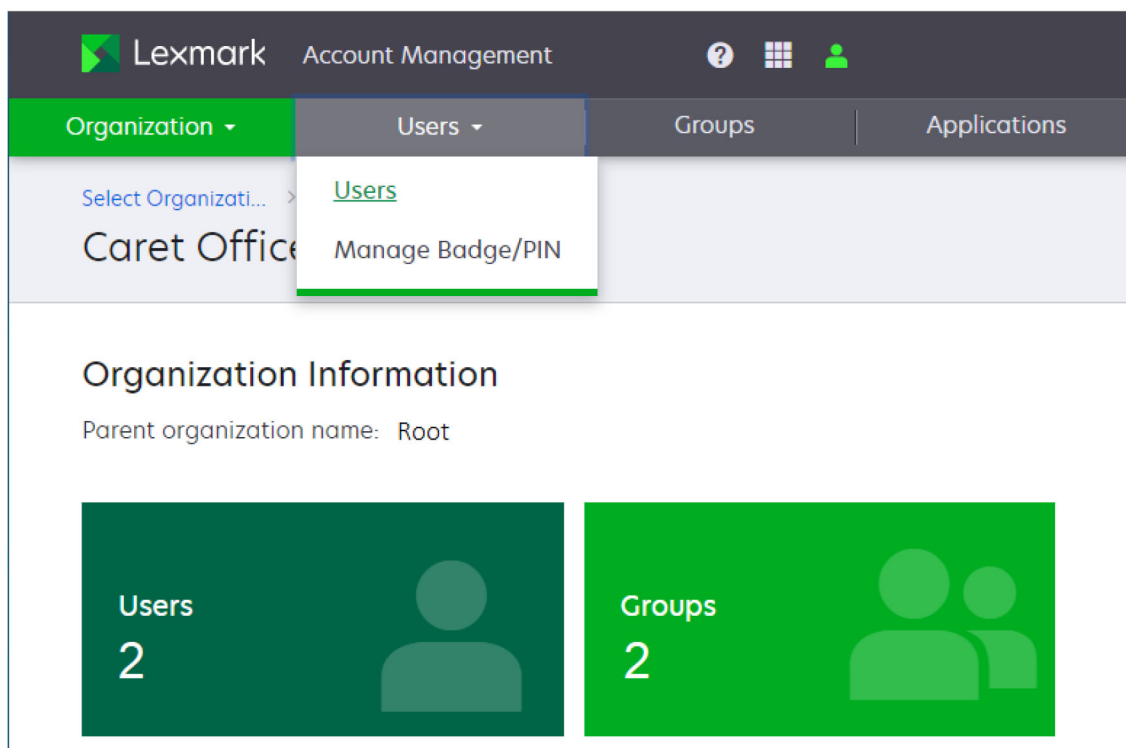
If Identity Federation is used, then user information is retrieved from your authentication provider through claims. Any changes made to this data in Lexmark Cloud Services are overwritten when the user logs in for the next time.

If Identity Federation is not used, or if claims from your authentication provider do not work, then modify user information by doing one of the following:

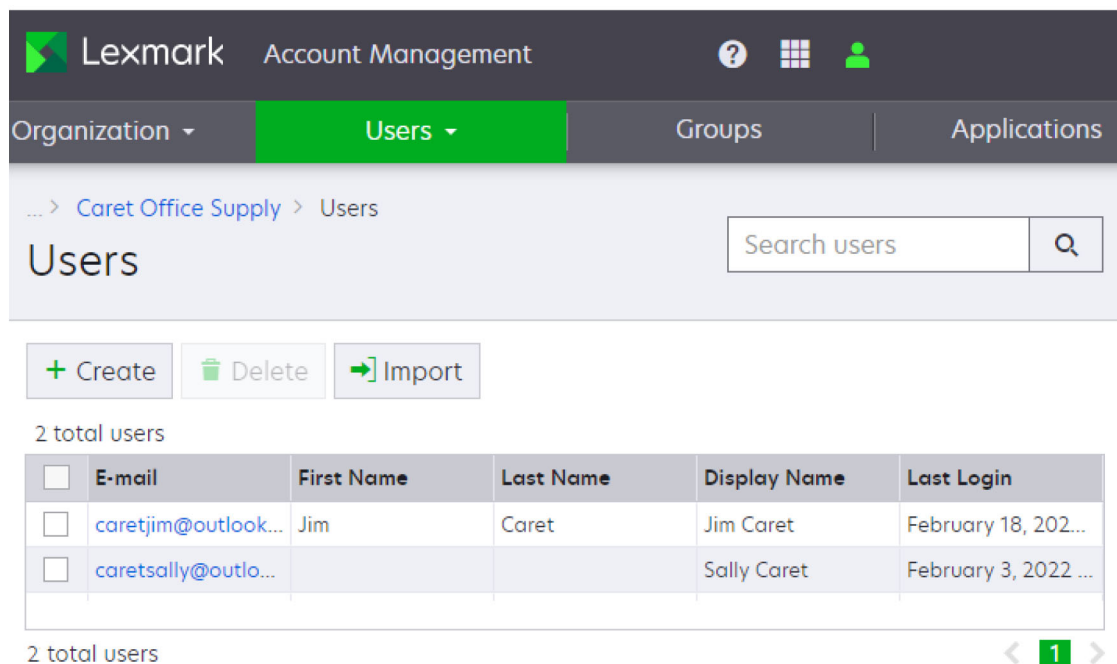


## Manually modify user information in the Account Management portal

- 1 From the Account Management portal, select the **Users** card or click **Users > Users**.



- 2 In the E-mail column, click the user email.





**3** In the Personal Information section, click **Edit**.

The screenshot displays the Lexmark Account Management interface. At the top, there is a navigation bar with the Lexmark logo and 'Account Management' text. Below this is a breadcrumb trail: 'Select Organization > Caret Office Supply > Users > caretjim@outlook.com'. The main content area is divided into four sections: 'Personal Information', 'Assigned Groups', 'Assigned Roles', and 'Printer Login'. The 'Personal Information' section shows fields for Display Name, E-mail, First Name, Last Name, Department, Cost Center, and Last Login, along with a 'Reset Password' button. The 'Assigned Groups' section shows 'No group assigned'. The 'Assigned Roles' section shows 'User Roles: 7', 'Group Roles: 0', and 'Organization Roles: 1'. The 'Printer Login' section shows 'Login Method: Badge + PIN as a second factor', 'Badges: 1', 'Last Used: February 19, 2022 8:49 PM', 'Last Registered: February 19, 2022 8:32 PM', 'Badges Registered: 1', 'Temporary: 0', 'Permanent: 1', and 'PIN: Reset PIN'.

**Lexmark Account Management**

Organization Users Groups Applications

Select Organization > Caret Office Supply > Users > caretjim@outlook.com

caretjim@outlook.com

**Personal Information** [Edit](#)

Display Name: Jim Caret  
E-mail: caretjim@outlook.com  
First Name: Jim  
Last Name: Caret  
Department:  
Cost Center:  
Last Login: February 18, 2022 1:58 PM

[Reset Password](#)

**Assigned Groups** [Edit](#)

No group assigned

**Assigned Roles** [Edit](#)

User Roles: 7  
Group Roles: 0  
Organization Roles: 1

**Printer Login**

Login Method: Badge + PIN as a second factor

Badges: [Edit](#)  
Last Used: February 19, 2022 8:49 PM  
Last Registered: February 19, 2022 8:32 PM  
Badges Registered: 1  
Temporary: 0  
Permanent: 1

PIN: [Reset PIN](#)



4 In the Personal Information page, enter the information, and then click **Update Profile**.

Lexmark Account Management

Organization ▾ Users ▾ Groups Applications

Select Organization > Caret Office Supply > Users > caretjim@outlook.com > Personal Information

## Personal Information

E-mail

caretjim@outlook.com

*E-mail must be unique*

First Name

Jim

Last Name

Caret

Display Name

Jim Caret

Department

Cost Center

**Update Profile** Cancel

### Import changes to user information using a CSV file

Use this method if you want to modify multiple user accounts simultaneously. The Import feature lets you create, update, and delete multiple users in an organization using a CSV or TXT file. You can also create user groups, and then assign a user to those groups. For more information, see [“Managing users” on page 246](#).

When importing, note the following:

- Use the **UPDATE** command to modify the information of an existing user account.
- The headers of the import file are case-sensitive.
- Count the commas. All columns must be accounted for each line of the CSV file.
- The size of the CSV file must not exceed 1MB.



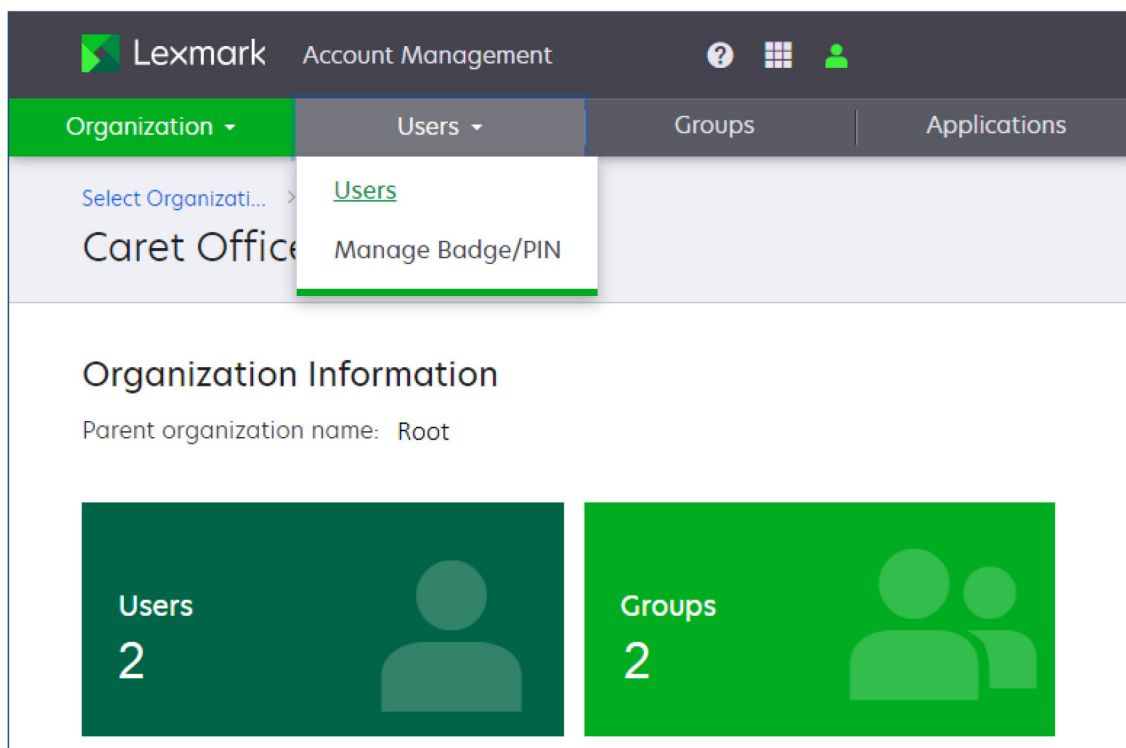
## Deleting user accounts

If Identity Federation is used, then a user's account can only be permanently deleted from your authentication provider. A user account that is deleted only from Lexmark Cloud Services is restored when the user logs in the next time.

If Identity Federation is not used, then you can delete user accounts by doing one of the following:

### Manually delete the user account in the Account Management portal

- 1 From the Account Management portal, select the **Users** card or click **Users > Users**.





**2** Select the user, and then click **Delete**.

Lexmark Account Management

Organization ▾ **Users ▾** Groups Applications

... > Caret Office Supply > Users

Users  🔍

+ Create Delete Import

1 of 2 users selected

<input type="checkbox"/>	E-mail	First Name	Last Name	Display Name	Last Login
<input type="checkbox"/>	caretjim@outlook...	Jim	Caret	Jim Caret	February 18, 202...
<input checked="" type="checkbox"/>	caretsally@outlo...			Sally Caret	February 3, 2022 ...

1 of 2 users selected < 1 >

**3** Click **Delete User**.

⚠ Delete User ×

Do you want to delete caretsally@outlook.com?

Cancel Delete User

## Delete user information by importing a file in the Account Management portal

For more information, see [“Managing users” on page 246](#).

# Enroll your printers

## Fleet Management roles

The Fleet Management Administrator and File Service Administrator roles must be assigned to users who access the Fleet Management portal and enroll and manage printers

**Note:** You must have the User Administrator or Organization Administrator role to assign these roles to users.

## Fleet Management roles for channel partners

Channel partners who manage printers in their customers' organizations must be members of a Child Organization Access Group. The group must have the Fleet Management Administrator and File Service Administrator roles assigned to it.

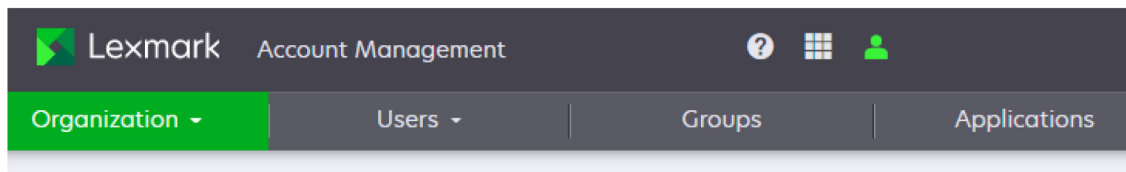


**Notes:**

- You must have the User Administrator or Organization Administrator role to create and manage Child Organization Access Groups.
- Roles assigned through membership in a Child Organization Access Group apply across all customer organizations.

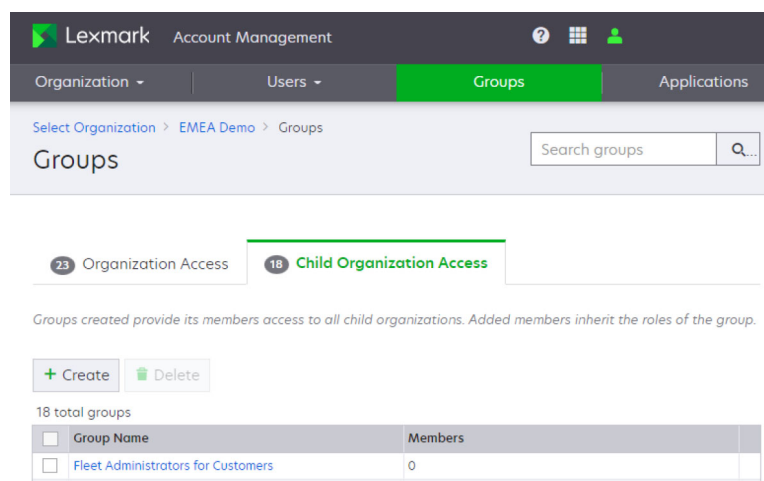
**Creating Child Organization Access Groups**

- 1 From the Account Management portal, click **Groups** tab.



- 2 Click the **Child Organization Access** tab.

- 3 Click **Create**.

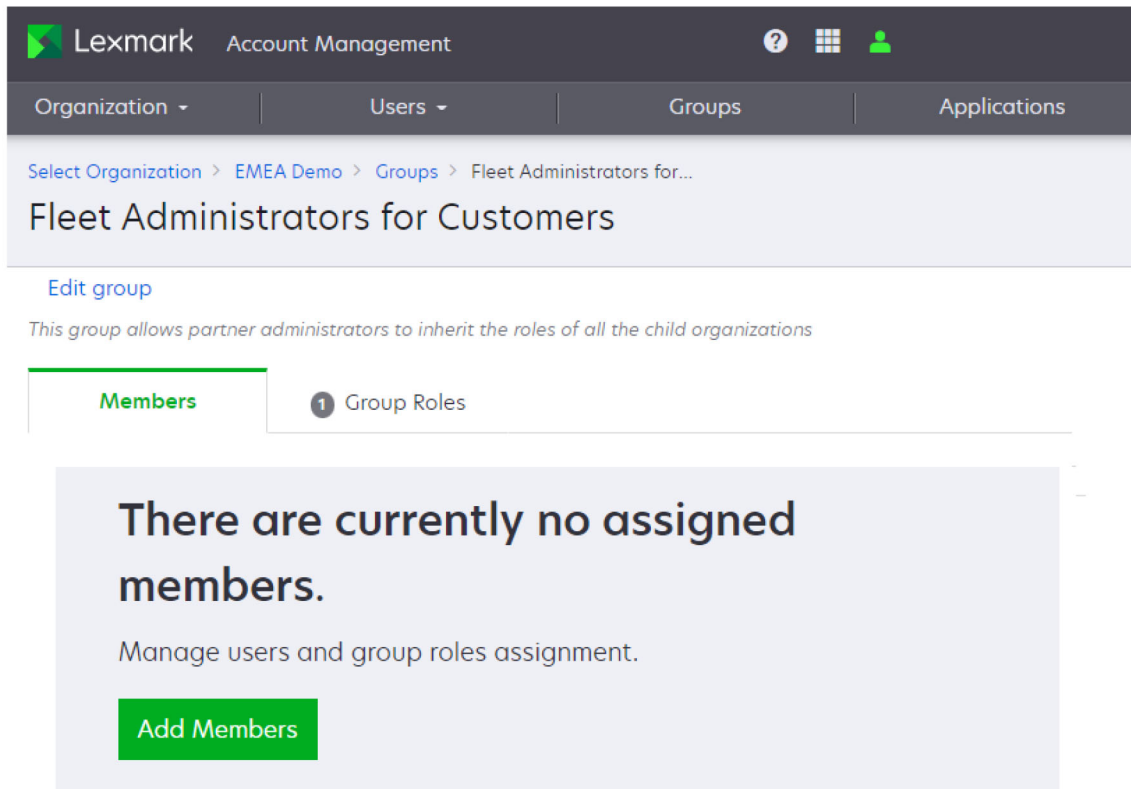


- 4 In the Group name field, type the name of the group, and then click **Create Group**.

- 5 Click the name of the group.



**6** Click **Add** or **Add Members**.




**7** Select one or more members, and then click **Add Members**.

**8** Click the **Group Roles** tab.

**9** Click **Assign**.

**Note:** By default, the Partner Administrator role is assigned to all Child Organization Access Groups.



 Lexmark

Account Management

?

Organization ▾

Users ▾

Groups

Applications

Select Organization > EMEA Demo > Groups > Fleet Administrators for...

Fleet Administrators for Customers

Edit group

This group allows partner administrators to inherit the roles of all the child organizations

Members

3

 Group Roles

+ Assign

Remove

3 total roles

(1)

<input type="checkbox"/>	Role Name	Description
<input type="checkbox"/>	<a href="#">File Service Administrator</a>	Access the file management system when paired with the Fleet Manage...
<input type="checkbox"/>	<a href="#">Fleet Management Administrator</a>	Discover, enroll, manage, and deploy configurations to printers.
<input checked="" type="checkbox"/>	<a href="#">Partner Administrator</a>	Manage customer organizations and their users.

3 total roles

<

1

>



- 10 From the Custom Roles list, select **Fleet Management Administrator** and **File Service Administrator** roles, and then click **Assign Roles**.

Lexmark Account Management

Organization Users Groups Applications

Select Organization > EMEA Demo > Groups > Fleet Administrators for... > Assigned Roles > Assign Roles

## Assign Roles

### System Roles

4 total roles (1)

<input type="checkbox"/>	Role Name	Description
<input type="checkbox"/>	Help Desk	View users, badges, groups, applications, PINs, and organization information.
<input type="checkbox"/>	Organization Administrator	Manage the organization and its users.
<input type="checkbox"/>	User	View and manage your own account information. This is the default role.
<input type="checkbox"/>	User Administrator	Manage users in the organization.

4 total roles < 1 >

### Custom Roles

2 of 11 roles selected

<input type="checkbox"/>	Role Name	Description
<input checked="" type="checkbox"/>	File Service Administrator	Access the file management system when paired with the Fleet Manage...
<input checked="" type="checkbox"/>	Fleet Management Administrator	Discover, enroll, manage, and deploy configurations to printers.
<input type="checkbox"/>	Fleet Management Reporting Anal...	Access Fleet Management reporting data.
<input type="checkbox"/>	Hybrid Print Management Administ...	Manage users, permissions, and organizational settings of Hybrid Print M...
<input type="checkbox"/>	Hybrid Print Management User	View and manage your own print jobs. This is the basic user role for Hybri...
<input type="checkbox"/>	MSA System Management Adminis...	Manage the MSA system.
<input type="checkbox"/>	MSA System Management User	View the core system metrics and operations data.
<input type="checkbox"/>	Print Management Guest User	Access to print with email submission only.
<input type="checkbox"/>	Print Release Management Adminis...	Manage users, permissions, and organizational settings of Cloud Print M...
<input type="checkbox"/>	Print Release Management Reporti...	Access Cloud Print Management reporting data.
<input type="checkbox"/>	Print Release Management User	View and manage your own print jobs. This is the basic user role for Clou...

2 of 11 roles selected < 1 >

**Assign Roles** **Cancel**

## Selecting an agent

The first step in enrolling printers is to decide which agent or agents to use. You may choose from the Native Agent, Fleet Agent, Printer Agent, or Local Agent.

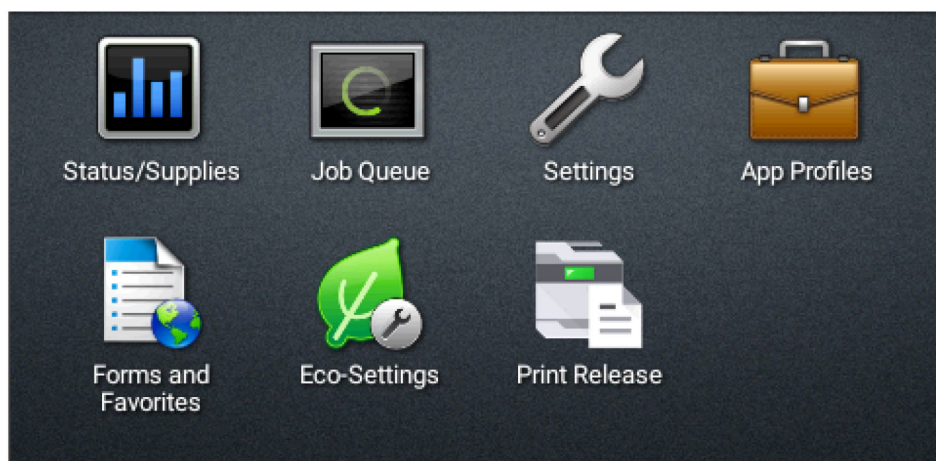
**Note:** Collectively, the agents are referred to as Cloud Bridge.



## Native Agent

The Native Agent is built into the printer firmware. It is available on all current-generation Lexmark printers. The control panel on current-generation Lexmark printers has a dark background.

Sample of the control panel from a current-generation printer that supports the Native Agent.



- Requires firmware 081.215 or later is required. For more information, see [“Viewing the printer firmware version” on page 48](#).
- Supports data collection and configuration on all current generation printers.
- Supports the deployment of eSF applications on current generation, touch-screen printers. For more information, see [“Supported printer models” on page 30](#).
- Native Agent-capable printers can be enrolled using the following methods:
  - Cloud-based pre-enrollment
  - Printer-based enrollment
  - Printer Enrollment Tool (PET)
- Requires the printers to have a constant Internet connection.
- Uses Internet of Things (IoT) technology to reports printer data to the cloud.

## Fleet Agent

The Fleet Agent is an application that is configured and installed on an on-site server or host computer. It enrolls Lexmark and third-party printers to the Lexmark Cloud Services.

- Uses Internet of Things (IoT) technology to report printer data to the cloud.
- Requires a stable, high-availability server or host computer with a constant Internet connection and with the following minimum specifications:

Operating system	x86, x64-bit or Linux 64-bit
Processor	1Ghz dual-core
RAM	2GB
Storage	32GB (Fleet Agent requires 12GB of storage)

- Supports printer configuration and data collection with Lexmark printers. For more information, see [“Supported printer models” on page 30](#). Data collected and printer configuration capabilities may vary by model.



- Data is collected over Simple Network Management Protocol (SNMP) from the public and private printer MIBs available on the enrolled printers.
- Supports data collection for some third-party printers. Data collected varies by manufacturer and model.

## Printer Agent

### Printer Agent

The Printer Agent, also referred to as embedded agent, uses an embedded application, the Printer Configuration Agent (PCA), installed on each Lexmark printer. The Printer Configuration Agent collects and sends the printer information to Lexmark Cloud Services.

- Requires running the Printer Enrollment Tool on a network connected computer to discover and enroll printers.
- Supports data collection and configuration on Lexmark touch-screen printers with eSF version 3.0 or later. For more information, see [“Supported printer models” on page 30](#).
- Requires the printers to have a constant Internet connection.
- Uses Internet of Things (IoT) technology to report asset inventory (meters, counters, and supplies) data. If the IoT hosts are blocked during enrollment, then this agent reverts to the https path.

## Local Agent

### Local Agent

The Local Agent is an application configured and installed on a Windows computer system that has USB-attached printers. It enrolls locally attached Lexmark printers into Lexmark Cloud Services. It uses an Internet of Things (IoT) connection to communicate with Lexmark Cloud Services.

- Automatically discovers and enrolls USB-connected, Lexmark printers.
- Uses Internet of Things (IoT) technology to report asset inventory (meters, counters, and supplies) data.
- Supports Windows 64-bit and 32-bit operating systems.

## Comparing agents

To make sure that you have an optimal experience in enrolling and managing your print fleet, select the correct agent for your specific needs.

- If managing a current-generation Lexmark touch-screen printer with eSF version 5.0 or later, then use the Native Agent, Fleet Agent, or Printer Agent.
- If managing Lexmark touch-screen printers with eSF version 3.0 or later, then use either the Printer Agent or the Fleet Agent.
- If managing a group of touch-screen and non-touch-screen Lexmark printers, then use the Fleet Agent.
- If managing a group of Lexmark and third-party printers, then use the Fleet Agent.
- If managing USB-connected Lexmark printers, then use the Local Agent.
- If eSF applications cannot be installed on the printers to be managed, then use the Fleet Agent.
- If an on-site server or host computer cannot be used, then use either the Printer Agent or the Native Agent.
- All agents may be used in the same organization at the same time.
- A printer can only be managed by one agent.



Scenario	Native Agent	Fleet Agent	Printer Agent	Local Agent
Uses an agent native to printer firmware	✓	X	X	X
Uses an application running on an Internet-connected, on-site server or host computer	X	✓	x	X
Uses an embedded application running on enrolled printers	X	X	✓	X
Supports USB-connected printers	X	X	X	✓
Internet connection required for printers	✓	✓	✓	X
Uses Internet of Things (IoT) technology	✓ <sup>1</sup>	✓ <sup>3</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>
Supports data collection and configuration in Lexmark printers with eSF version 5.0 or later (touch-screen models)	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	X
Supports data collection and configuration in Lexmark printers with eSF version 3.0 (touch-screen models)	X	✓ <sup>4</sup>	✓ <sup>4</sup>	X
Supports data collection and configuration for Lexmark printers with eSF version 2.0	X	✓ <sup>4</sup>	X	X
Supports data collection for non-eSF Lexmark printers	✓ <sup>4</sup>	✓ <sup>4</sup>	X	✓ <sup>5</sup>
Supports data collection from third-party printers	X	✓	X	X
Requires a user account on the printer with administrative access	X	X	✓	X
Performs data collection over SNMP	X	✓	X	X
<sup>1</sup> All printer-cloud communications use IoT. IoT support is resident in the printer firmware. <sup>2</sup> IoT default communications path for asset inventory (meters and counters) data. If IoT connection cannot be established, then an https path is supported. <sup>3</sup> All cloud communications use IoT. <sup>4</sup> For more information, see <a href="#">“Supported printer models” on page 30</a> . <sup>5</sup> When the printer is connected to a workstation through USB.				

## Before enrolling

To make sure that the enrollment of printers is successful, do the following::

- Make sure that the printer to be enrolled supports the agent to be used. For more information, see [“Supported printer models” on page 30](#).
- If a firewall or proxy is used, then add the proper host names to the Allow List.
- If the printer was previously used at another customer site, then unenroll the printer from its current organization in the Cloud Fleet Management portal. If necessary, also erase the printer memory.

When erasing printer memory, note the following:

- Unenrolling must be performed the first time a printer is enrolled with a customer.
- Any configuration settings or customer data related to a prior installation is deleted. For more information, see [Erasing printer memory.](#)
- Make sure that all printers are online and in the Ready state with no unresolved errors, such as paper jams or incorrect email configurations.



- The printer firmware is updated to the latest recommended version.
- Printer permissions are set correctly.
- Printer login credentials for secure printers are available.
- Printer SNMP configurations are available.
  - When using the Fleet Agent, SNMP v3 must be enabled on eTask version 5.0 and higher printers.
  - By default, SNMP v3 must be enabled on these models.
  - SNMP v3 does not have to be configured. It must be enabled.
- Make sure that Firewall, DHCP, and DNS settings are correct.
- The date and time are configured correctly, preferably using a network time protocol server.
- If possible, enroll printers during off hours when the printers are not being used.
  - Firmware and configuration deployments from Cloud Fleet Management following enrollment may briefly take the printer offline.

## Using the Native Agent

### Enrolling printers with Native Agent

The Native Agent is available on all current-generation Lexmark printers that are Internet of Things (IoT)–capable. It is built into the firmware for any printer running firmware version 075.272 or later. The Native Agent can be used to enroll Lexmark printers in Lexmark Cloud Services. No applications are required to be installed on the printer or to run on an on-premises server or hosted computer. The printer must have a constant Internet connection. For more information on supported models, see [“Supported printer models” on page 30](#).

You can enroll printers with the Native Agent using the Printer Enrollment Tool (PET), cloud-based pre-enrollment, or printer-based enrollment.

- **Printer Enrollment Tool**—Can be used to enroll any current-generation IoT-capable Lexmark printers. If you are unable to enroll the printer using the Cloud-based pre-enrollment or printer-based enrollment methods, then PET must be used.
- **Cloud-based pre-enrollment**—Lets you specify Lexmark printers that you want to enroll. In this process, you enter an enrollment code at the printer. The enrollment code is obtained from the Fleet Management portal for an organization and can be used to enroll all pre-enrolled printers for that organization. The list of pre-enrolled printers can be entered one at a time or imported from a CSV or TXT file before going on-site. This method is useful for large printer deployments because you can perform much of the needed work in advance.
- **Printer-based pre-enrollment**—Lets you initiate the enrollment at the printer. You obtain an enrollment code from the printer and enter it in the Fleet Management portal. This method is useful if you are deploying only a few printers or do not know in advance the serial numbers of the printers to be deployed.



## Enrolling printers using the Printer Enrollment Tool

The Printer Enrollment Tool (PET) can be used to enroll any current-generation IoT-capable Lexmark printers with the Native Agent. Use this method when enrolling older models of the current-generation printers or if you cannot enroll printers using the cloud-based pre-enrollment or printer-based enrollment methods.

### Downloading the Printer Enrollment Tool

If you do not have a copy of the PET, download it from the Cloud Fleet Management portal.

- 1 From the Fleet Management web portal, do one of the following:
  - If some printers are already enrolled, then click **Printers > Enroll Printer using > Printer Agent > Download PET**.
  - If enrolling printers for the first time, then click **Use Printer Agent > Download PET**.
- 2 Accept and download the End User License Agreement (EULA).
- 3 Extract the compressed folder.

### Using the Printer Enrollment Tool


- 1 Run the Printer Enrollment Tool launcher.
- 2 Log in using the same email address and password used to connect to the Cloud Fleet Management portal.

**Note:** If a newer version of the PET is available, then you will be prompted to download it.

Update Available

A new version of this tool has been released.

Download New Version

- 3 If you manage multiple organizations, then select the organization, and then click **Next**.
- 4 Click  on the upper-right corner of the page, and then configure the following:
  - **Discover and enroll native agent-capable printers using**—Determines whether Native Agent-capable printers are enrolled using the Native Agent or Printer Agent.
  - **Time out for Printer Discovery**—Determines how long the PET waits for a response to each network broadcast. The value can be increased to improve printer discovery in slow networks.
  - **Time out for Printer Enrollment**—Determines how long the PET waits for the Printer Agent to enroll the printer. The value can be increased to improve the printer enrollment process of older printers.
  - **Logging detail levels**—Set the logging level to **Detailed**.
  - **SNMP settings**—The SNMP settings in the PET must match those of the printers to be discovered.

**Note:** Printer discovery first occurs using mDNS, and then by Simple Network Management Protocol (SNMP). If SNMP discovery is desired, then mDNS must be disabled on the printers.



Settings

General Settings

Discover and enroll native agent-capable printers using

Printer agent

*This setting only applies to new enrollments.*

Timeout for printer discovery

-

5

+

*How long the discovery process runs before timing out. Range: 1 to 600 seconds. Recommended starting value: 5 seconds.*

Timeout for printer enrollment

-

300

+

*How long the application will attempt to enroll a printer. Range: 60 to 499 seconds*

Logging detail

Summary

☒ Detailed

[View current log](#)

SNMP Settings

Version 1/2c

Community String

☒ 'public' ☐ Custom value

Cancel




Reset

Save Settings

5 From the Discovery Type menu, select any of the following:

Printer Enrollment Tool 2.7.0-7 | Lexmark Cloud Services

Lexmark

   English

Organization Selection

Printer Discovery

Printer Enrollment

Enrollment Summary

Caret Office Supply

Discovery Type

Search local network

Search local network

Advanced search

Back

Discover Printers



- **Search local network**—Finds all printers on your local subnet. Use this method if you have several printers on the subnet but you do not know their network parameters. This method may take several minutes to complete.
- **Advanced search**—Lets you refine the search by specifying network parameters to find printers. Use this method if you have a small number of printers or if the network parameters of the printers are known. This method is usually faster than the Search local network method.

The following are the network parameters:

- Specific IP address
- Subnet
- Range
- Fully qualified domain name (FQDN)

**Notes:**

- To discover printers successfully, make sure that mDNS is enabled on the printer or that the SNMP configurations of the PET and the printers match.
- Printers in the Eligible to Enroll tab can be enrolled with the Native Agent if their agent type is set to Native.

Eligible to Enroll (2)					
Enrolled (0)					
Unsupported (0)					
<input type="checkbox"/>	Address	Model	Serial Number	Agent Type	Info
<input type="checkbox"/>	192.168.86.22	Lexmark CS725	50285510100T1	Native	
<input type="checkbox"/>	192.168.86.29	Lexmark MX410de	7015207200004	Printer	

**6** Select one or more printers to enroll, and then click **Enroll Printers**.

**Note:** The selected printers do not have to be of the same agent type. Each selected printer is enrolled using the indicated agent type.

**7** If necessary, log in to access the printer Embedded Web Server, and then click **Apply Credentials**. Otherwise, click **Skip This Step**.

**Note:** Login credentials can be applied to limit access to printer settings to authorized individuals only.

**Notes:**

- When using a Native Agent or Printer Agent and a Fleet Agent or multiple Fleet Agents within the same organization, care should be taken while defining the Printer Discovery settings. Only one agent can manage a printer. If overlapping Printer Discovery criteria exist, then printers may not be managed by the intended agent.
- The enrollment process may take several minutes to complete.
- After successful enrollment, wait several minutes for the printers to appear in the Cloud Fleet Management printers list.



## Cloud-based pre-enrollment

Cloud-based Native Agent pre-enrollment lets you specify in advance the Lexmark printers that you want to enroll. You only need to enter an enrollment code at the printer. The enrollment code is obtained from the Fleet Management portal for an organization and can be used to enroll all pre-enrolled printers for that organization. The list of pre-enrolled printers can be entered one at a time or imported from a CSV or TXT file. This method is useful for large printer deployments.

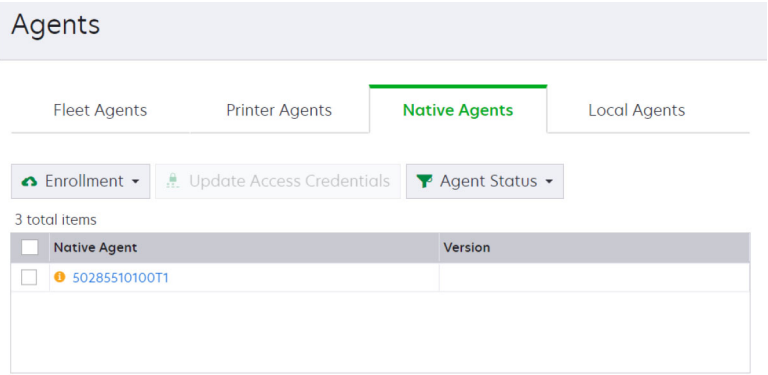
Pre-enroll printers by doing the following:

- Entering their serial number in the Cloud Fleet Management portal
- Obtaining the organization’s enrollment code
- Applying the organization’s enrollment code to the printer, using the control panel or the Embedded Web Server (EWS)

**Note:** Cloud-based pre-enrollment is supported only in current-generation IoT-capable Lexmark printers. If enrollment using this method is unsuccessful, then enroll using the Printer Enrollment Tool.

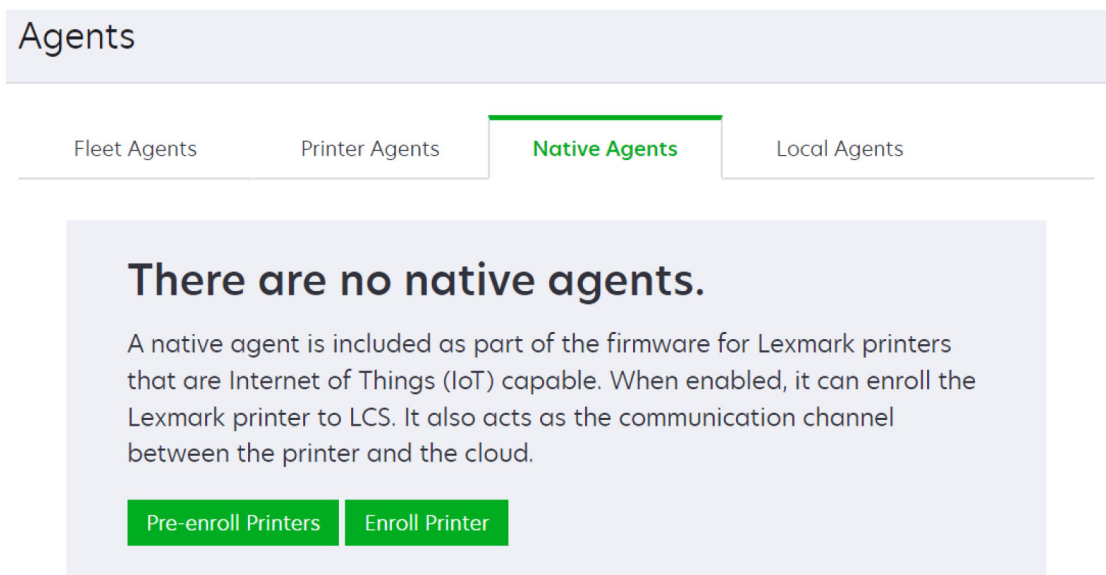
### Entering printer serial numbers in the Cloud Fleet Management portal

- 1 From the Fleet Management web portal, do one of the following:
  - If some printers are already enrolled, then click **Agents > Native Agents > Enrollment > Pre-enroll > Pre-enroll printers**.



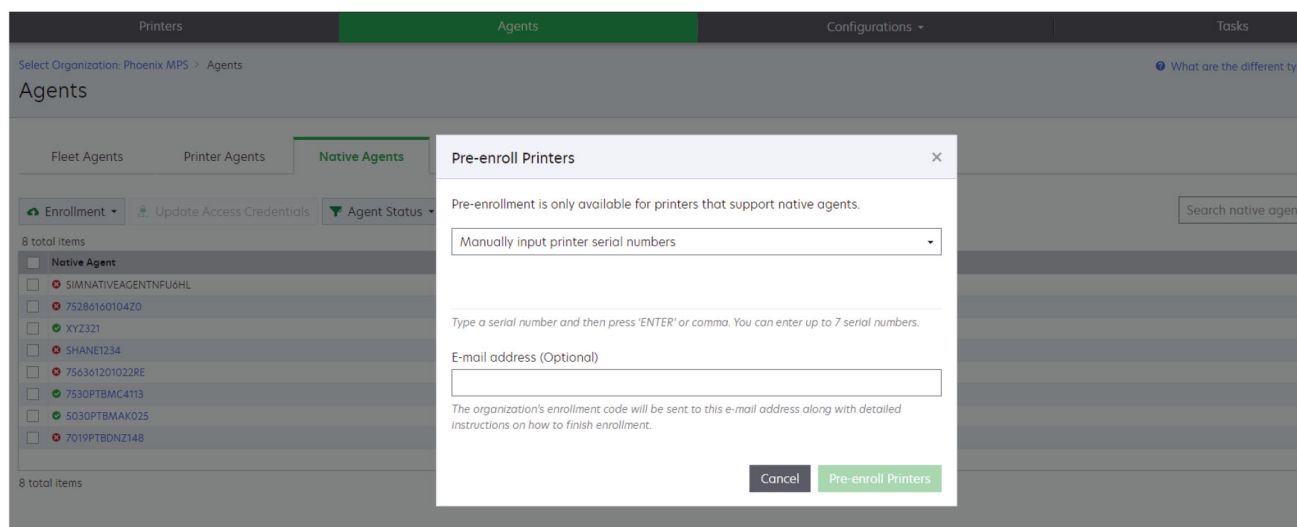


- If enrolling printers for the first time, then click **Agents > Native Agents > Pre-enroll Printers**.



**2** From the Pre-enroll Printers dialog, do one of the following:

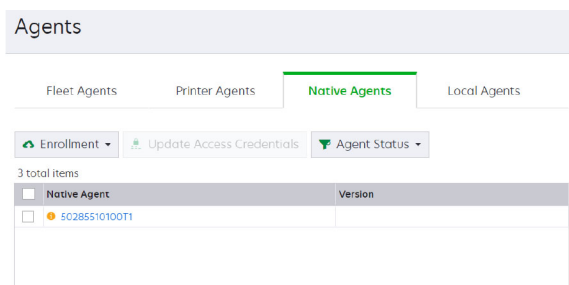
- Select **Manually input serial number**, type the printer serial number, and then press **Enter**.
- Select **Import printer serial number from file**, and then browse to the CSV or TXT file.



**Note:** To receive the enrollment code and the complete enrollment instructions using email, type your email address.

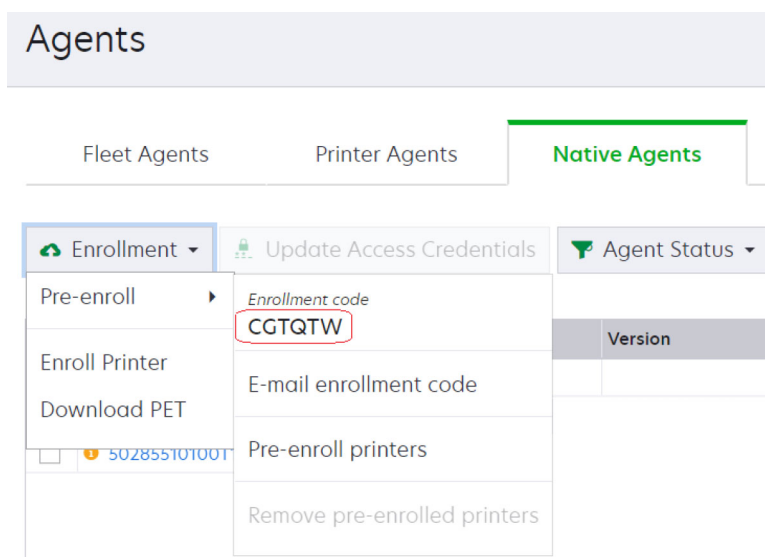


Once pre-enrolled, the printer serial number is listed on the Native Agent page with a Printer pre-enrolled icon.



### Obtaining the enrollment code

- 1 Click **Agents > Native Agents > Enrollment > Pre-enroll**.






2 Copy the organization's enrollment code.

**Note:** You can also obtain the enrollment code by clicking the pre-enrolled serial number. The code can be found in the Printer Information section.


50285510100t1

 The printer associated with this agent is only pre-enrolled. You must complete enrollment at the printer using the enrollment code.

×

Status

Agent status

 Printer pre-enrolled

[Remove pre-enrolled printer](#)

- Status
- Identification
- Printer Information
- [Back to top](#)

Identification

Agent type

Native

Printer Information

Serial number50285510100t1

Pre-enrolled5/5/2022, 2:46:23 PM

Enrollment codeCGTQTW

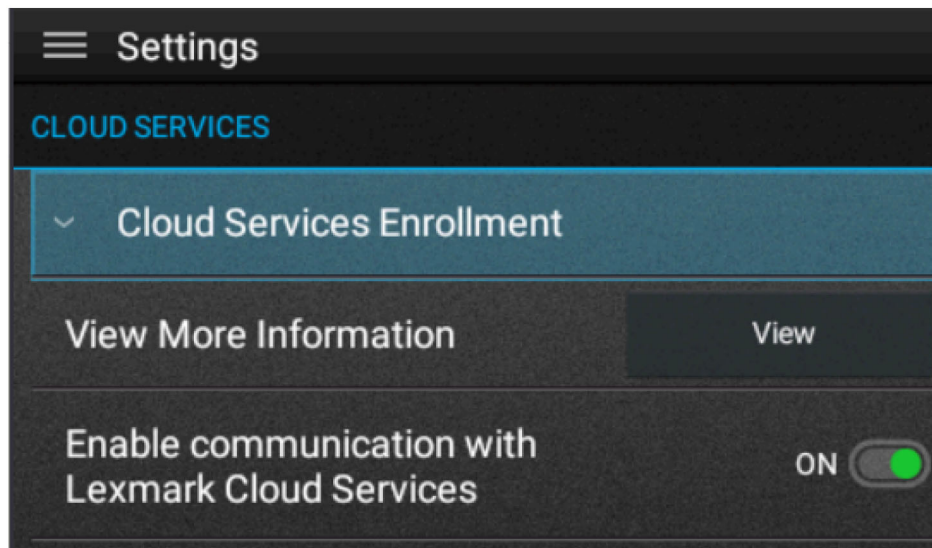
**Note:** If the Enrollment menu is not visible, or there are no printer serial numbers listed, then no printers have been pre-enrolled. For more information, see [“Entering printer serial numbers in the Cloud Fleet Management portal” on page 123](#).



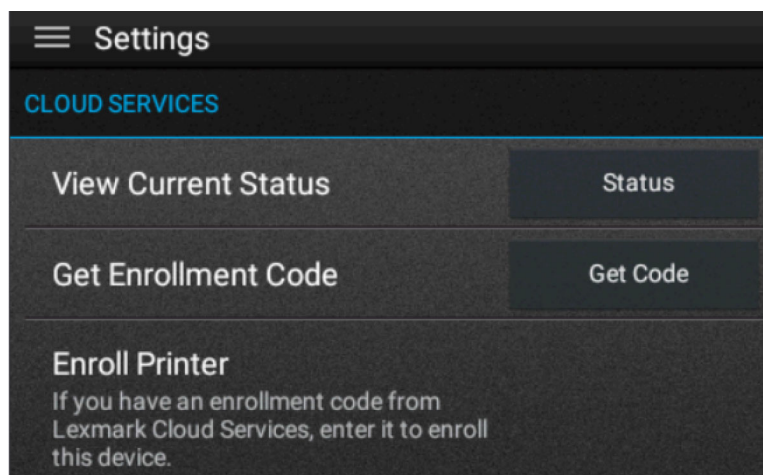
## Applying the enrollment code to the printer

- **Using the control panel**

- 1 From the printer home screen, touch **Settings** > **Cloud Services** > **Cloud Services Enrollment**



- 2 From the Enable communication with Lexmark Cloud Services menu, touch **On**.
- 3 Touch **Enroll Printer**, and then enter the enrollment code.



- 4 Touch **OK**

- **Using the Embedded Web Server**

- 1 From the Embedded Web Server, click **Settings** > **Cloud Services** > **Cloud Services Enrollment**
- 2 Select **Enable communication with Lexmark Cloud Services**, and then click **Save**.
- 3 Click **Refresh** until the Enrollment Code field is visible. This may take a few minutes.
- 4 In the Enrollment Code field, enter the enrollment code, and then click **Enroll Printer**.

**Notes:**

- The enrollment code is case-sensitive.
- The enrollment can be verified from the Cloud Fleet Management portal.



- It may take a few minutes for the printer enroll.

## Printer-based enrollment

Printer-based enrollment begins at the printer. You obtained an enrollment code from the printer, and enter it in the Fleet Management portal. This method is useful if you plan to only deploy a few printers or if you are unaware of the printer's serial number.

Printer-based enrollment involves:

- 1 Obtaining the printer's enrollment code.

**Note:** This is done from the printer control panel or using its Embedded Web Server (EWS).

- 2 Entering the printer's enrollment code in the Cloud Fleet Management portal.

**Note:** The printer-based enrollment method is only supported for current generation Lexmark IoT-capable printers. If enrollment using this method is unsuccessful, then enroll using the Printer Enrollment Tool.

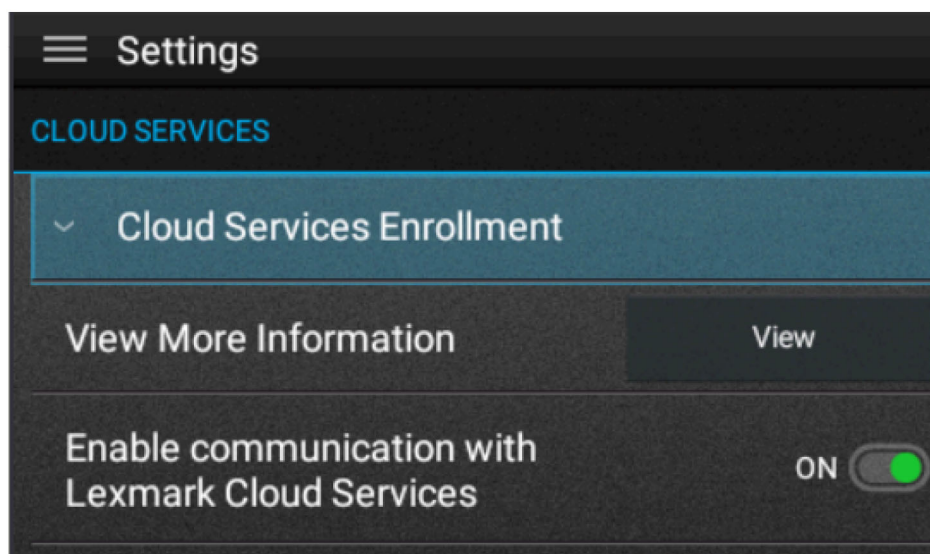
### Obtaining the enrollment code

There are two methods for obtaining the printer enrollment code.

- Using the control panel of the printer
- Using the Embedded Web Server

#### Obtaining enrollment code by using the control panel

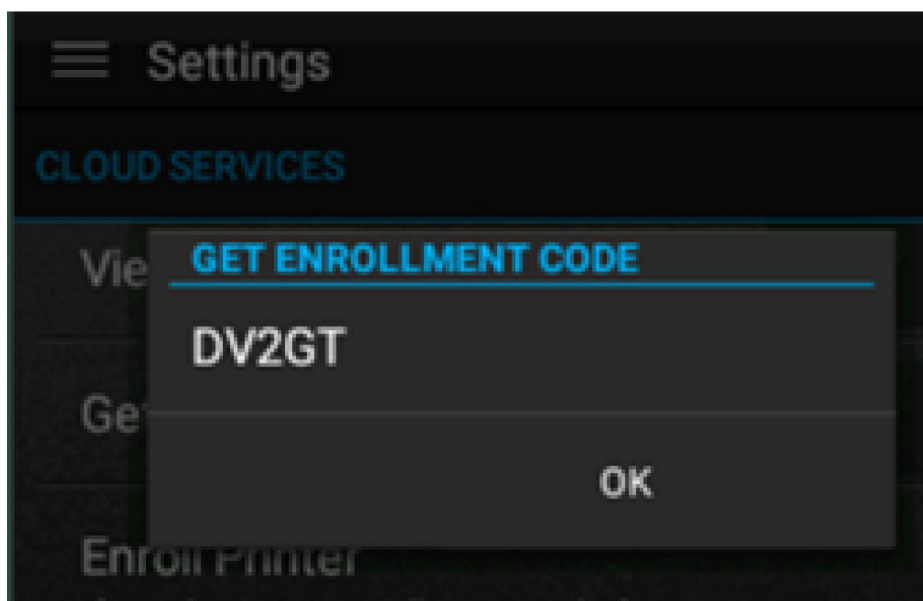
- 1 From the printer home screen, touch **Settings** > **Cloud Services** > **Cloud Services Enrollment**



- 2 From the Enable communication with Lexmark Cloud Services menu, touch **On**.



- 3 From the Get Enrollment Code menu, touch **Get Code**, copy the enrollment code, and then touch **OK**.



#### Obtaining the enrollment code by using the Embedded Web Server

- 1 From the Embedded Web Server, click **Settings** > **Cloud Services** > **Cloud Services Enrollment**.
- 2 Select **Enable communication with Lexmark Cloud Services**, and then click **Save**.
- 3 Click **Refresh** until the Get Enrollment Code is enabled. This may take a few minutes.
- 4 Click **Get Enrollment Code**, and then take note of the code.

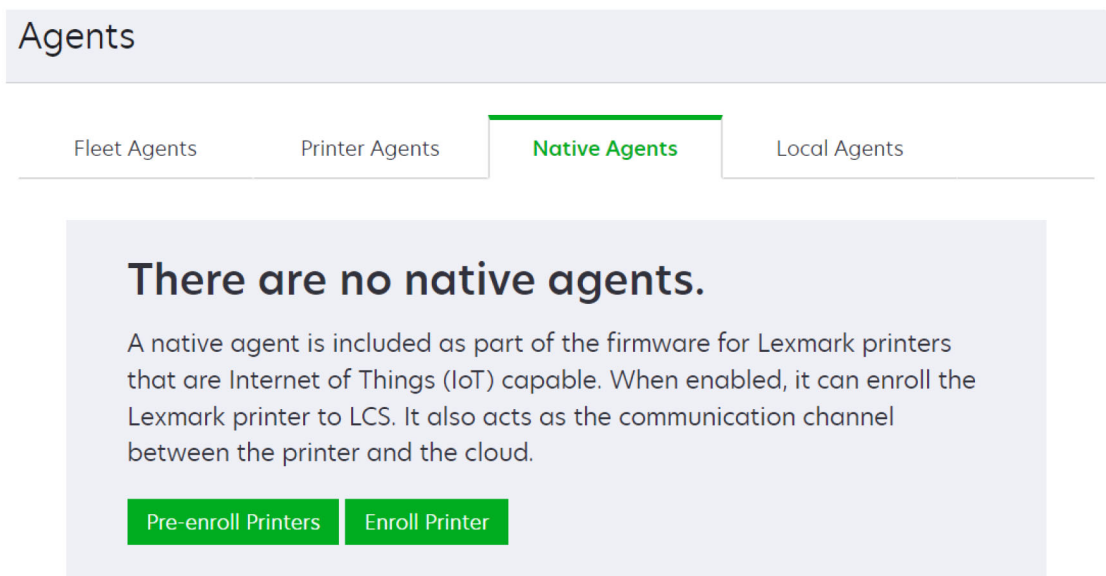
#### Entering printer serial numbers in the Cloud Fleet Management portal

- 1 From the Fleet Management web portal, do one of the following:



If no devices are enrolled:

- Click **Agents** > **Native Agents** > **Enroll Printer**.



If devices are already enrolled:

- Click **Agents** > **Native Agents** > **Enrollment** > **Enroll Printer**.

**2** Enter the enrollment code, and click **Enroll Printer**.

The screenshot shows a dialog box titled 'Enroll Printer Using Native Agent' with a close button (X) in the top right corner. Inside the dialog, there is a text input field with the placeholder text 'Enter the enrollment code received from the printer'. Below the input field, there is a small note: 'Obtain an enrollment code from either the printer's panel or Embedded Web Server page. See the [Fleet Management documentation](#) for more details.' Below this note, there is another note: 'NOTE: To enroll multiple printers simultaneously with native agents, use the [Printer Enrollment Tool](#).' At the bottom right of the dialog, there are two buttons: 'Cancel' and 'Enroll Printer'.

**Note:** The enrollment code is case-sensitive.

**Note:** In case of invalid code, you will get an error message.





## Creating a Fleet Agent

- 1 From the Fleet Management portal, click **Agents > Fleet Agents > Create Fleet Agent**.

Lexmark
Fleet Management

Printers
Agents
Configurations
Tasks
Notifications

Select Organization: Caret Office Sup... > Agents
[What are the different types of agents?](#)

## Agents

Fleet Agents

Printer Agents

Native Agents

Local Agents

+ Create Fleet Agent

↻ Update

🔍 Agent Status

🔍 Agent Update

🔍 Library Update

Search fleet agents

×

🔍

2 total items

	Fleet Agent	Activation Status	Enrolled Printers	Agent Version	Agent Update	Library Version	Library Update
<input type="checkbox"/>	Fleet Agent 1	Activated	0	1.3.10		1.2.72	
<input type="checkbox"/>	Fleet Agent - Site 4	Activation required	0				



**2** In the Create Fleet Agent form, configure the following:

Lexmark

Fleet Management

?

Printers

Agents

Configurations ▾

Tasks ▾

Notifications ▾

Select Organization: T... > Agents > Create Fleet Agent

Create Fleet Agent

General

Fleet agent name (required)

Description

Discovery Criteria and Settings

A fleet agent can use default settings or be configured with custom discovery criteria and agent settings.

Discovery Criteria

SNMP Profile

Scheduled Tasks

Other Settings

☒ Transfer management of discovered printers that are already enrolled through another agent.

When selected, discovered printers that are already enrolled and managed by another agent will be transferred to this agent.

Search Type

Search Local Network ▾

Search for printers on the same subnet as your computer.

Select SNMP Profile

Default ▾

Select the appropriate SNMP profile for this address.

Create Agent

Cancel



- **General**—Type a name and description for the Fleet Agent.
- **Discovery Criteria and Settings:**
  - **Discovery criteria:**
    - **Transfer management of discovered printers that are already through another agent**—Transfer all discovered printers that are already enrolled under another agent to this Fleet Agent. If not selected, then discovered printers that are already enrolled under another agent will remain enrolled under their current agent.

**Note:** Prevent overlapping Discovery Criteria between Fleet Agents. Overlapping criteria cause printers to switch between Fleet Agents.
  - **Search Type**—Select the type of discovery to be done.

## Discovery Criteria and Settings

*A fleet agent can use default settings or be configured with custom discovery criteria and agent settings.*

Discovery Criteria	SNMP Profile	Scheduled Tasks	Other Settings
<input checked="" type="checkbox"/> Transfer management of discovered printers that are already enrolled through another agent. <i>When selected, discovered printers that are already enrolled and managed by another agent will be transferred to this agent.</i>			
Search Type			
Search Local Network			
Search Local Network			
Advanced Search			



- **Search Local Network**—Search the local network subnet for printers. If the printers to be discovered have SNMP configured, then a matching SNMP profile must be added to the Fleet Agent configuration.

**Note:** The Fleet Agent discovers only printers that match its SNMP profile.

- **Advanced Search**—Search or exclude printers by specific IP address, subnet, range, and fully qualified domain name (FQDN). If the printers to be discovered have SNMP configured, then a matching SNMP profile must be added to the Fleet Agent configuration.
  - You can click **Add Discovery Criteria to Include** to enter the search criteria and select an SNMP profile. Repeat the process for each search criteria. After adding the search criteria, click **Add Discovery Criteria**.

**Add Discovery Criteria to Include** [X]

Enter address to include

IP address, subnet, range or host name

*Valid formats: 10.20.15.27, 10.20.15.\*, 10.20.\*\*, 10.20.15.3-10.20.15.34, myprinter.domain.com*

Select SNMP Profile

Default [v]

**Add**

*Select the appropriate SNMP profile for this address.*

Enter at least one "Include" address.

**Cancel** **Add Discovery Criteria**

**Notes:**

- The Fleet Agent discovers only printers that match its SNMP profile.
- If printers in the search criteria have different SNMP configurations, then the search criteria can be entered multiple times, each with a different SNMP profile.
- A printer can be managed by only one agent. Care must be taken when defining the Printer Discovery settings when using Native Agent, a Printer Agent, and a Fleet Agent, or multiple Fleet Agents within the same organization. If overlapping Printer Discovery criteria exist, then printers may not be managed by the intended agent. The printer data may roll up under the wrong agent and may appear to unenroll and re-enroll continually.
- You can click **Import** or **Export** to import or export functions to use predefined search criteria or saved search criteria for later use.
- **SNMP Profile**—Can be created to match the SNMP configuration of printers discoverable by the Fleet Agent. You can click **Create** to create profiles. Profiles can be created based on SNMP v1, v2c,



or v3. The SNMP profile created and used by a Fleet Agent must match the SNMP configuration of the printers that the Fleet Agent manages.

## Discovery Criteria and Settings

*A fleet agent can use default settings or be configured with custom discovery criteria and agent settings.*

Discovery Criteria

SNMP Profile

Scheduled Tasks

Other Settings

+ Create

*NOTE: The default profile can be edited but not deleted.*

Profile Name	Version	Discovery Timeout (secon...	Retries (number)
Default	V1	15	1
Site 1	V3	15	3

Create SNMP Profile

Profile name

SNMP Profile 1

SNMP version

Version 1

Community name

Discovery timeout (seconds)

-

15

+

Amount of time to wait for a device to respond. Range: 1 - 60 seconds.

Number of retries

-

1

+

The number of attempts to communicate with a device. Range: 0 - 20 retries.

Cancel

Create SNMP Profile

**Notes:**

- The Fleet Agent discovers printers that match its SNMP profile.
- An SNMP profile using SNMP v3 is not required by the Fleet Agent. However, SNMP v3 must be enabled on eSF version 5 or later printers released since 2016. An SNMP v3 profile does not need to be configured on these printers, but SNMP v3 must be enabled. If you do not enable SNMP v3, then the Fleet Agent cannot update firmware, applications, and configurations.



- **Scheduled Tasks**—Set up the Fleet Agent to periodically rediscover printers and to refresh printer information. Setting a discovery interval lets you automatically add or remove printers as they are added, exchanged, or removed.

## Discovery Criteria and Settings

*A fleet agent can use default settings or be configured with custom discovery criteria and agent settings.*

Discovery Criteria	SNMP Profile	<b>Scheduled Tasks</b>	Other Settings
--------------------	--------------	------------------------	----------------

*Tasks will be automatically performed on the displayed schedule. Schedules can be edited.*

### Printer Discovery Task

*Set the interval to run a discovery task and enroll newly found printers.*

Task interval

Day of the week

Time of day



*Task will be run as close to the selected time as system allows.*

### Refresh Printer Information Task

*Set the interval to refresh printer information, including statuses, alerts and meters. For printers managed by a fleet agent, the Last Data Refresh column on the Printers page updates only if printer information has changed.*

Task interval

- **Printer Discovery Task**—Set the Fleet Agent to rediscover and enroll printers on a regular basis or only when manually directed from the Cloud Fleet Management portal.
  - **None (Run tasks manually only)**—Run manually.
  - **Once a day**—Set a specific time.
  - **Once a week**—Set a specific time on a selected day of the week.
  - **Once a month**—Set a specific time on the last day of the month or on a selected day of the month.
- **Refresh Printer Information Task**—Set the Fleet Agent to refresh printer information at certain intervals.
  - **Every 15 minutes**
  - **Every 30 minutes**
  - **Every hour**



- **Every 2 hours**
- **Every 6 hours**
- **Every 12 hours**

**Notes:**

- The default setting is 1 hour. A shorter interval provides a more current printer status but puts more traffic on the local network. A longer interval reduces the local network traffic, but provides a slower printer status update.
- The Fleet Agent reports printer information to the Fleet Management services if a page count change occurs. It also reports or when a printer or supplies alert has been detected.

**– Other Settings**

- **Log level**—Set the level of detail provided when a log is run for the Fleet Agent. Always set the log level to **Detailed**.

Message Type	Summary	Detailed
Error	✓	✓
Warn	✓	✓
Informational	✓	✓
Debug	X	✓

- **Network utilization delay (milliseconds)**—Limit the network traffic caused by the Fleet Agent printer discovery process. A higher number reduces the impact on network performance but makes the discovery process longer. The default delay setting is 250 milliseconds. The delay must not be set to zero.

**3 Click **Create Agent**.**

## Installing a Fleet Agent

### Fleet Agent installation package

After creating a Fleet Agent, install it on a server or host computer within the customer's network. The Fleet Agent installation package can be downloaded or provided through a link emailed from the Cloud Fleet Management portal.



Lexmark Fleet Management

Printers Agents Configurations Tasks

Select Organization: Caret ... > Agents > Fleet Agent - Site 4

## Fleet Agent - Site 4

**ACTIVATION REQUIRED:** Download or E-mail the installation package and install on the same network as the printers to be enrolled. An activation code will be generated and is valid for 72 hours. If it expires before activating the agent, return to this page to generate a new code.

Edit Agent Discover & Enroll Printers Installation Package More

Download  
E-mail

### Status

Agent status **Activation required**

Activation code [Generate activation code](#)

Status  
Identification  
Agent Settings  
[Back to top](#)

**Note:** The size of the installation package is about 140MB.

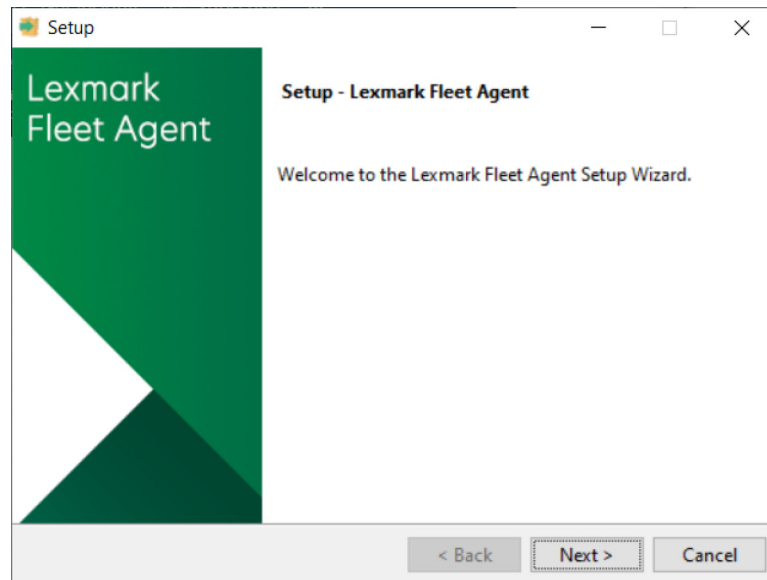
### Fleet Agent activation code

You need an activation code during setup of the Fleet Agent. You can obtain the code by clicking the **Generate activation code** link. The code registers the installed Fleet Agent with a Fleet Agent definition. You can associate a Fleet Agent definition with only a single Fleet Agent installation. If the code is not used within 72 hours, then you must generate a new code.

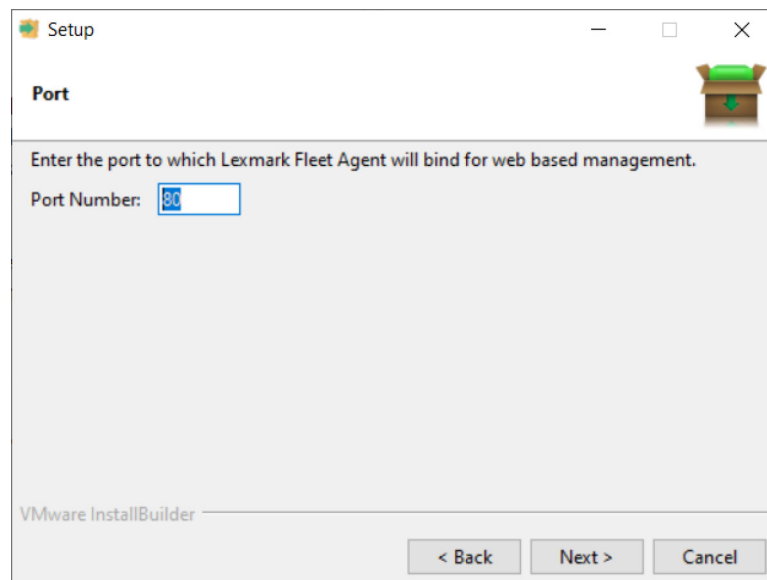


## Installing and activating a Fleet Agent

- 1 From a server or host computer, run the Fleet Agent installation package.



- 2 Accept the End-User License Agreement (EULA).
- 3 Enter the port number.



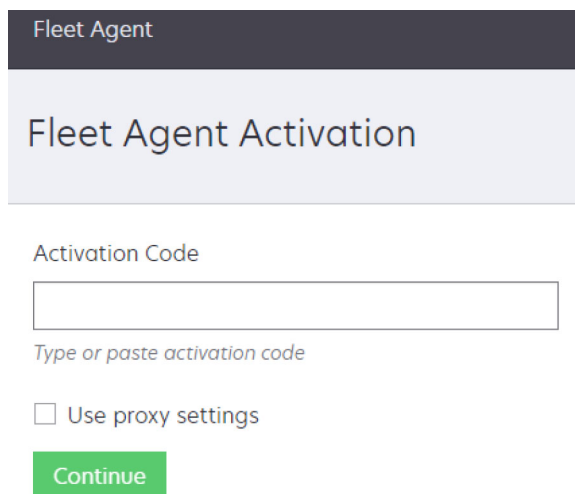
### Notes:

- The default port number is 80.
- If port 80 is not available, then enter any available port, such as 8080 or 8088.

- 4 Click **Finish** to close the installation window, and launch the Fleet Agent on a web browser.



**5** Enter the Fleet Agent's Activation Code, and then click **Continue**.



Fleet Agent

## Fleet Agent Activation

Activation Code

*Type or paste activation code*

☐ Use proxy settings



Continue

**Notes:**

- A proxy can be set.
- You can apply a password to restrict access to the Fleet Agent.



- You can also set the initial printer discovery and enrollment to be performed automatically after the Fleet Agent is

 Lexmark Fleet Agent 

Fleet Agent Activation

## Identification

Agent ID	Fleet Agent 1
Organization	Caret Office Supply

## Agent Password (Optional)

*Set password to provide secure access to the fleet agent*

Password

*Passwords must be at least eight characters long, and include at least one uppercase letter, lowercase letter, and digit.*

Confirm Password

☐ Discover and enroll printers immediately after activating this agent

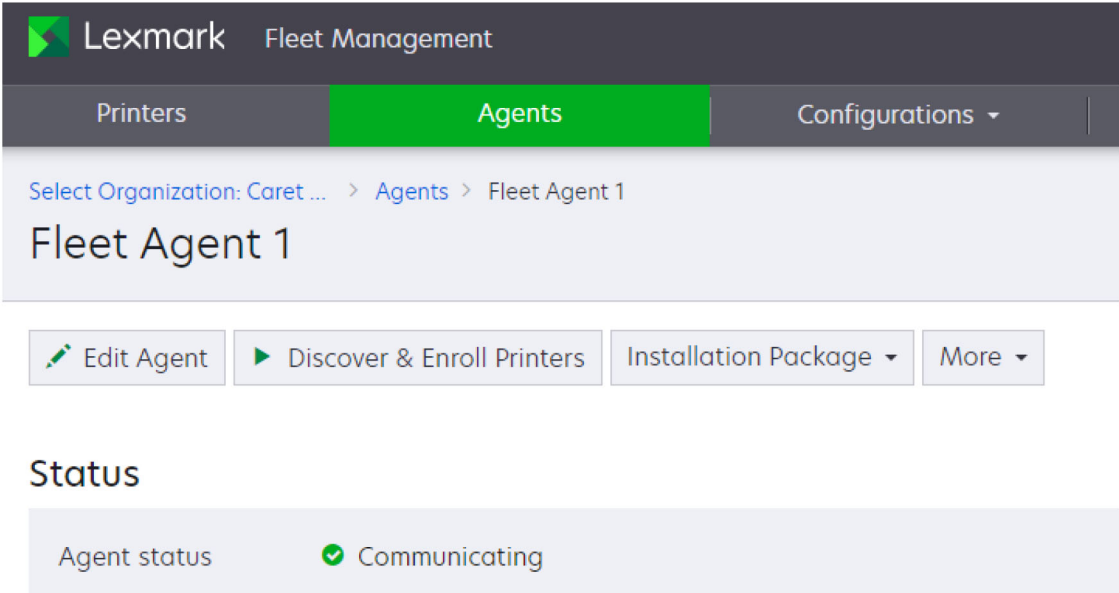
Cancel

Activate Agent

activated.



- After activation, the Fleet Agent details page shows its status as Communicating





The screenshot displays the Lexmark Fleet Management web interface. At the top, a dark header bar contains the Lexmark logo and the text "Fleet Management". Below this is a navigation bar with three tabs: "Printers", "Agents" (which is highlighted in green), and "Configurations" with a dropdown arrow. Under the navigation bar, a breadcrumb trail reads "Select Organization: Caret ..." followed by "> Agents" and "> Fleet Agent 1". The main heading "Fleet Agent 1" is prominently displayed. Below the heading is a row of four buttons: "Edit Agent" (with a pencil icon), "Discover & Enroll Printers" (with a play icon), "Installation Package" (with a dropdown arrow), and "More" (with a dropdown arrow). A section titled "Status" follows, containing a single row with the text "Agent status" and a green checkmark icon followed by the word "Communicating".

Lexmark Fleet Management


Printers Agents Configurations ▾

Select Organization: Caret ... > Agents > Fleet Agent 1

## Fleet Agent 1

 Edit Agent  Discover & Enroll Printers Installation Package ▾ More ▾

### Status

Agent status  Communicating



### Using a proxy with the Fleet Agent

Sometimes you must change the proxy configuration after the Fleet Agent is installed. To change the proxy configuration, do the following:

- 1 Open a web browser, and then type **https://localhost:<portnumber>**.

**Note:** <portnumber> is the port used when the Fleet Agent was installed. The default port number is 80.

- 2 Click  on the upper-right corner of the Fleet Agent home screen to access the Proxy Configuration settings.

### Proxy Configuration

☒ Use proxy settings

*Enter proxy settings as required by your network.*

Proxy Host

Proxy Port

☒ Proxy requires username and password

Username

Password

Cancel

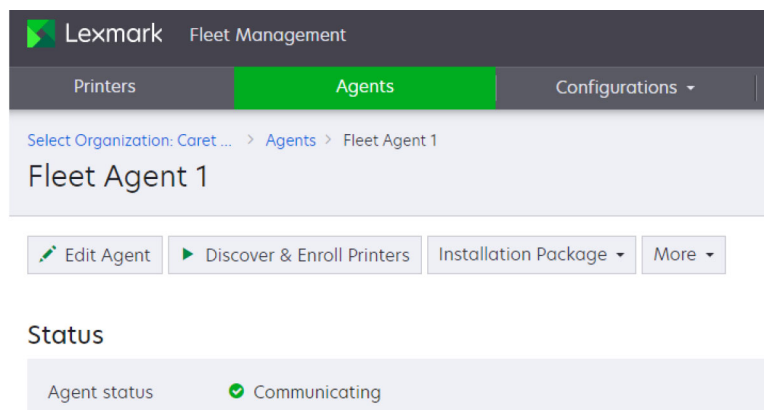
Verify Proxy Settings

- 3 Click **Verify Proxy Settings**.



## Discovering and enrolling printers

- To manually initiate the printer discovery and enrollment process, click **Discover & Enroll Printers** on the Fleet Agent details page in the Fleet Management portal.
- A Discover printers task is created on the Fleet Agent task queue. Discovered and enrolled printers appear on the Printers page in the Fleet Management portal.
- The initial discovery and enrollment task can be done manually or as part of the Fleet Agent activation process. Afterward, the task is automatically repeated on the schedule that you set when creating the Fleet Agent. For more information on installing and activating a Fleet Agent, see [“Installing a Fleet Agent” on page 131](#).



### Printers not being discovered

You can use a MIB walk to determine why a printer is not being discovered. You can obtain a MIB walk log from the Cloud Fleet Management portal, and then contact Customer Support Center to review the log. To initiate a MIB walk, do the following:

- 1 From the Fleet Management web portal, click **Agents > Fleet Agents**.
- 2 Click the Fleet Agent name.
- 3 In the Log section, type the IP address of the printer, and then click **Request**.

Request

MIB Walk

*Request to download a printer's MIB information*

Printer address

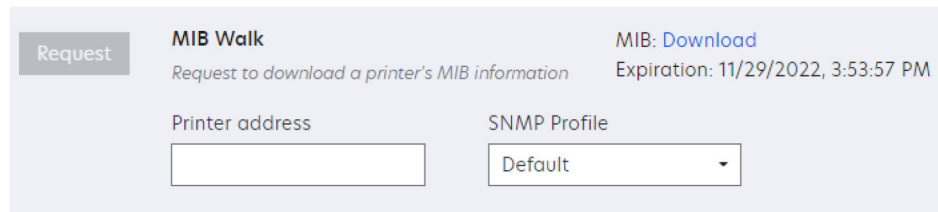
10.148.15.126

SNMP Profile

Default



#### 4 Click **Download**.



The screenshot shows a light blue rectangular interface. On the left is a grey button labeled 'Request'. To its right, the text 'MIB Walk' is displayed in bold, followed by the description 'Request to download a printer's MIB information' in a smaller font. Further right, 'MIB: Download' is shown in blue, and 'Expiration: 11/29/2022, 3:53:57 PM' is shown below it. At the bottom, there are two input fields: 'Printer address' with an empty text box, and 'SNMP Profile' with a dropdown menu currently showing 'Default'.

## Managing an installed Fleet Agent

After a Fleet Agent is installed, you may need to change it for the following reasons:

- Printer discovery parameters
- Task scheduling
- Version update for the Fleet Agent or the Printer Support Library
- Deactivated or deleted Fleet Agent

### Editing a Fleet Agent

- 1 From the Fleet Management web portal, click **Agents > Fleet Agents**.
- 2 Click the Fleet Agent name.
- 3 Click **Edit Agent**.
- 4 Click **Save Changes**.

#### Notes:

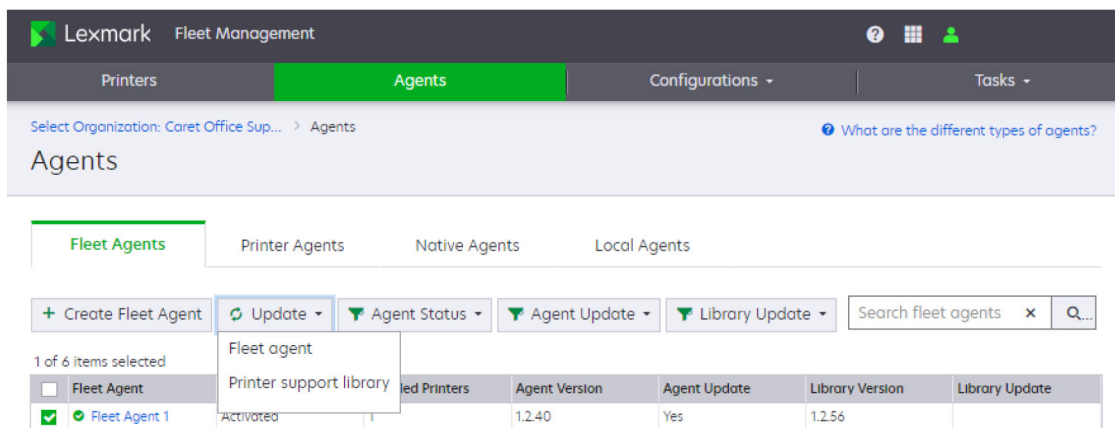
- Changes made to the definition of an existing Fleet Agent take effect immediately.
- If the SNMP profile of a Fleet Agent definition is changed or deleted, then all printers associated with that profile are unenrolled and no longer discoverable by this Fleet Agent.
- After a Fleet Agent is updated, you can initiate a Discover printer task in the Fleet Agent details page by clicking **Discover & Enroll Printers**. This task discovers and enrolls printers based on the updated Fleet Agent definition.



## Updating a Fleet Agent

Available updates to the Fleet Agent executable file or for Printer Support Library used by the Fleet Agent appear on the Fleet Agents page.

- 1 From the Fleet Management web portal, click **Agents > Fleet Agents**.
- 2 Select one or more Fleet Agents, and then click **Update > Fleet Agent**.



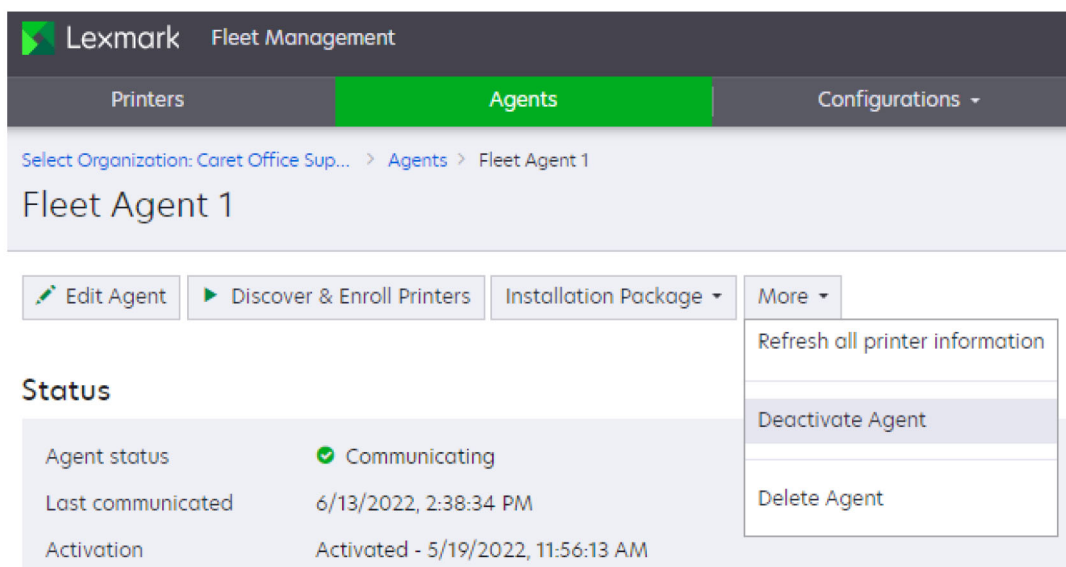
- 3 Click **Continue**.

## Deactivating a Fleet Agent

Deactivating a Fleet Agent stops it from collecting printer data. After it is deactivated, you can no longer manage printers associated with that Fleet Agent. Printers associated with the deactivated Fleet Agent are unenrolled and no longer appear on the Printers page. The Fleet Agent definition is not deleted. Device data associated with the deactivated Fleet Agent is also retained.

- 1 From the Fleet Management web portal, click **Agents > Fleet Agents**.
- 2 Click the Fleet Agent name.



**3 Click More > Deactivate Agent.**

Lexmark Fleet Management

Printers Agents Configurations ▾

Select Organization: Caret Office Sup... > Agents > Fleet Agent 1

## Fleet Agent 1

Edit Agent Discover & Enroll Printers Installation Package ▾ More ▾

Refresh all printer information

Deactivate Agent

Delete Agent

### Status

Agent status	✓ Communicating
Last communicated	6/13/2022, 2:38:34 PM
Activation	Activated - 5/19/2022, 11:56:13 AM

**4 Click Deactivate Agent.**

⚠ Deactivate Agent

Deactivating the fleet agent suspends its printer management capabilities and removes associated printers from the Printers page. Reactivate the agent and start a discovery to restore printers and the fleet agent's management capabilities.

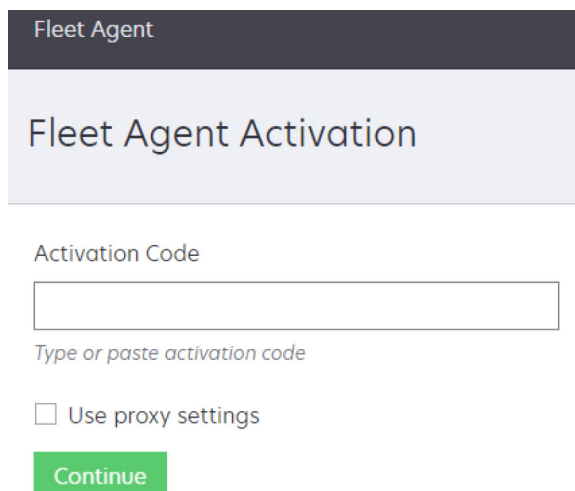
Do you want to deactivate "Fleet Agent 1"?

Cancel Deactivate Agent

**Restoring a deactivated Fleet Agent**

- 1 From the Fleet Management web portal, click **Agents > Fleet Agents**.
- 2 Click the Fleet Agent name.
- 3 In the Status section, click **Generate activate code**.
- 4 Copy the activation code.
- 5 Launch the Fleet Agent on a web browser, and then enter the activation code.



**6** Click **Continue** > **Activate Agent**.

Fleet Agent

## Fleet Agent Activation

Activation Code

Type or paste activation code

☐ Use proxy settings

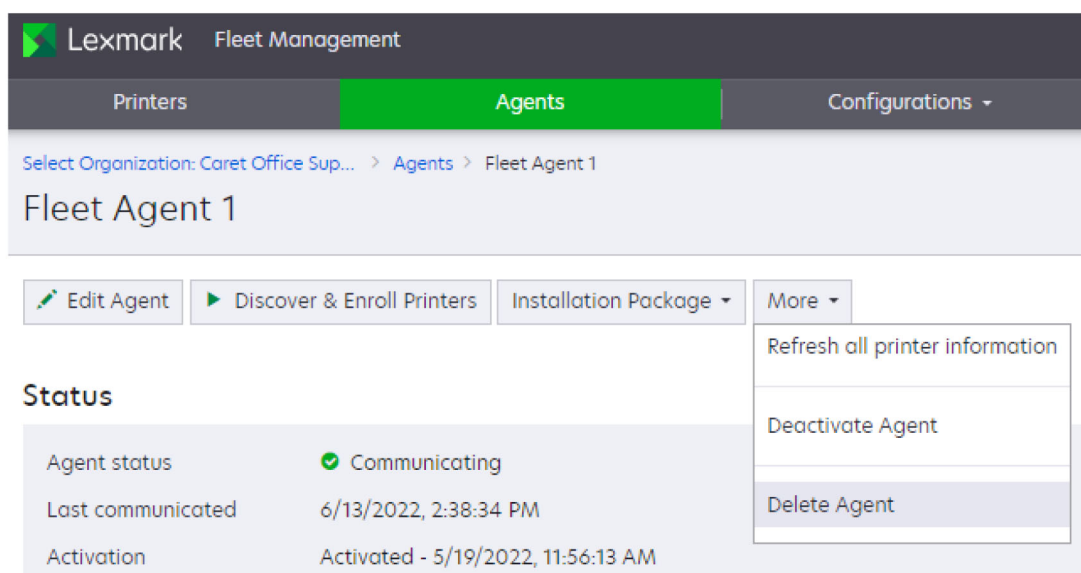
Continue

**Note:** Once the Fleet Agent has been reactivated, you must initiate the Discover & Enroll Printers task from the Cloud Fleet Management portal. This restores the data collection and printer management functions of the Fleet Agent.

**Deleting a Fleet Agent**

If a Fleet Agent installation is no longer required at a customer location, it must be deleted. Deleting a Fleet Agent removes the Fleet Agent definition from the Cloud Fleet Management portal. It also unenrolls any printers associated with the deleted Fleet Agent, and deletes any data associated with those printers. The Fleet Agent executable running in the customer's environment will not be uninstalled. You must uninstall the Fleet Agent executable manually.

- 1 From the Fleet Management web portal, click **Agents** > **Fleet Agents**.
- 2 Click the Fleet Agent name.
- 3 Click **More** > **Delete Agent**.



Lexmark Fleet Management

Printers Agents Configurations

Select Organization: Caret Office Sup... > Agents > Fleet Agent 1

## Fleet Agent 1

Edit Agent Discover & Enroll Printers Installation Package More

Refresh all printer information

Deactivate Agent

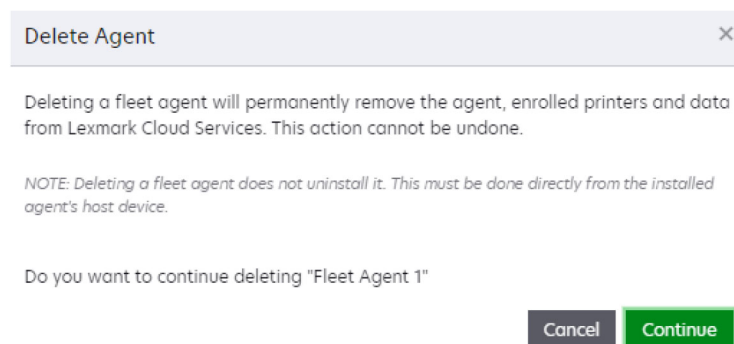
Delete Agent

### Status

Agent status	Communicating
Last communicated	6/13/2022, 2:38:34 PM
Activation	Activated - 5/19/2022, 11:56:13 AM



#### 4 Click **Continue**.



#### Notes:

- A deleted Fleet Agent cannot be restored.
- A new Fleet Agent definition must be created. Once created, a new activation code for the definition can be applied to the Fleet Agent executable, if it was not manually uninstalled.
- For more information, see [“Installing a Fleet Agent” on page 131](#).

## Using the Printer Agent

### Using a Printer Agent

#### Downloading the Printer Enrollment Tool

If you do not have a copy of the Printer Enrollment Tool (PET), download it from the Cloud Fleet Management portal.

- 1 From the Fleet Management web portal, do one of the following:
  - If some printers are already enrolled, then click **Printers > Enroll Printer using > Printer Agent > Download PET**.
  - If enrolling printers for the first time, then click **Use Printer Agent > Download PET**.
- 2 To accept the End User License Agreement (EULA) and download, click **Accept and Download**.
- 3 Extract the compressed folder.

#### Using the Printer Enrollment Tool

- 1 Run the Printer Enrollment Tool launcher.
- 2 Log in using the same email address and password used to connect to the Cloud Fleet Management portal.  
**Note:** If a newer version of the PET is available, then you will be prompted to download it.




### Update Available

A new version of this tool has been released.

[Download New Version](#)

3 If you manage multiple organizations, then select an organization, and then click **Next**.

4 Click  on the upper-right corner of the page, and then configure the following:

- **Discover and enroll native agent-capable printers using**—Determines whether Native Agent-capable printers are enrolled using the Native Agent or Printer Agent.
- **Time out for Printer Discovery**—Determines how long the PET waits for a response to each network broadcast. The value can be increased to improve printer discovery in slow networks.
- **Time out for Printer Enrollment**—Determines how long the PET waits for the Printer Agent to enroll the printer. The value can be increased to improve the printer enrollment process of older printers.
- **Logging detail levels**—Set the logging level to **Detailed**.
- **SNMP settings**—The SNMP settings in the PET must match those of the printers to be discovered.

**Note:** Printer discovery first occurs using mDNS, and then by Simple Network Management Protocol (SNMP). If SNMP discovery is preferred, then mDNS must be disabled on the printers.

Settings

General Settings

Discover and enroll native agent-capable printers using

Printer agent

*This setting only applies to new enrollments.*

Timeout for printer discovery

–

5

+

*How long the discovery process runs before timing out. Range: 1 to 600 seconds. Recommended starting value: 5 seconds.*

Timeout for printer enrollment

–

300

+

*How long the application will attempt to enroll a printer. Range: 60 to 499 seconds*

Logging detail [View current log](#)

☐ Summary

☒ Detailed

SNMP Settings

Version 1/2c

Community String

☒ 'public' ☐ Custom value

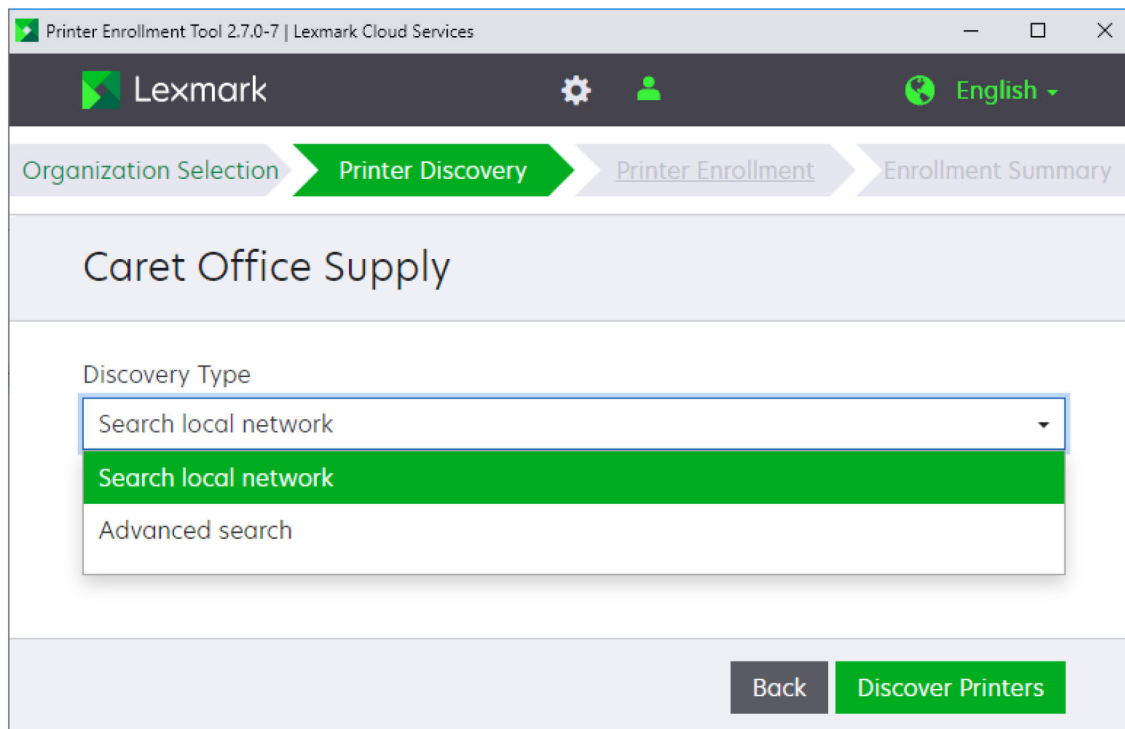
Cancel

Reset

Save Settings



5 From the Discovery Type menu, select any of the following:



- **Search local network**—Finds all printers on your local subnet. Use this method if you have several printers on the subnet but you do not know their network parameters. This method may take several minutes to locate complete.
- **Advanced search**—Lets you refine the search by specifying network parameters to find printers. Use this method if you have a small number of printers or if the network parameters of the printers are known. This method is usually faster than the Search local network method.

The following are the network parameters:

- Specific IP address
- Subnet
- Range
- Fully qualified domain name (FQDN)

**Notes:**

- To discover printers successfully, make sure that mDNS is enabled on the printer or that the SNMP configurations of the PET and the printers match.
- Printers in the Eligible to Enroll tab can be enrolled with the Native Agent if their agent type is set to Native.



Eligible to Enroll (2)					
Enrolled (0)					
Unsupported (0)					
<input type="checkbox"/>	Address	Model	Serial Number	Agent Type	Info
<input type="checkbox"/>	192.168.86.22	Lexmark CS725	50285510100T1	Native	
<input type="checkbox"/>	192.168.86.29	Lexmark MX410de	7015207200004	Printer	

**6** Select one or more printers to enroll, and then click **Enroll Printers**.

**Note:** The selected printers do not have to be of the same agent type. Each selected printer is enrolled using the indicated agent type.

**7** If necessary, log in to access the printer Embedded Web Server, and then click **Apply Credentials**. Otherwise, click **Skip This Step**.

**Notes:**

- When using a Native Agent or Printer Agent and a Fleet Agent, or multiple Fleet Agents within the same organization, care must be taken while defining the Printer Discovery settings. Only one agent can manage a printer. If overlapping Printer Discovery criteria exist, then printers may not be managed by the intended agent.
- The enrollment process may take several minutes to complete.
- After successful enrollment, wait several minutes for the printers to appear in the Cloud Fleet Management printers list.
- When a printer is enrolled using the Printer Agent, the PET installs an embedded (eSF) application, called the Printer Configuration Agent (PCA), on the printer. The PCA is the communications path between the printer and the cloud.

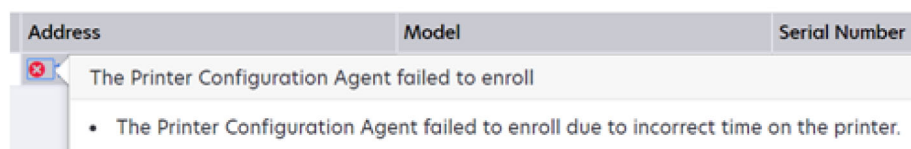
### Verifying the printer enrollment status

After running the PET to enroll printers, do the following to verify that an enrolled printer can communicate with Cloud Fleet Management. For more information on troubleshooting, see [“Fleet Management troubleshooting” on page 433](#).

- Check for printer enrollment failures in the PET.
  - For security-related failures, re-enroll printers using the correct security credentials.



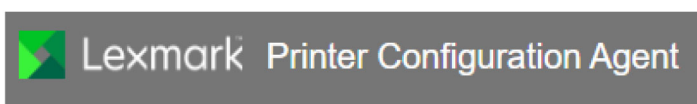
- If the printer date and time are not correct, then an error message appears.



- Make sure that the printer firmware is at least at the minimum recommended level.



- Verify that embedded applications appear on the printer Embedded Web Server (EWS) application page.
  - If no applications appear, then power cycle the printer.
  - If the issue persists, then re-enroll the printer.
- Verify that the PCA embedded application is enabled or running on the printer. If the PCA is disabled or stopped, then enable or start it.
- Verify that the PCA application status is enrolled.
  - Open the Printer Configuration Agent application from the printer EWS. If the PCA status is unenrolled, then re-enroll the printer.



**Status** Printer is currently unenrolled.

- Click **Test Agent Connection** to verify that the network and credential settings are correct.

### Verifying the connection status after placing the printer in service

Do the following to verify the Cloud Fleet Management connection status of a printer after it is placed in service or its network environment is changed. For more troubleshooting information, see [“Fleet Management troubleshooting” on page 433](#).

- Click **Test Agent Connection** to verify that the network and credential settings are correct.
- On e-Task v5 or later printers, do the following:
  - When editing contacts in the printer address book, do not modify or delete the **Lexmark\_PCA\_User** entry.
  - When importing or applying the **contactmanager.xml** file, edit the **contactmanager.xml** file to set **<addressbook clear="false">**.
- On the Cloud Fleet Management portal Printers page, do the following:
  - Verify that the printer is listed. If it is not, then re-enroll the printer.
  - Check the communication status of the printer.
    - If it is Communicating, then verify communications by going to the Printer Details page clicking **Refresh Printer Information**, and then checking the status in Task History.

<input type="checkbox"/>	IP Address	Serial Number	Communication Status
<input type="checkbox"/>	✓ 192.168.86.22	50285510100T1	Communicating
<input type="checkbox"/>	⚠ 10.195.7195	7559020008138	Not communicating
<input type="checkbox"/>	⚠ 10.194.29.57	756454101002B	Agent needs credentials
<input type="checkbox"/>	✗ 10.194.29.53	7421013000822	Agent not communicating



- If it is Not communicating, then do the following:
  - Verify that the printer is in service and has network connectivity. Open the Printer Configuration Agent application from the EWS, and then click **Test Agent Connection** to verify that the network and credential settings are correct.
  - Verify that the printer is in service in this organization. If the printer that you are enrolling was previously enrolled in another organization, then its Communication status will be Not communicating in the previous organization. To prevent this scenario, unenroll printers that are being moved to a new organization.
  - Re-enroll the printer, in any of the following cases:
    - The application status of the PCA is unenrolled.
    - The printer security login has changed since the printer was enrolled.
    - The **Lexmark\_PCA\_User** account has been modified in any e-Task v5 or later printers.
    - The printer DHCP/DNS configuration has changed or does not match the customer's environment.
    - The printer date and time settings are not correct.
  - If a firewall is being used, then verify that the appropriate Lexmark Cloud Services URLs have been added to the Allow List. For more information, see [“Deployment readiness checklist” on page 27](#).
- If “Agent needs credentials” appears, then the agent is communicating with Cloud Fleet Management, but administrator credentials have been applied to the printers after enrollment. A lock symbol appears in front of the IP addresses of these printers.

You can apply credentials from the Cloud Fleet Management portal. For more information, see [“Managing enrolled printers” on page 318](#). You can also apply credentials by opening the Printer Configuration Agent eSF application and then clicking **Update Credentials**.
- If “gent not communicating” appears, then the Fleet Agent associated with the printer is no longer communicating with Cloud Fleet Management. Verify that the Fleet Agent is still running and that it has a constant Internet connection.

If a firewall is being used, then verify that the appropriate Lexmark Cloud Services URLs have been added to the Allow List. For more information, see [“Deployment readiness checklist” on page 27](#).

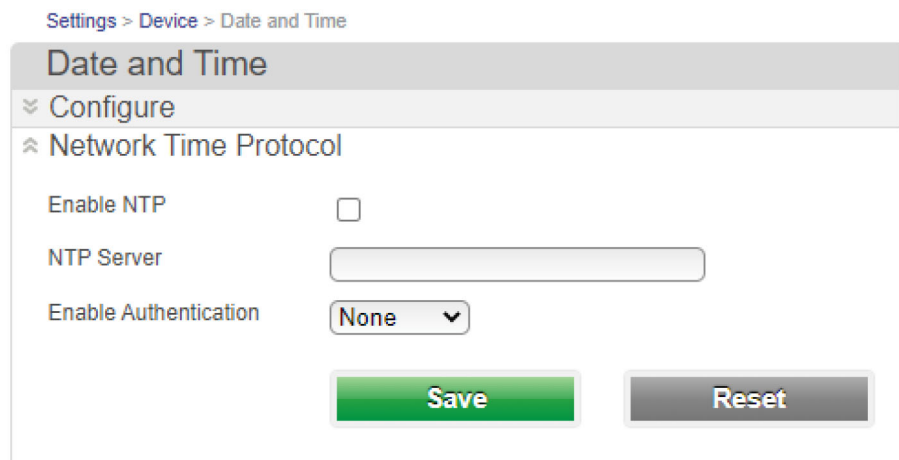
### Setting the correct date and time

The printer date and time must be set correctly to avoid failures in printer enrollment or in the processing of Cloud Fleet Management tasks. If it is not set correctly, then printer enrollment or the processing of Cloud Fleet Management tasks may fail. It is best to configure the printer's date and time by enabling the use of a Network Time Protocol (NTP) server. NTP servers are usually available from domain servers. Publicly available NTP servers can be found through an internet search.

If the printer's date and time are not correct when it is enrolled, then the printer's date and time will be set to the date and time of the Printer Enrollment Tool (PET) workstation if:

- The Enable NTP is not selected
- The Enable NTP is selected and the NTP Server address is blank



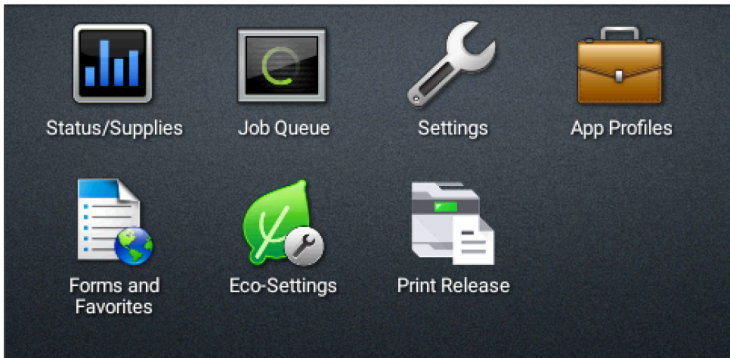


# Managing user accounts and printer permissions

To use and manage the Printer Agent, you must set the function access controls (FACs) and maintain an administrator account on the current-generation Lexmark printers. When referring to the Printer Agent on printers, the printers can be Secured or Open.

## e-Task version 5 or later printers

Printers with e-Task version 5 or later have a dark control panel background.



## Secured Printers

If access to the Embedded Web Server (EWS) is protected, then provide the credentials in the Printer Enrollment Tool during enrollment.

The following permissions must be enabled in either the Public or All Users permissions groups to avoid a failed enrollment.

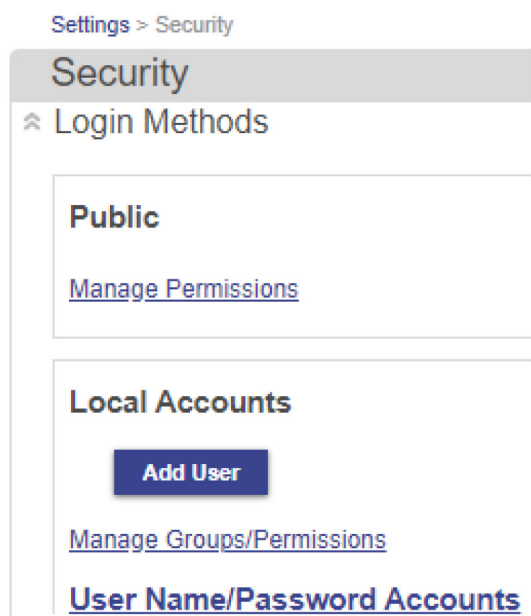
Access Control menu section	Access control to enable
Administration Menus	Security Menu
Device Management	Remote Management

## Open Printers



If access to the Embedded Web Server is not protected, then the following permissions must be enabled in the Public permissions group to avoid a failed enrollment.

Access Control menu section	Access control to enable
Administration Menus	Security Menu
Device Management	Remote Management





## Access Controls

☐ Function Access

☐ Administrative Menus
 

☒ Security Menu
 ☐ Network/Ports Menu
 ☐ Paper Menu
 ☐ Reports Menu
 ☐ Function Configuration Menus
 ☐ Supplies Menu
 ☐ Option Card Menu
 ☐ SE Menu
 ☐ Device Menu

☐ Device Management
 

☒ Remote Management
 ☐ Firmware Updates
 ☐ Apps Configuration
 ☐ Import / Export All Settings
 ☐ Out of Service Erase
 ☐ Embedded Web Server Access
 ☐ Cloud Services Enrollment

☐ Apps

### Lexmark\_PCA\_User account

When the Printer Configuration Agent (PCA) eSF application is installed on an e-Task version 5 or later printer, a **Lexmark\_PCA\_User** account and an administrator group are created. This account is used to process requests from Cloud Fleet Management.

Settings > Security > User Name/Password Accounts

### User Name/Password Accounts

☐

Name	User Name	E-mail	Groups
<input type="checkbox"/>	Lexmark_PCA_User		All Users, Admin

Display

< Page 1/1 >

**Note:** The **Lexmark\_PCA\_User** account and the administrator group must not be changed or modified. Changing them after enrollment prevents the printer from processing Cloud Fleet Management requests.

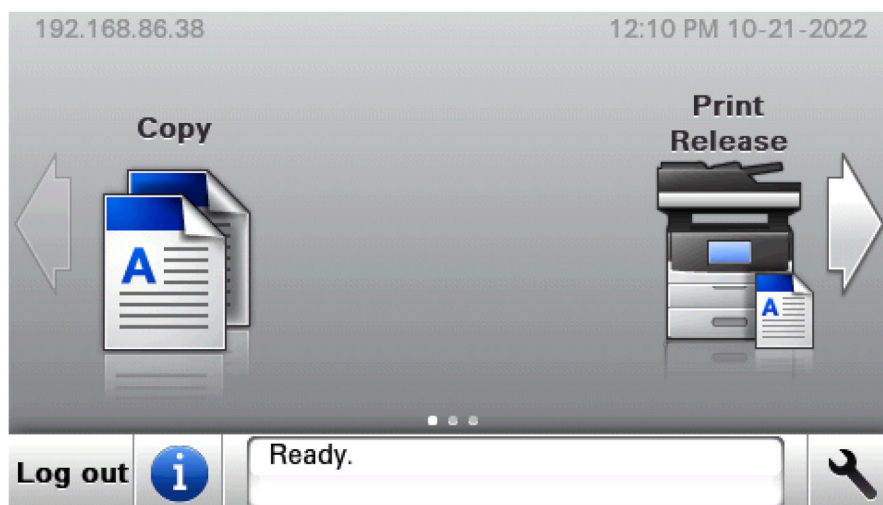
If any of the following actions occur after the printer is enrolled, then Cloud Fleet Management functionality may be lost. To restore Cloud Fleet Management functionality without reenrolling the printer, do the following resolution actions:



Action	Resolution
Lexmark_PCA_User account has been deleted.	<ol style="list-style-type: none"> <li>1 Recreate the <b>Lexmark_PCA_User</b> account.</li> <li>2 Open the Printer Configuration Agent application.</li> <li>3 Click <b>Update Credentials</b>, and then enter the credentials of an existing administrator account on the printer.</li> </ol>
Lexmark_PCA_User account name has been changed.	Click <b>Update Credentials</b> , and then enter the credentials of an existing administrator account on the printer.
Lexmark_PCA_User account password has been changed.	<ol style="list-style-type: none"> <li>1 Open the Printer Configuration Agent application.</li> <li>2 Click <b>Test Agent Connection</b>.</li> <li>3 Click <b>Update Credentials</b>, and then enter the credentials of an existing administrator account on the printer.</li> </ol>
Administrator group has been deleted.	<ol style="list-style-type: none"> <li>1 Recreate the administrator group with all permissions enabled.</li> <li>2 Assign the recreated administrator group with the <b>Lexmark_PCA_User</b> account.</li> </ol>
Administrator group permissions have been changed.	Re-enable all permissions under the administrator group.
Lexmark_PCA_User account removed from the administrator group.	Reassign the <b>Lexmark_PCA_User</b> to the administrator group.

### e-Task version 4 or earlier printers

Printers with e-Task version or earlier have a light gray control panel background.



### Secured Printers



If a Basic Security Setup template has been applied, then provide the credentials in the Printer Enrollment Tool during the device enrollment process. If this protection was applied or modified after the printer was initially enrolled, then the printer will not process requests from Cloud Fleet Management. For more information, see [“Managing enrolled printers” on page 318](#).

**Security Setup**

Basic Security Setup

Use the Basic Security Setup to limit access to the configuration menus via the operator panel and the embedded web server.  
*Applying this setup may overwrite a previous configuration.*

Authentication Type:    Range: 1 - 128 characters

Password:

Re-enter password:

The following access controls must be set to either the **Basic Security Setup** template or **No Security**.

e-Task version	Access Controls menu	Access control
e3 and e4	Administration menus	Service Engineer Menus Remotely
e3 and e4	Management	Remote Management
e3 and e4	Management	Firmware Updates
e4	Management	Configuration File Import / Export

### Open Printers

If access to the Embedded Web Server is not protected, then the following access controls must be set to **No Security** to avoid a failed enrollment.

e-Task version	Access Controls menu	Access control
e3 and e4	Administration menus	Service Engineer Menus Remotely
e3 and e4	Management	Remote Management
e3 and e4	Management	Firmware Updates
e4	Management	Configuration File Import / Export

## Using the Local Agent

### Using a Local Agent

The Local Agent is a Fleet Management agent for managing USB-connected printers that otherwise do not have a means of communicating directly with Cloud Fleet Management. For more information on the Fleet Management Agents, see [“Selecting an agent” on page 109](#).

**Note:** The Local Agent supports Windows 64-bit and Windows 32-bit operating systems only

To use a Local Agent, do the following:

- Download the Local Agent
- Obtain an activation code
- Install the Local Agent
- Activate the Local Agent



## Downloading the Local Agent

- 1 From the Fleet Management web portal, click **Agents > Local Agents > Download Local Agent** or **Download Agent**.
- 2 In the Download Local Agent window, select the installer package type.

Download Local Agent

Download a local agent installation package and then install it on a computer with USB-attached printers to enroll them.

Select install package type

Windows x64 installer

An activation code is required for using local agents.

☒ Generate activation code

*Generate an activation code that is valid for a set number of activations or 72 hours (whichever comes first).*

Number of activations supported for this code

-

10

+

*Range: 1 to 3000 activations*

Once generated, you can view the activation code by selecting the Activation Code button on the toolbar of the Local Agents tab.

Cancel

Download Agent

**Note:** You can select the Windows x64 or x86 installer package.

- 3 Select **Generate activation code**.

### Notes:

- The activation code is valid for 72 hours. If you are going to install the Local Agent before the activation code expires, then generate the code now.
- You can set the number of agents to be activated by the code.
- If the code expires before activating the agent, then generate a new activation code. From the Fleet Management portal, click **Agents > Local Agents > Activation Code > Generate activation code**.

- 4 Click **Download Agent**.

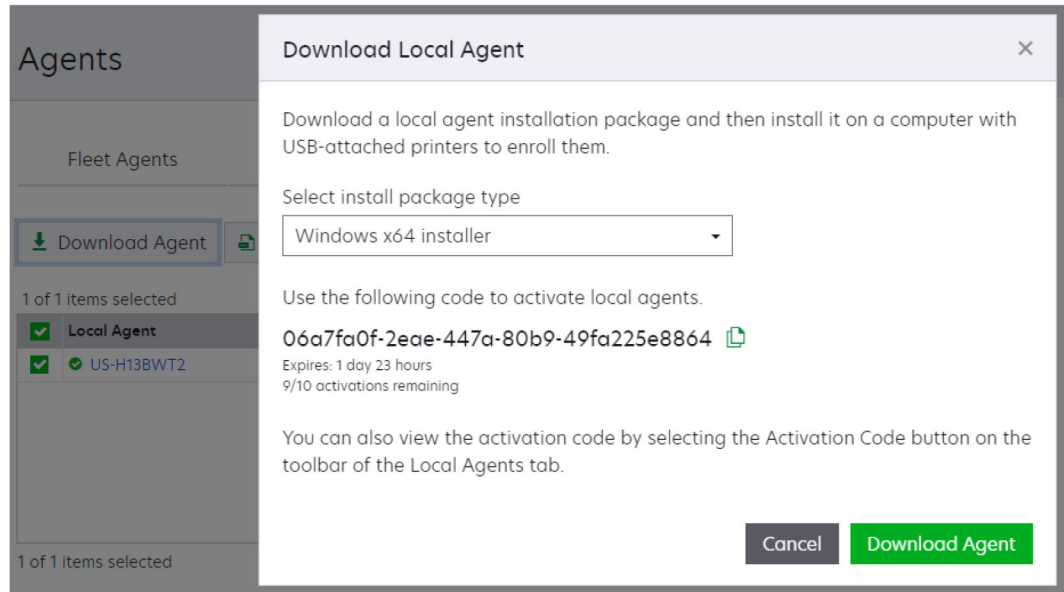
- 5 Accept and download the End-User License Agreement (EULA).

**Note:** The Local Agent installation files and activation code can be reused up to the number of activations specified when the activation code was generated. After the specified number of activations, the code is no longer valid, to prevent using it on more workstations than intended.

## Downloading the Local Agent again



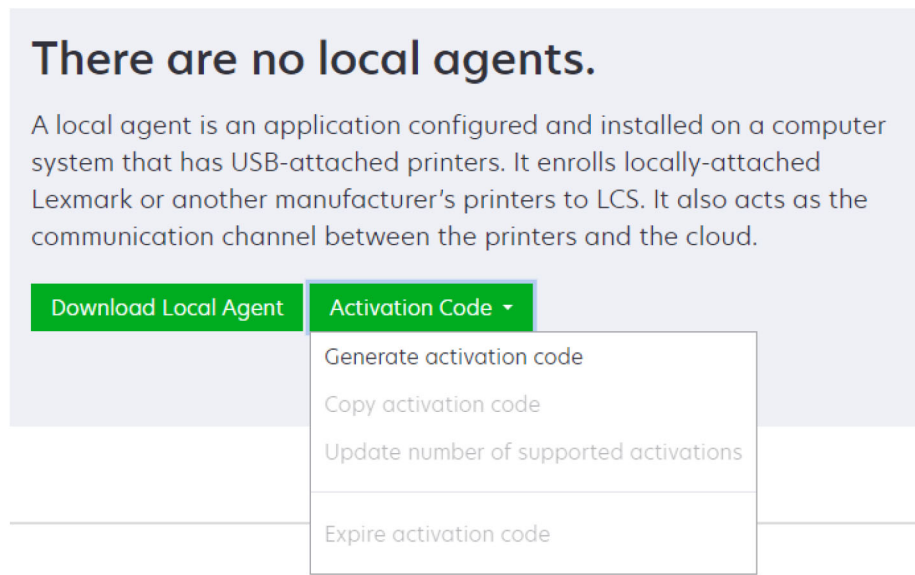
If the Local Agent is downloaded while a valid activation code exists, then the activation code appears when the Local Agent installation package is downloaded. The time remaining until the activation code expires and the number of activations remaining are shown. Click **Download Agent** to download the installation package.



### Obtaining the activation code

To use the Local Agent, you need an activation code. An activation code can be generated when the Local Agent installer is downloaded. For more information, see [“Downloading the Local Agent” on page 154](#). You can also obtain the activation code by doing the following:

- 1 From the Fleet Management web portal, click **Agents > Local Agents > Activation Code > Generate activation code**.





**2** In the Generate activation code window, set the number of agents to be activated by the code.

Generate activation code

Generate an activation code that is valid for a set number of activations or 72 hours (which ever comes first).

Number of activations supported for this code

-

10

+

Range: 1 to 3000 activations

Once generated, you can view the activation code by selecting the Activation Code button on the toolbar of the Local Agents tab.

Cancel

Generate Code

**3** Click **Generate Code**.

If a valid activation code already exists, then you can view it by clicking the **Activation Code** menu.

Fleet Agents

Printer Agents

Native Agents

Local Agents

There are no local agents.

A local agent is an application configured and installed on a compute system that has USB-attached printers. It enrolls locally-attached Lexmark or another manufacturer’s printers to LCS. It also acts as the communication channel between the printers and the cloud.

Download Local Agent

Activation Code ▾

Local agent activation code

06a7fa0f-2eae-447a-80b9-49fa225e8864

Expires: 2 days 23 hours

10/10 activations remaining

Generate activation code

Copy activation code

Update number of supported activations

Expire activation code

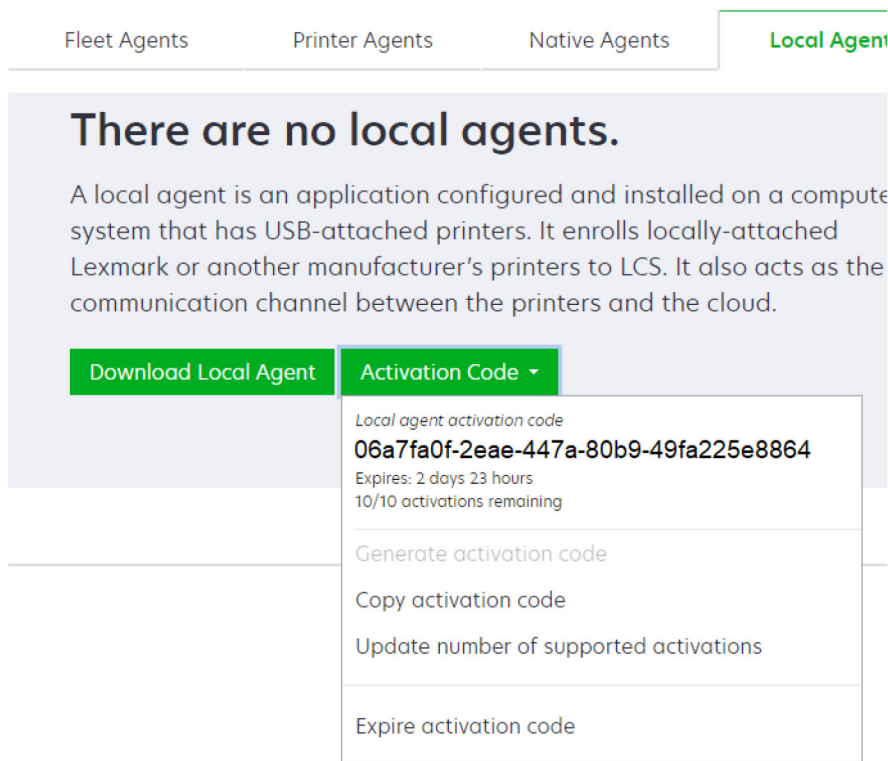
**4** Click **Copy activation code**

**Note:** The time and the number of remaining activations for which the code is valid are shown.



## Managing the activation code

If a valid activation code already exists, then you can view it by expanding the Activation Code menu.



### Updating the number of activations allowed

The Local Agent installation files and activation code can be reused up to the number of activations specified when the code was generated. After the specified number of activations, the code is no longer valid. To increase the number of allowed activations for a valid activation code, do the following:

- 1 From the Fleet Management web portal, click **Agents > Local Agents > Activation Code > Update the number of supported activations**.
- 2 In the Update the number of supported activations window, set the number.



### 3 Click **Update Activations**.

Update number of supported activations

×

Increase the number of activations for this code. This will not change the expiration time of the code.

Number of activations supported for this code

–

10

+

Range: 10 to 3000 activations

Cancel

Update Activations

**Note:** If an activation code has expired, then you must generate a new one. You cannot increase the activations allowed for an expired activation code. Activation codes are valid for up to 72 hours.

### Invalidating an activation code

If you no longer need a valid activation code, then you can force its expiration.

- 1 From the Fleet Management web portal, click **Agents > Local Agents > Activation Code > Expire activation code**.
- 2 In the Expire activation code window, click **Expire Code**.

⚠ Expire activation code

×

An expired activation code cannot be used to activate local agents. You will need to generate another code for new activations.

Do you want to expire this activation code?

Cancel

Expire Code

### Installing and activating a Local Agent

The Local Agent is designed to be installed on a Windows 64-bit or Windows 32-bit operating system. The downloaded Local Agent package must be extracted before it can be installed and then activated.

#### Installing the agent manually

To manually install the Local Agent, execute the Local Agent msi file. Follow the on-screen prompts. After the installation has completed, the Local Agent must be activated.

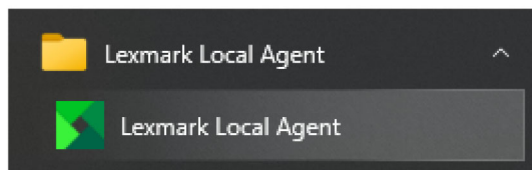
**Note:** The Local Agent msi file must be executed from the same folder as the configuration .ini files.

- 1 Run the Local Agent MSI file.
- 2 Follow the instructions on the computer screen.

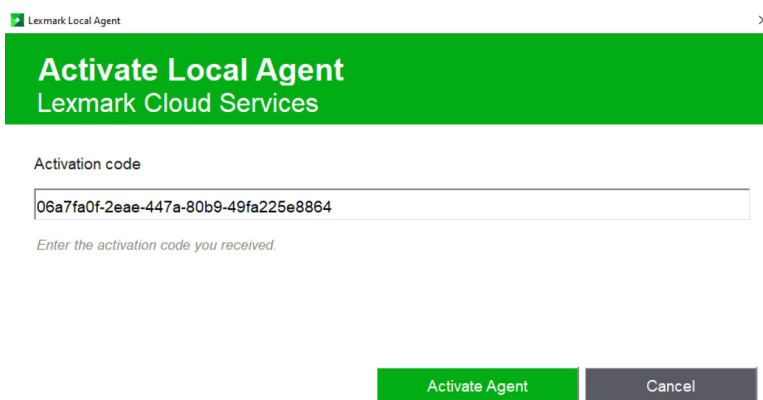


## Activating the agent manually

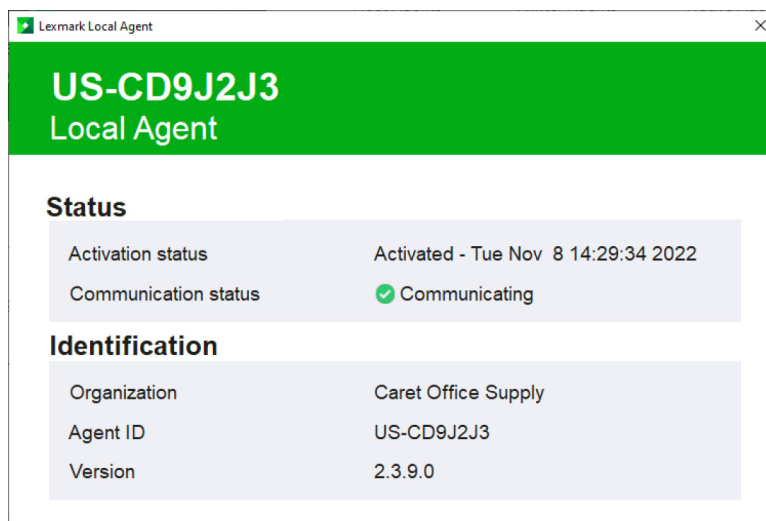
- 1 To manually activate the Local Agent, find and open the Lexmark Local Agent entry in the Windows menu.



- 2 Enter the activation code, and then click **Activate Agent**.

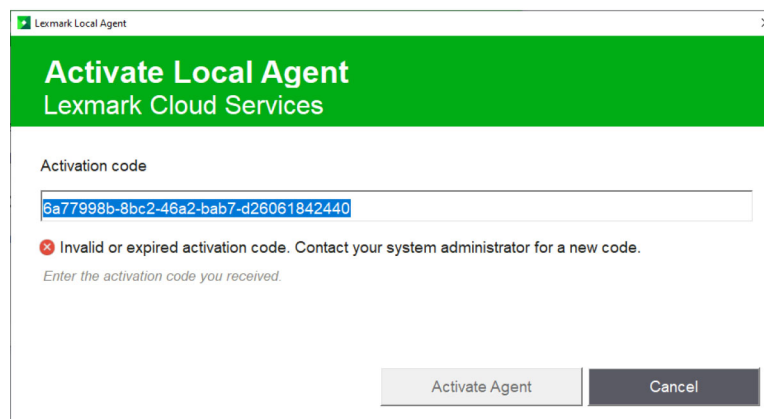


The following message appears





If the activation of the Local Agent fails, then the following message appears:



Make sure that the activation code is correct, or generate a new activation code.

### Activating the agent during installation

You can configure the Local Agent to automatically activate during installation by adding the activation code to the **LocalAgentConfig.ini** file.

- 1 Unzip the installation package.
- 2 Open the **LocalAgentConfig.ini** file in a text editor.
- 3 Under the **[IOT\_HUB]** block, add the **CS\_ACTIVATION\_CODE** parameter.
- 4 Enter the activation code generated from Lexmark Cloud Services as the value of the parameter.

#### Sample code:

```
[IOT_HUB]
CS_ACTIVATION_CODE=ab23ftcd-12dt-edte-123hdt dk-ttrbd
```

- 5 Save the **LocalAgentConfig.ini** file.
- 6 Run the Local Agent MSI file.

#### Notes:

- The Local Agent msi file must be executed from the same folder as the configuration ini files.
- If the activation code has expired, or was incorrectly copied into the **LocalAgentConfig.ini** file, then the Local Agent is installed, but is not activated. To verify the activation status of the Local Agent, click **Agents > Local Agents**.

### Managing an installed Local Agent

Managing Local Agents includes the following:

- Updating the Local Agent version. For more information, see [“Updating the Local Agent” on page 317](#).
- Editing the configuration of Local Agents or deactivating or deleting a Local Agent. For more information, see [“Editing the Local Agent” on page 316](#).



## Editing the configurations of a Local Agent

Local Agents have two configurable parameters:

- **Log level**—Must be set to **Detailed**. Detailed logs provide information on errors, warnings, and debugging.
- **Polling Interval**—How often the Local Agent reports printer data back to the Fleet Management services. The default value is 180 minutes.

## Editing the Local Agents

- 1 From the Fleet Management web portal, click **Agents > Local Agents**.
- 2 Do either of the following:
  - To edit a single Local Agent, click the name of the Local Agent, and then click **Edit Agent**.

- To edit multiple Local Agents at the same time, select multiple Local Agents, and then click **Edit Settings**.

**Note:** The Edit Local Agent window shows that Log level is set to **Detailed** and Polling Interval is set to **300**. These changes are automatically applied regardless of the current settings of the selected Local Agents.

## Deactivating a Local Agent

To stop the Local Agent from collecting and reporting printer information to the Fleet Management services, you can deactivate it. After reactivating a Local Agent, you can reactivate it only by applying a valid activation code.

- 1 From the Fleet Management web portal, click **Agents > Local Agents**.
- 2 Click the name of the Local Agent.



### 3 Click **Deactivate Agent**.



### 4 Click **Deactivate Agent**.

#### Deleting a Local Agent

If a Local Agent is no longer needed, then it can be deleted from the Fleet Management portal. All information related to the agent is deleted.

- 1 From the Fleet Management web portal, click **Agents > Local Agents**.
- 2 Click the name of the Local Agent.
- 3 To delete a Local Agent, click **Delete Agent**.



### 4 Click **Delete Agent**.

**Note:** Deleting a Local Agent in the Fleet Management portal does not uninstall the Local Agent application installed on the workstation.

## Deploy applications and configure your printers

### Deploying file using configurations

#### Using configurations

You can deploy configurations to update managed printers from within the Fleet Management portal. A configuration can contain one or more of the following categories:

- Printer firmware
- eSF applications
- Printer settings files



You can deploy configurations to one or more printers in a single action. Fleet Management services determine the correct version of firmware or eSF applications to deploy to each printer.

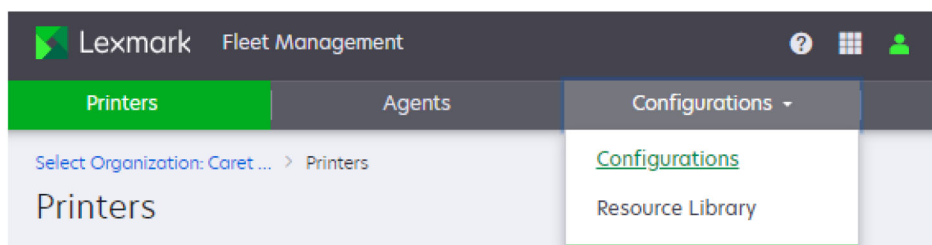
Deploy configuration in the following order:

- Firmware
- Applications, in the same order that they appear in the configuration.
- Settings files, in the same order that they appear in the configuration.

## Creating a configuration

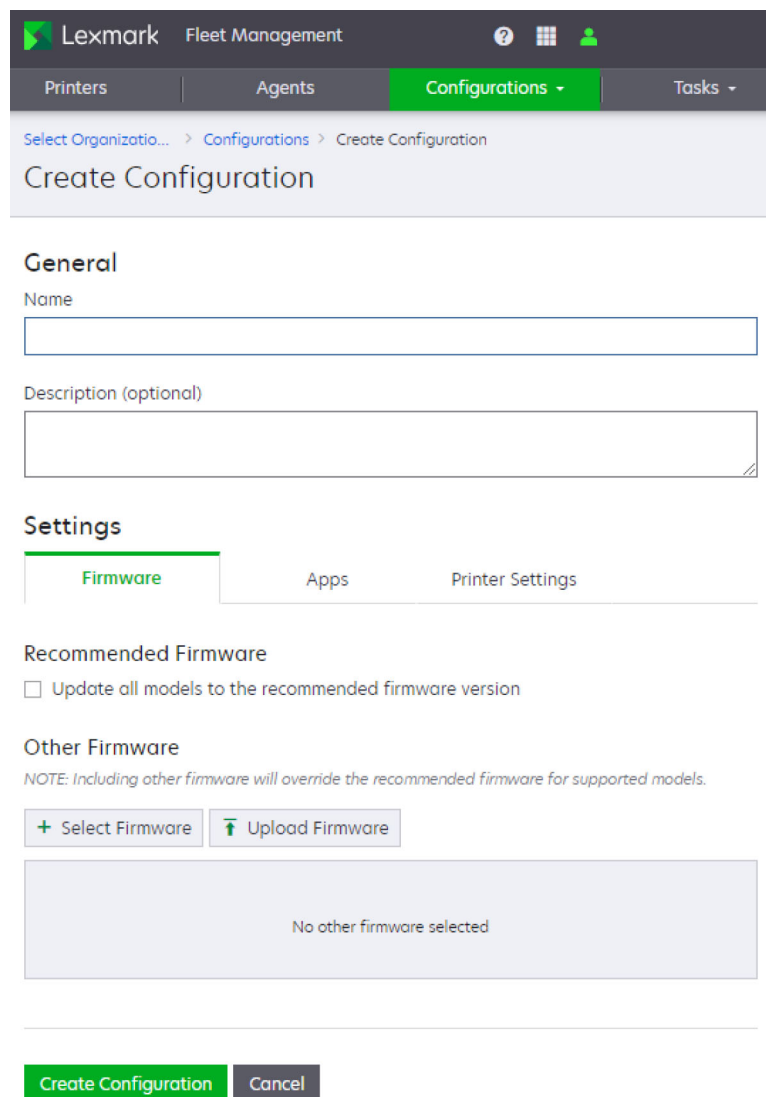
1 From the Fleet Management portal, do either of the following:

- Click **Printers > Configure > Create Configuration**.
- Click **Configurations > Configurations > Create**.





**2** In the Create Configuration page, type a unique name and description.



Lexmark Fleet Management

Printers Agents Configurations Tasks

Select Organization... > Configurations > Create Configuration

## Create Configuration

### General

Name

Description (optional)

### Settings

Firmware Apps Printer Settings

Recommended Firmware

☐ Update all models to the recommended firmware version

Other Firmware

NOTE: Including other firmware will override the recommended firmware for supported models.

+ Select Firmware Upload Firmware

No other firmware selected

Create Configuration Cancel

**3** Select one or more of the following:

- Firmware
  - The latest recommended Firmware versions
  - Special version previously uploaded as a resource in Cloud Fleet Management
- Apps
  - The latest version of the selected eSF applications
  - Special version previously uploaded as a resource in Cloud Fleet Management
- Printer Setting Files
  - UCF or setting bundle files previously uploaded as a resource in Cloud Fleet Management

**4** Click **Create Configuration**.



## Firmware

A configuration can be set up to deploy printer firmware. The firmware can be the latest recommended versions or the selected versions, previously uploaded as a resource in Cloud Fleet Management.

### Notes:

- If the Recommended Firmware option is selected, the latest recommended version available whenever the configuration is deployed, will be used.
- Firmware is deployed first, followed by apps and printer settings.

### Recommended firmware

Select **Update all models to the recommended firmware version** to deploy the latest recommended version of firmware version. This deploys the latest recommended version whenever the configuration is deployed.

Settings

● Firmware Apps Printer Settings

Recommended Firmware

☒ Update all models to the recommended firmware version

Other Firmware

*NOTE: Including other firmware will override the recommended firmware for supported models.*

+ Select Firmware ↑ Upload Firmware

No other firmware selected

### Other firmware

You can click **Select Firmware** to select a specific version from the Resource Library. Once you select a specific firmware, it overrides Update all models to the recommended firmware version setting for models that use the specific firmware version. Multiple firmware versions can be selected, but only one version per printer model is allowed.

Specific firmware can also be uploaded to the Resource Library and automatically selected by clicking **Upload Firmware**, and then completing the form. For more information, see [“Using Cloud Print Management clients” on page 195](#).

## Apps

A configuration can deploy eSF applications to printers. The applications deployed can be standard eSF applications or the ones uploaded to the Resource Library.



**Note:** Apps are deployed after firmware and in the order that they appear in the Apps list.

### Select Apps

Settings

Firmware **Apps** Printer Settings

Select apps to include in the configuration.

+ Select Apps    ↑ Upload App

No apps selected

Click **Select Apps** to see eSF applications available for deployment





This list contains both the standard eSF applications, and those previously uploaded to the Resource Library. You can select one or more applications from the list, and then click **Next** to review your selection.

Select Apps ×

Select one or more apps to add to the configuration.

Search apps    Total apps selected: 2

*NOTE: Incompatible apps are not selectable*

	<b>Accessibility Solution</b> Accessibility and Usability <a href="#">More Info</a>
	<b>AccuRead Automate</b> Capture and Route <a href="#">More Info</a>
	<b>Bar Code Discovery</b> Tools and Framework <a href="#">More Info</a>
	<b>BSD Bundle</b> Bundled Offerings <a href="#">More Info</a>

Total apps selected: 0




After reviewing the form, click **Done**.

Select Apps

×


Include the following 2 apps in the configuration



**Cloud Print Management**  
Tracking and Accounting

This solution enables customers to effectively manage and monitor their document output through the Lexmark Cloud Print Management offering.

[More Info](#)



**Customer Support**  
Accessibility and Usability

Allows users to report issues with their printer to the dealer from whom it was originally purchased or to an internal help desk . Information can be emailed or printed.

[More Info](#)

Cancel

Back

Done

## Upload Apps

An eSF application can be uploaded to the Resource Library and automatically selected by clicking **Upload Apps**, and then completing the form. The application file selected must be an .fls file. The uploaded application will be automatically added to the list of applications included in the configuration. For more information, see [“Using Cloud Print Management clients” on page 195](#).

Upload App

×

Uploading an app will create an imported app resource in the Resource Library.

Resource name

Description (optional)

Choose an app file to upload into this resource. An app file typically has a .fls extension

Choose File

No file selected

0 KB

Cancel

Upload App



Applications that have been uploaded to the Resource Library can be selected from the Apps catalog. Apps from the Resource Library are shown with the category type of Imported app.

## App settings

eSF applications may have configurable settings that can be deployed with the application. The settings available for each application can be viewed by clicking the arrow next to the name of the eSF application. Edit the settings to fit your specific needs. Repeat this process for each application in the configuration.

### Settings

[Firmware](#)[Apps](#)[Printer Settings](#)

Select apps to include in the configuration.

[+ Select Apps](#)[↑ Upload App](#)

▼ Customer Support

[⌚ Restore default settings](#)

▼ Basic settings

[Expand all](#)[Collapse all](#)

☐ Display Customer Info:  
*Option to choose whether or not you want to show the customer contact info on the touchscreen.*

▶ Customer information

☐ Display Dealer Info:  
*Option to choose whether or not you want to show the dealer contact info on the touchscreen.*

▶ Dealer information

Company Logo:

Choose File

No file selected

Use a PNG/GIF/JPG image with the dimensions of 120x75 pixels, not exceeding 11KB.

0 KB

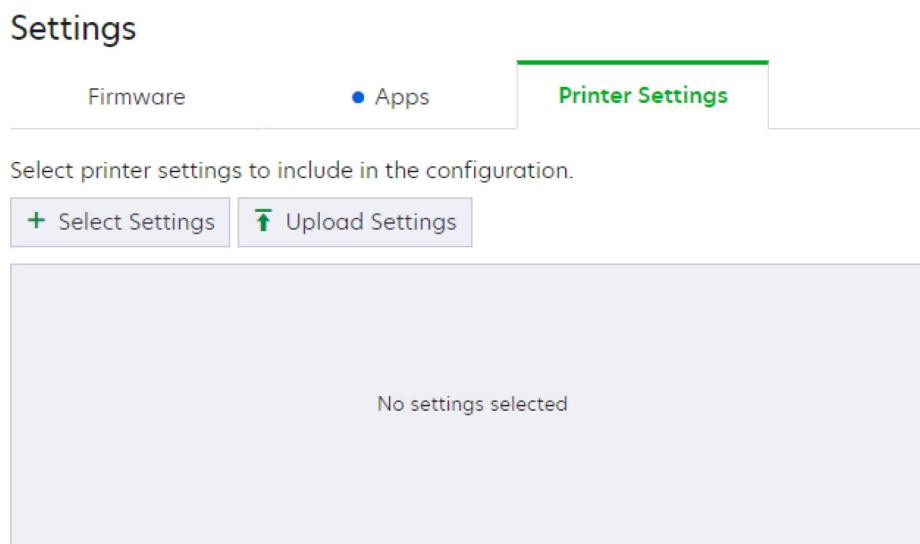
▶ Advanced settings

▶ Cloud Print Management



## Printer Settings

A configuration can be used to deploy printer settings files. The settings file must be uploaded to the Resource Library before they can be deployed.



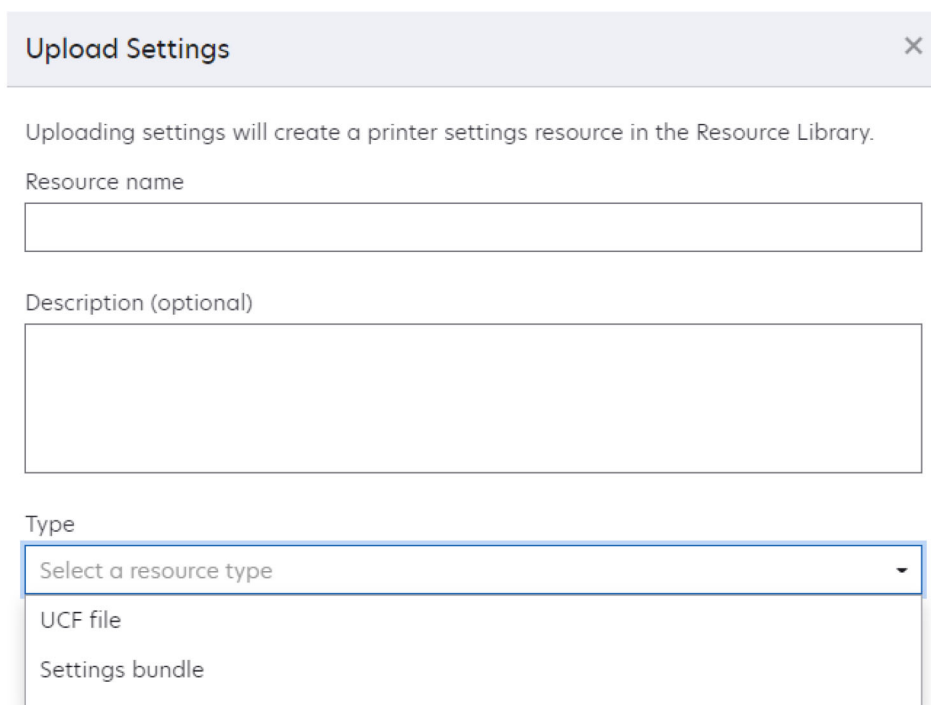
The screenshot shows the 'Settings' page with three tabs: 'Firmware', 'Apps', and 'Printer Settings'. The 'Printer Settings' tab is active and highlighted with a green border. Below the tabs, there is a text prompt: 'Select printer settings to include in the configuration.' Underneath this prompt are two buttons: '+ Select Settings' and '↑ Upload Settings'. Below the buttons is a large light gray rectangular area containing the text 'No settings selected'.

**Note:** Settings will be deployed after firmware and apps, and in the order that they appear in the list.

### Select Settings

Settings files that have been previously uploaded to the Resource Library can be selected by clicking **Select Settings**. To establish the proper settings for your needs, select one or more setting files, and then click **Select Settings**.

### Upload Settings



The screenshot shows the 'Upload Settings' dialog box. It has a title bar with the text 'Upload Settings' and a close button (X). The main content area contains the following elements: a text prompt 'Uploading settings will create a printer settings resource in the Resource Library.', a label 'Resource name' followed by a text input field, a label 'Description (optional)' followed by a larger text input field, and a label 'Type' followed by a dropdown menu. The dropdown menu is open, showing two options: 'UCF file' and 'Settings bundle'.



A printer settings file can be uploaded to the Resource Library and automatically selected by clicking **Upload Settings** and completing the form. The settings file must be a UCF or a Setting Bundle file. The uploaded settings file is automatically added to the list of settings files included in the configuration. For more information, see [“Using Cloud Print Management clients” on page 195](#).

## Using a Resource Library

The Resource Library is a repository for your custom files that can be deployed to printers as part of a configuration. Resource files consist of the following types:

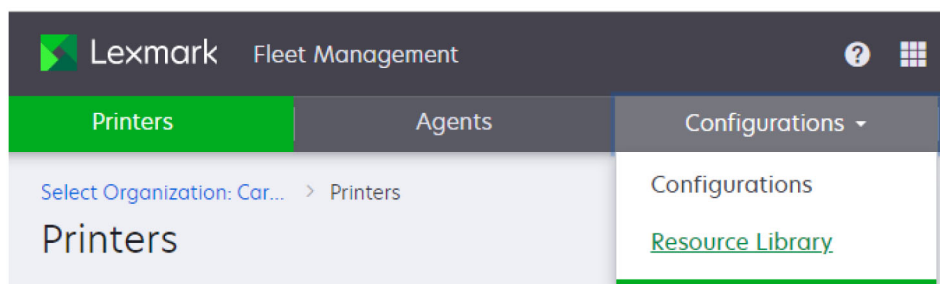
- Firmware
- eSF applications
- Printer setting files
  - Universal Configuration Files (UCF)
  - Bundles

There are two ways to add items to the Resource Library:

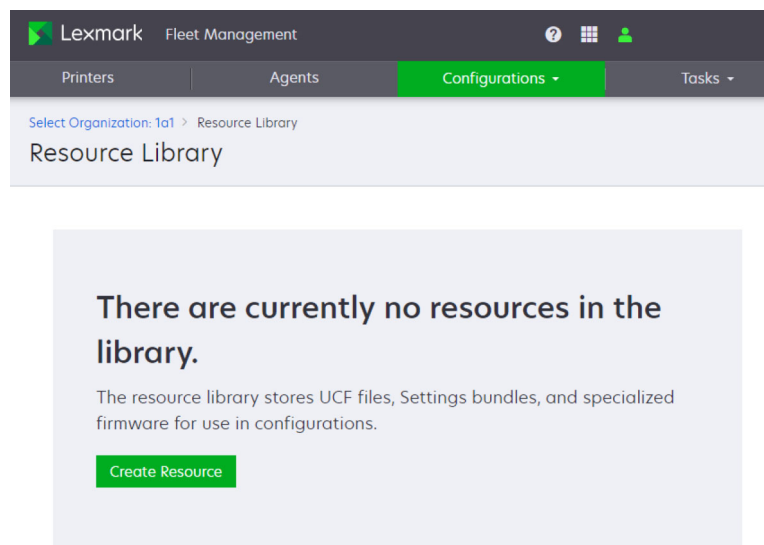
- Add files to the Resource Library for later use
- Add files to the Resource Library while creating a configuration

### Adding files to the Resource Library

- 1 From the Fleet Management portal, click **Configurations** > **Resource Library**.



- 2 Click **Create Resource** or **Create**.





	Resource Name	Description	Type	Assigned	Version	Last Modified
<input type="checkbox"/>	CS725 Firmware 7...		Firmware	Yes	PE7.6.313	7/12/2022, 2:04:5...
<input type="checkbox"/>	Customer Suppor...		UCF file	Yes		7/2/2021, 11:11:52...
<input type="checkbox"/>	CM-RESET		Imported app	Yes	1.0.0	2/18/2021, 2:05:3...
<input type="checkbox"/>	CM-Email		Imported app	Yes	1.9.0	2/18/2021, 1:54:2...
<input type="checkbox"/>	OmniKey Mgmt T...		Imported app	Yes	1.0.0	8/25/2020, 2:16:5...
<input type="checkbox"/>	FW LW70.584 PO...		Firmware	Yes	EC70.22	8/19/2020, 10:40:...

**3** In the Create Resource window, do the following:

- Type a unique name and description.
- From the Type menu, select any of the following:

- **UCF file**—Files with a .ucf or .txt extension that contain printer or eSF application settings. Click **Choose File** to browse to the UCF file.

**Notes:**

- You can use UCF files to clone settings from one printer to another or to define a standard configuration for printers.
- UCF files are the preferred method of deploying settings to older-generation printers, with firmware versions beginning with LW and LHS.
- **Settings bundle**—Settings bundle are files with a .zip extension that contains printer or eSF application settings. You can click **Choose File** to browse for the settings bundle.



**Notes:**

- You can use Settings bundle files to clone settings from one printer to another or to define a standard configuration for printers.
  - Settings bundles are the preferred method of deploying settings to the current-generation printers, with firmware versions beginning with CS, CX, MS, and MX.
- **Firmware**—Special versions of printer firmware that you can be add as a resource. Enter a specific firmware version, such as CSTAT.076.303, or a link provided by the Lexmark Customer Support Center for a specific version, and then click **Verify**. If the version or link is valid, then information about the firmware version is shown. An error is shown if the requested firmware cannot be found.

Type  
Firmware

URL link or build name  
CSTAT.076.308

Verify

*Enter and verify either the firmware URL link (from the Lexmark Technical Support Center) or build name. Examples are 'https://ccs.lexmark.com/firmware/materials/123456/file' or 'ABCDE.123.456'.*

Build name	CSTAT.076.308
Build type	IEC
Build version	7.6.308
Models supported	Lexmark C4150, Lexmark CS720, Lexmark CS725, Lexmark CS727, Lexmark CS728

Cancel Create Resource

**Note:** If an error appears, then verify that the firmware version number, or the link provided by Lexmark. If the error persists, then contact the Lexmark Customer Support Center.

URL link or build name  
CSTAT.077.303

Verify

✖ No firmware found.  
*Enter and verify either the firmware URL link (from the Lexmark Technical Support Center) or build name. Examples are 'https://ccs.lexmark.com/firmware/materials/123456/file' or 'ABCDE.123.456'.*

Cancel Create Resource

- **Imported app**—eSF applications that are not available in the standard Cloud Fleet Management application catalog. These files have an .fls extension. Click **Choose File** to browse for the esf



application file. When a valid file has been selected, information about the eSF application is shown. An error is shown if the requested eSF application file is not valid.

Type

Imported app

Choose an app file to upload into this resource. An app file typically has a .fls extension

Choose File

cloudAuth\_e6-5.6.31.fls

×

11.85 MB

Application Name	Cloud Authentication
Application Version	5.6.31
Minimum Ram Required	3,000.00 MB
Models Supported	Lexmark (105): C2240, C4150, C4342, C4352, C6160, C9235, CS622, CS720, CS725, CS727, CS728, CS730, CS735, CS820, CS827, CS920, CS921, CS923, CS927, CS943, CX522, CX622, CX625, CX725, CX727, CX730, CX735, CX820, CX825, CX827, CX860, CX920, CX921, CX922, CX923, CX924, CX927, CX928, CX930, CX931, CX942, CX943, CX944, M3250, M5255, M5265, M5270, MB2442, MB2546, MB2650, MB2770, MC2535, MC2640, MS622, MS822, MS824, MS826, MX421, MX521, MX521ade, MX521de, MX522, MX622, MX622ade, MX622adhe, MX721, MX722, MX725, MX822, MX824, MX826, MX931, XC2235, XC2240, XC4140, XC4143, XC4150, XC4153, XC4240, XC4342, XC4352, XC6152, XC6153, XC8155, XC8160, XC8163, XC9225, XC9235, XC9245, XC9255, XC9265, XC9325, XC9335, XC9445, XC9455, XC9465, XM1242, XM1246, XM3250, XM5365, XM5370, XM7355, XM7365, XM7370, XM9335

Cancel

Create Resource

**Note:** If an error appears, then verify that the name is correct and that the file is an eSF application file. If the error persists, then contact the Lexmark Customer Support Center.

Type

Imported app

Choose an app file to upload into this resource. An app file typically has a .fls extension

Choose File

cloudAuth\_e2-4\_1.fls

×

Invalid App File

1008.32 KB

Cancel

Create Resource

**4** Click **Create Resource**.



## Adding files to the Resource Library while creating a configuration

You can add files to the Resource Library while creating a configuration. For more information on creating a configuration, see [“Creating a configuration” on page 163](#).

### Adding firmware to a configuration and the Resource Library

- 1 From the Firmware tab on the Create Configuration page, click **Settings > Upload Firmware**.
- 2 Type a unique name and description.

Upload Firmware

×

Uploading firmware will create a firmware resource in the Resource Library.

Resource name

Description (optional)

URL link or build name

Verify

*Enter and verify either the firmware URL link (from the Lexmark Technical Support Center) or build name. Examples are 'https://ccs.lexmark.com/firmware/materials/123456/file' or 'ABCDE.123.456'.*

Cancel

Upload Firmware

- 3 Enter a specific firmware version, such as CSTAT.076.303, or a link provided by the Customer Support Center for a specific firmware version, and then click **Verify**.

**Notes:**

- If the version or link is valid, information about the firmware version is shown. An error is shown if the requested firmware cannot be found.
- If an error appears, then verify that the firmware version number, or the link provided by Lexmark, is entered correctly. If the error persists, then contact the Lexmark Customer Support Center.

- 4 Click **Upload Firmware**.



## Adding apps to a configuration and the Resource Library

- 1 From the Apps tab on the Create Configuration page, click **Apps > Upload App**.

Settings

Firmware Apps Printer Settings

Select apps to include in the configuration.

+ Select Apps ↑ Upload App

No apps selected

- 2 Type a unique name and description.

Upload App ×

Uploading an app will create an imported app resource in the Resource Library.

Resource name

Description (optional)

Choose an app file to upload into this resource. An app file typically has a .fls extension

Choose File No file selected

0 KB

Cancel Upload App

- 3 Click **Choose File** to browse to the esf application file.

### Notes:

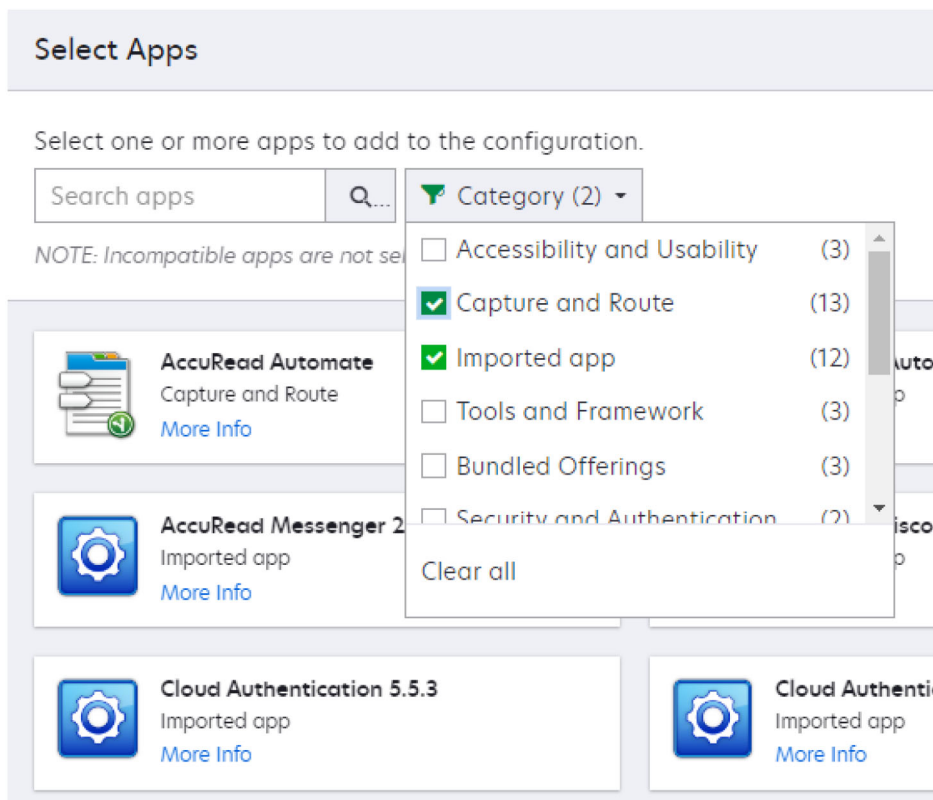
- The file name must be an FLS file. The uploaded application is automatically added to the list of applications included in the configuration.



- When a valid file has been selected, information about the eSF application is shown. An error is shown if the requested eSF application file is not valid.
- If an error appears, then verify that the name is correct and that the file is an eSF application file. If the error persists, then contact the Lexmark Customer Support Center.

#### 4 Click **Upload App**.

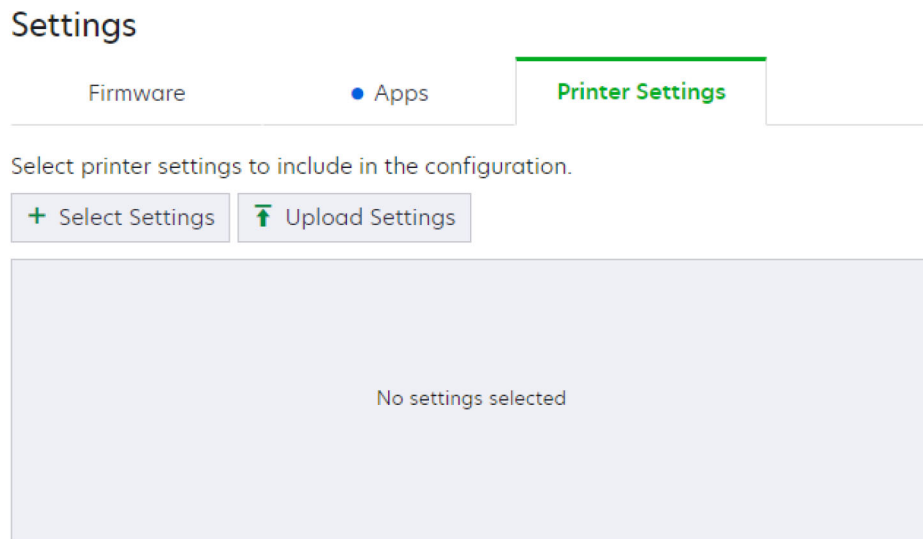
**Note:** The eSF application is added to the current configuration and added to the Resource Library. Applications that have been uploaded to the Resource Library can be selected from the Apps catalog.





## Adding a settings file to a configuration and the Resource Library

- 1 From the Printer Settings tab on the Create Configuration page, click **Printer Settings > Upload Settings**.



- 2 From the Type menu, select **UCF** or **Settings bundle**.

- 3 Click **Upload Settings**.

**Note:** You can use UCF files and Settings bundle files to clone settings from one printer to another or to define a standard configuration for printers.

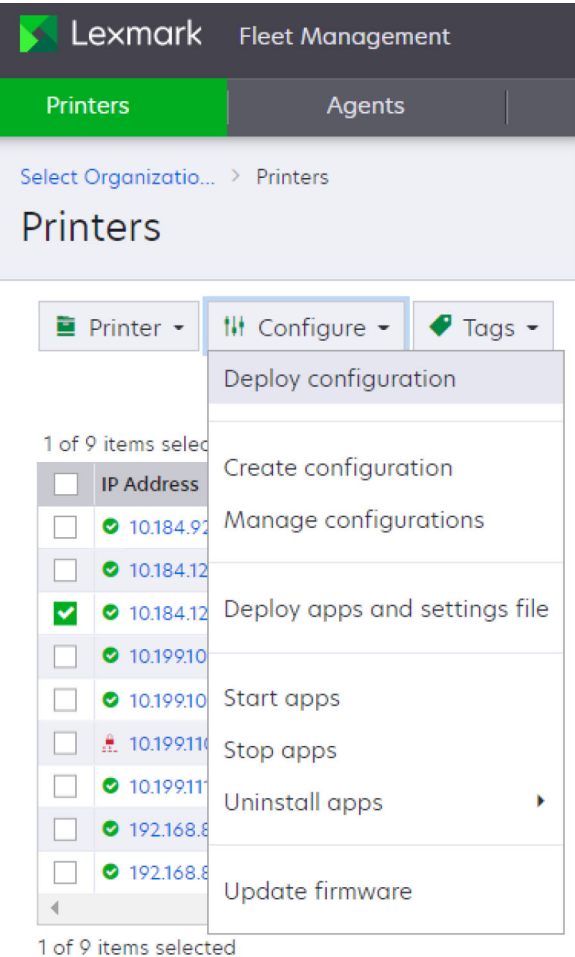
## Deploying a configuration

You can apply a configuration to multiple printers simultaneously and then reuse it anytime.

- After a configuration is deployed, it cannot be edited.
- When a configuration is deployed, it deploys the latest recommended versions of the standard firmware and eSF applications that it contains.
- When a configuration is deployed, there is an implicit order of deployment to the printer.
  - Firmware
  - Applications, in the same order that they appear in the configuration
  - Settings files, in the same order that they appear in the configuration

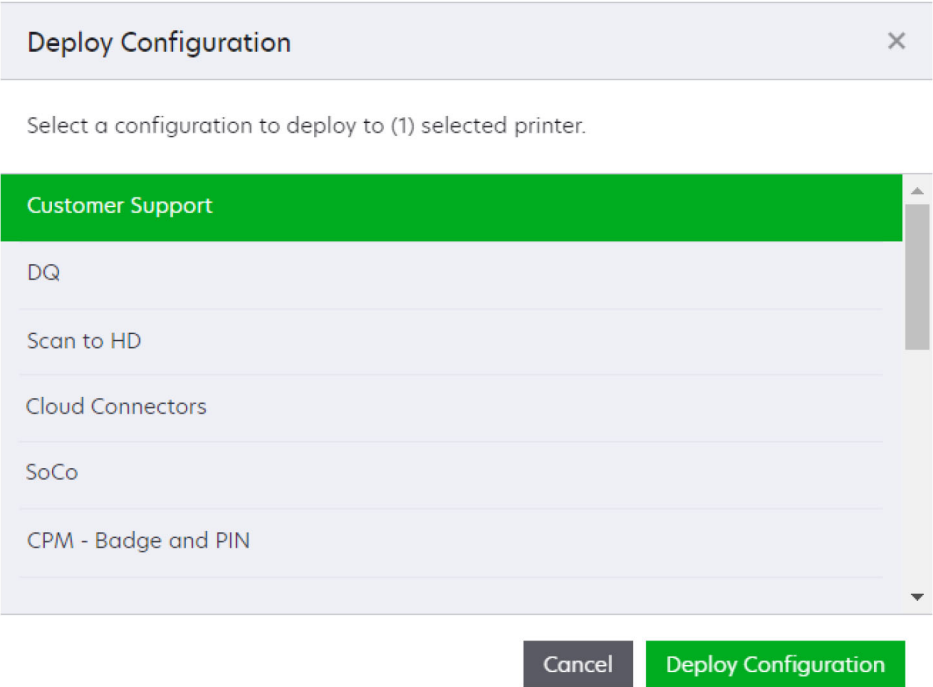


1 From the Fleet Management portal, click **Printers > Configure > Deploy configuration**.

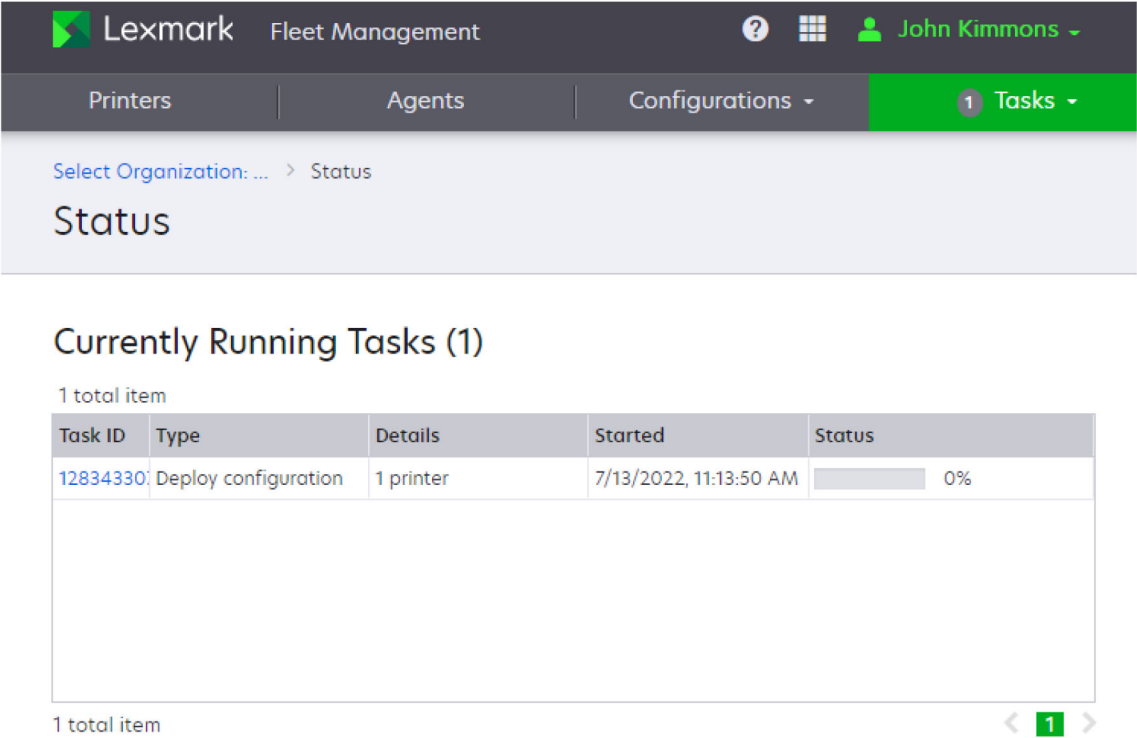




**2** Choose the configuration to deploy, and then click **Deploy configuration**.



**Note:** You can view the status of the deployment in the Tasks tab.

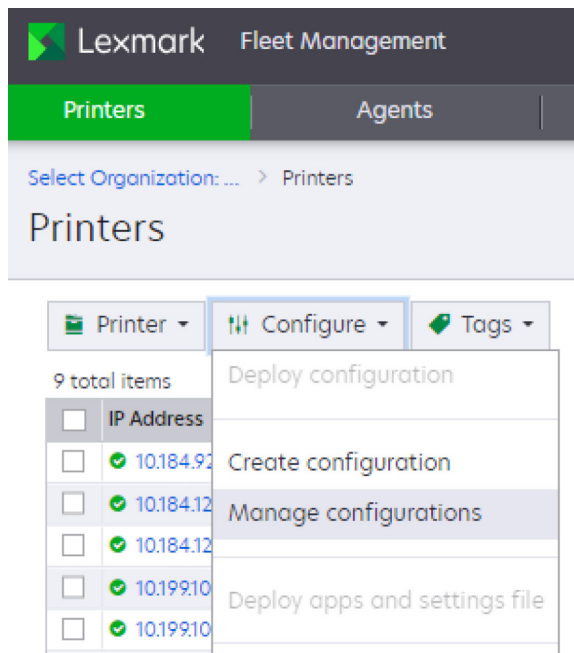


**Redeploying a configuration**



Configurations can be redeployed as many times as needed. Each time it deploys the latest recommended versions of the standard firmware and eSF applications that it contains. Items added from the Resource Library retain their original version.

### Managing a configuration



After creating configurations, you can edit, copy, or delete them, or set them as default configurations.

**Note:** After deploying a configuration, it cannot be edited.

You can access the list of configurations by clicking **Configurations > Configurations**.

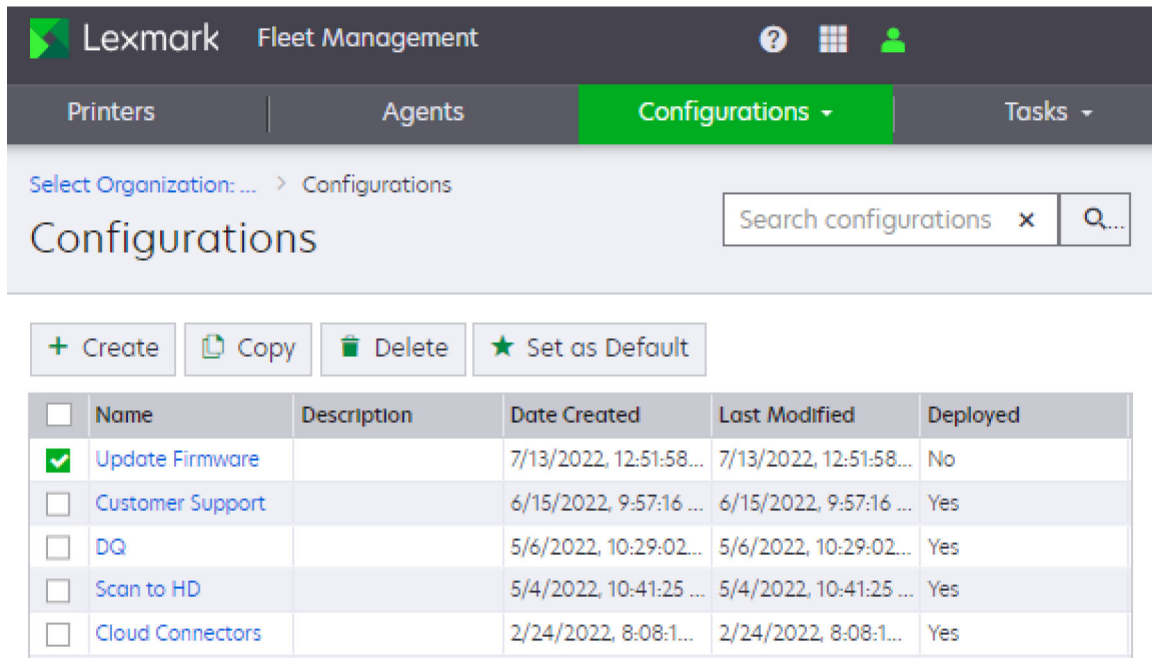
You can also access the list of configurations by clicking **Printers > Configure > Manage configurations**.



## Editing a configuration

Only configurations that have not been deployed can be edited. These configurations are indicated by a **No** in the Deployed column.

- 1 From the Configurations page, click the name of the configuration.



Lexmark Fleet Management

Printers Agents Configurations Tasks

Select Organization: ... > Configurations


Configurations

Search configurations x Q...

+ Create Copy Delete Set as Default

<input type="checkbox"/>	Name	Description	Date Created	Last Modified	Deployed
<input checked="" type="checkbox"/>	Update Firmware		7/13/2022, 12:51:58...	7/13/2022, 12:51:58...	No
<input type="checkbox"/>	Customer Support		6/15/2022, 9:57:16 ...	6/15/2022, 9:57:16 ...	Yes
<input type="checkbox"/>	DQ		5/6/2022, 10:29:02...	5/6/2022, 10:29:02...	Yes
<input type="checkbox"/>	Scan to HD		5/4/2022, 10:41:25 ...	5/4/2022, 10:41:25 ...	Yes
<input type="checkbox"/>	Cloud Connectors		2/24/2022, 8:08:1...	2/24/2022, 8:08:1...	Yes

**Note:** If the name of a deployed configuration is clicked, an error message is shown.

 This is a deployed configuration and cannot be modified.

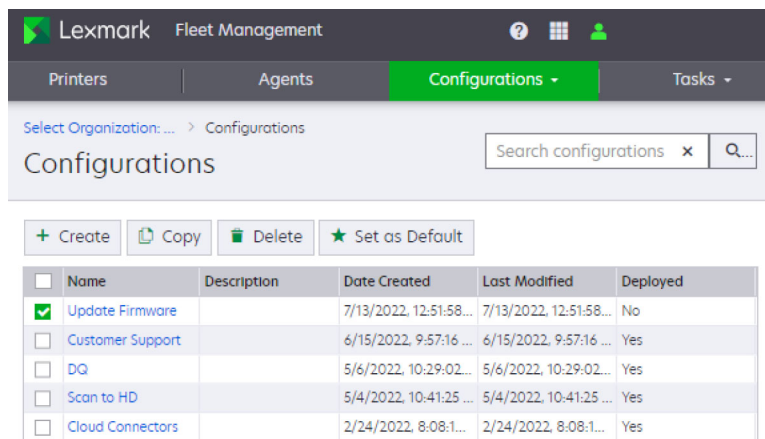
- 2 Edit the configuration, and then click **Save Changes**.



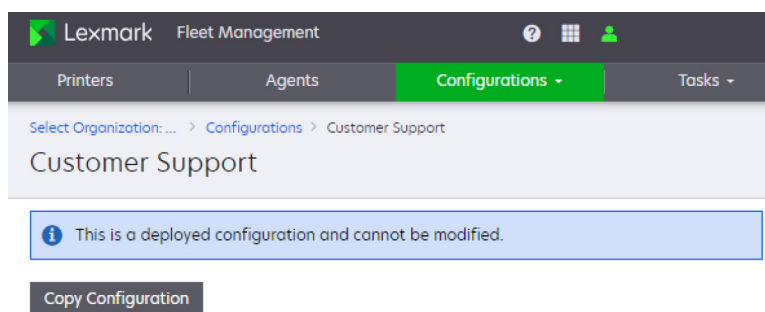
## Copying a configuration

1 To copy a configuration do one of the following.

- From the Configurations page, select a configuration, and then click **Copy**.



- Click the name of a deployed configuration, and then click **Copy Configuration**.



2 Type the name of the new configuration, and then click **Copy Configuration**.

**Note:** Selecting Edit configuration after copy opens the newly created configuration in edit mode.

Copy Configuration

Name of the new configuration

Copy the configuration to the following organization  
  
Type to search for an organization and then select from resulting list.

☒ Edit configuration after copy

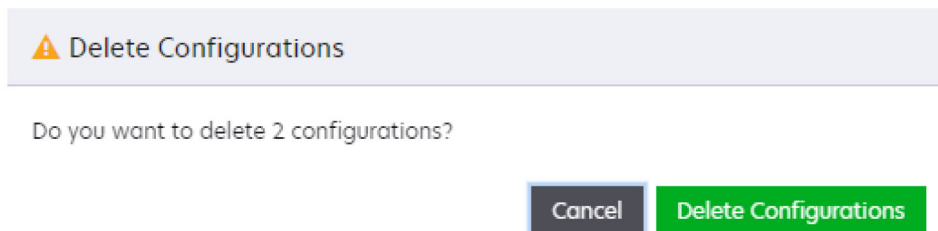
Cancel Copy Configuration

**Note:** Users with the Partner Administrator role can copy a configuration to any organization under the channel partner's parent organization by entering the name of the destination organization.



### Deleting a configuration

- 1 From the Configurations page, select one or more configurations.
- 2 Click **Delete** > **Delete configuration**.

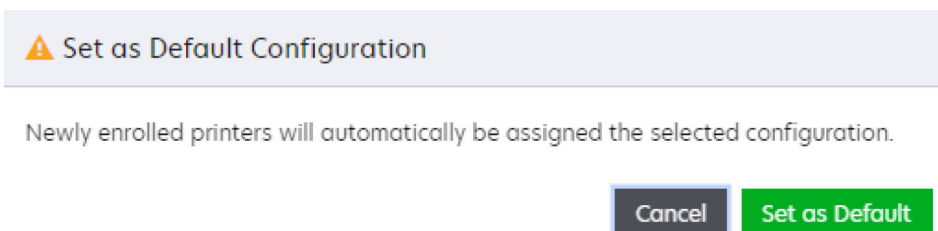


### Setting or removing a default configuration

A configuration can be designated as a default configuration. A default configuration is automatically deployed to newly enrolled printers.

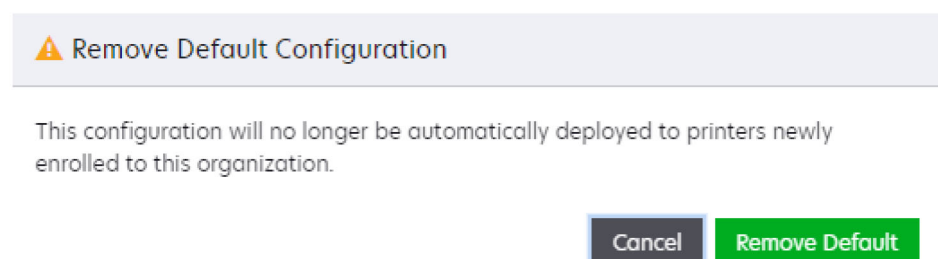
#### Setting a default configuration

- 1 From the Configurations page, select a configuration, and then click **Set as Default**.
- 2 Click **Set as Default**.



#### Removing a default configuration

- 1 From the Configurations page, select a configuration, and then click **Remove Default**.
- 2 Click **Remove Default**.



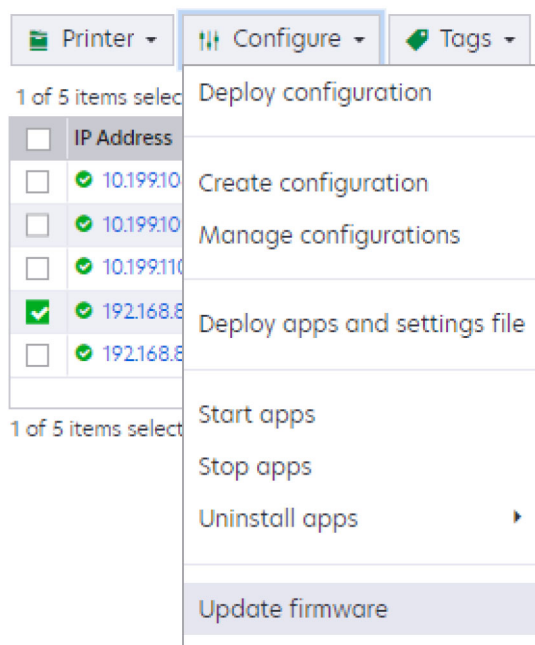


## Deploying files without using a configuration

### Deploying a firmware

You can update firmware without including it in a configuration. Firmware can either be updated now or you can schedule the update at a later time.

- 1 From the Fleet Management portal, in the Printers page, select one or more printers.
- 2 Click **Configure** > **Update Firmware**.



- 3 In the Update Firmware window, select any of the following:

Update Firmware

×

Update firmware to the latest recommended version for 1 printer.

When should the firmware update occur?

Now

Now

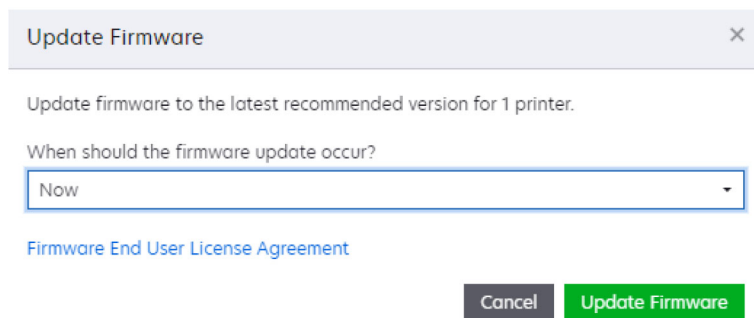
Specific date and time

Cancel

Update Firmware



- **Now**—Sends an Update firmware task to the agent associated with each selected printer. The latest recommended version of firmware is sent to each selected printer.



Update Firmware

Update firmware to the latest recommended version for 1 printer.

When should the firmware update occur?

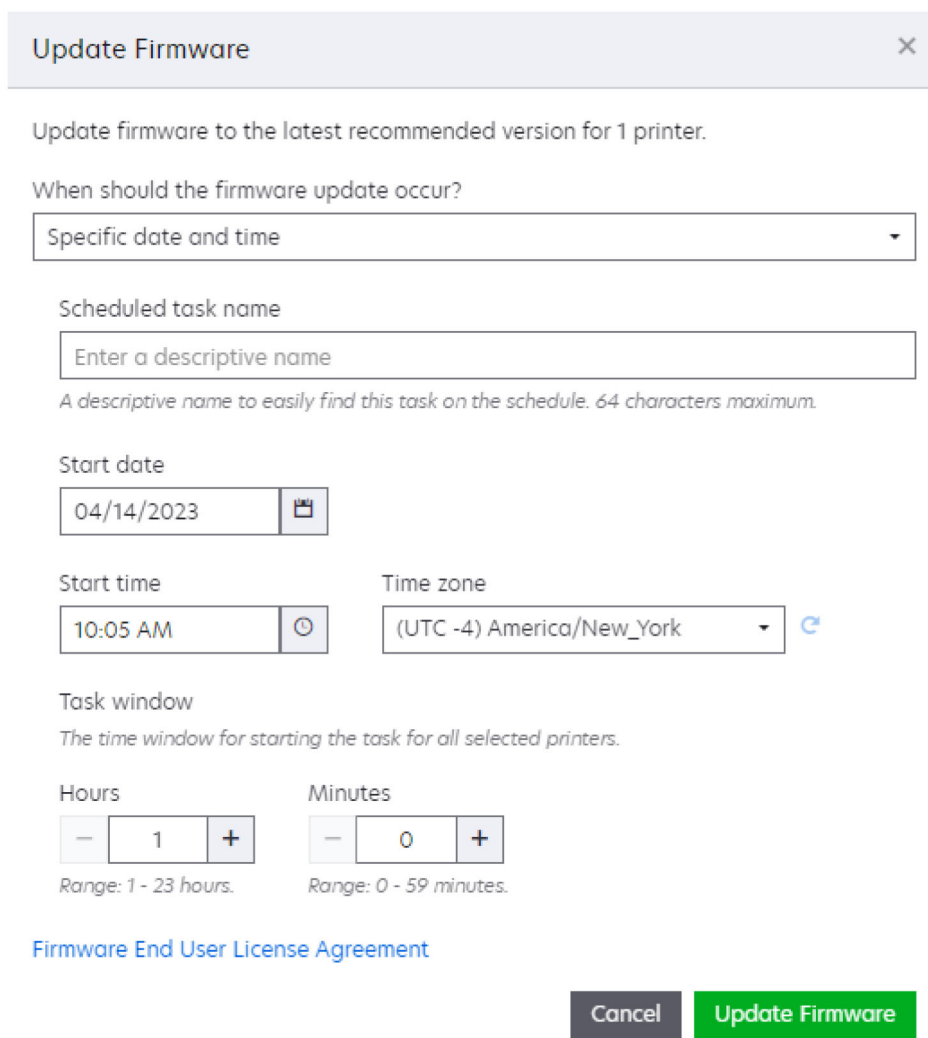
Now

[Firmware End User License Agreement](#)

Cancel Update Firmware

**Note:** This may adversely affect latency on your network.

- **Specific date and time**—Schedule the firmware updates in order to minimize network latency and impact on your business operations.



Update Firmware

Update firmware to the latest recommended version for 1 printer.

When should the firmware update occur?

Specific date and time

Scheduled task name

Enter a descriptive name

*A descriptive name to easily find this task on the schedule. 64 characters maximum.*

Start date

04/14/2023

Start time

10:05 AM

Time zone

(UTC -4) America/New\_York

Task window

*The time window for starting the task for all selected printers.*

Hours

1

Minutes

0

*Range: 1 - 23 hours.* *Range: 0 - 59 minutes.*

[Firmware End User License Agreement](#)

Cancel Update Firmware

The Update Firmware window shows date and time selection options. Firmware on the selected printers are updated at the date and time specified. An Update firmware task is sent to the agent associated with



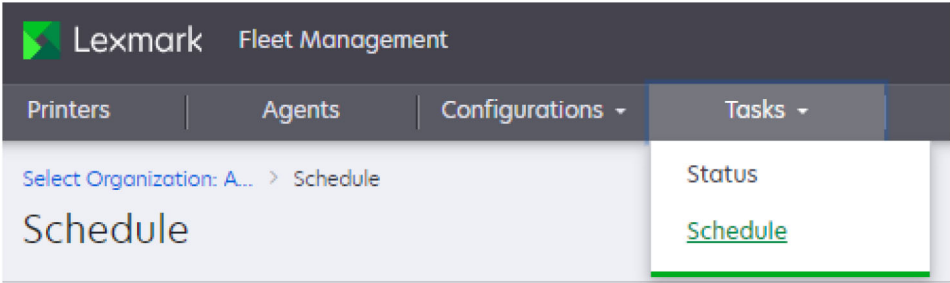
each selected printer at the date and time specified. The latest recommended version of firmware is sent to each selected printer.

**When should the firmware update occur?**

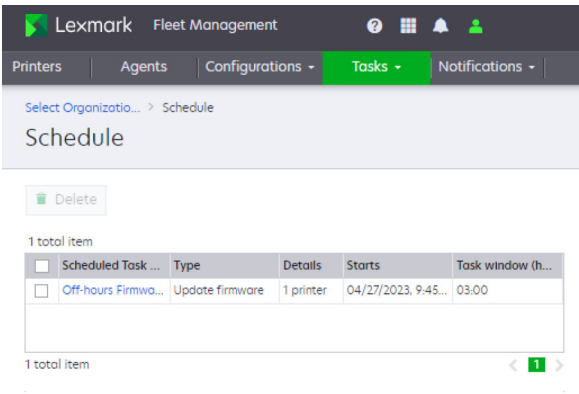
This menu toggles the Update Firmware window between the Now and Specific date and time options.

**Scheduled task name**

This field allows you to name the firmware update operation. This name is used to identify the update task on the Schedule page.



You can make changes to a scheduled task before it starts by clicking on the name of the task. You can also delete tasks that have not yet started by selecting them, and then clicking **Delete**.



**Note:** Once a scheduled task has started, it cannot be modified nor deleted.

**Start date, Start time, and Time zone**

These fields determine when the Firmware update task will start. The time zone field allows you to regionalize the start time. This is helpful if the locations of your printers span multiple time zones.

Start date

04/14/2023

Start time

10:05 AM

Time zone

(UTC -4) America/New\_York

**Task window**



The task window parameters determine how much time will be allowed to update the firmware on all the selected printers. They are used to set a time limit on the duration of the updates to minimize the impact on your network. No firmware updates will be initiated after the task window expires.

#### Task window

*The time window for starting the task for all selected printers.*

Hours

–	1	+
---	---	---

Range: 1 - 23 hours.

Minutes

–	0	+
---	---	---

Range: 0 - 59 minutes.

#### Notes:

- Any firmware update job that is not launched in the specified task window will expire.
- If you are updating firmware for multiple printers, then make sure that the task window is large enough.
- For a large number of printers, divide them into batches to further minimize the network impact.

#### 4 Click **Update Firmware**.

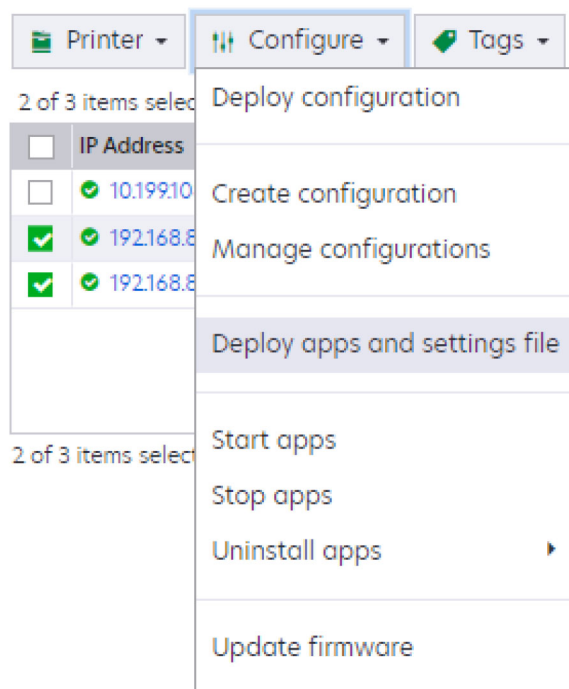
### Deploying applications and settings

You can deploy printer applications and settings files to printers without having to create a configuration.

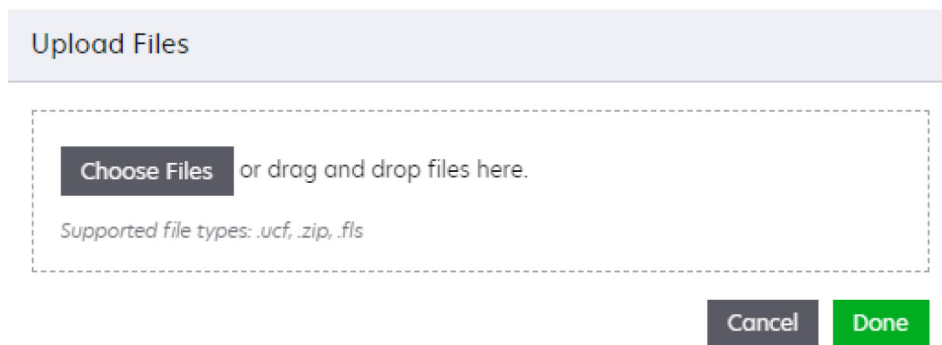


**Note:** This deployment is for one time only and is not saved for reuse.

- 1 From the Fleet Management portal, in the Printers page, select one or more printers.
- 2 Click **Configure** > **Deploy apps and settings file**.



- 3 In the Upload Files window, click **Choose Files** to browse for the application and settings file or drag and drop the files onto the Upload Files window, and then click **Done**.





# Customize your print environment

## Cloud Print Management overview

Cloud Print Management lets you securely submit and release print jobs at an enabled printer and then capture that activity in Analytics. There are several ways you can choose to submit and release print jobs and any or all may be used in your organization. The various ways of submitting and release print jobs are as follows:

- Print Release
- Hybrid Print Release
- Direct Print

### Notes:

- All methods require connectivity with Lexmark Cloud Services.
- All printers used with Cloud Print Management must be enrolled in Cloud Fleet Management.

## Print Release

Print Release lets you submit print jobs to Lexmark Cloud Services, where they are securely stored while waiting to be printed. To print submitted jobs, log in at a printer configured for Print Release and then select the jobs that you want to print. The printer reports the job metrics to the Analytics services for your review and analysis.

Print jobs may be submitted using any of the following methods:

- A client application on the workstation
- Dragging-and-dropping in the Cloud Print Management portal
- A print extension added to the Google Chrome browser
- The Lexmark Print application for the iOS operating system software or the Android platform
- An e-mail sent to an address configured for your organization

## Hybrid Print Release

When you print using Hybrid Print Release, a client application on their workstation securely stores the print job on your workstation and then informs Lexmark Cloud Services that a user has a hybrid print job ready to be released. When the user authenticates, and selects their print job for release, the printer communicates directly with your workstation to release the print job. The print job never leaves your organization's network.

**Note:** Make sure that your workstation is online when retrieving the hybrid print job, and that a client application is installed on each of your workstations.

## Direct Print

Direct Print lets you submit print jobs directly to an administrator-designated, network-connected printer using port 9100 through a client application on your workstations. The print job never leaves your organization's network. The print job never leaves your organization's network.



## Using Cloud Print Management

### Cloud Print Management roles

Roles must be based upon the users' needs and job activities. Users who receive access to a print release method must have at least one of the following roles:

- Users who will be submitting and releasing print jobs:
  - For Print Release—Print Release Management User
  - For Hybrid Print Release—Hybrid Print Management User
  - For Direct Print—Direct Print Management User
- Users who will be administering the print environment for their organization:
  - For Print Release—Print Release Management Administrator
  - For Hybrid Print Release—Hybrid Print Management Administrator
  - For Direct Print—Direct Print Management Administrator
- Users who need to review the print activity of their organization, but will not be administering the print environment:
  - For all print release methods—Print Release Management Reporting Analyst
- Channel Partners who can administer any of the print release methods in their customer's organization must be a member of a Child Organization Access Group that includes the appropriate administrator role for the print release method:
  - Before you can administer a print release method in one of your customer organizations, it must be enabled in your organization.

For more information on user roles definition, see [“Understanding roles” on page 240](#).

### Assigning roles

User roles are managed from the Account Management portal. You can assign roles to users in three ways:

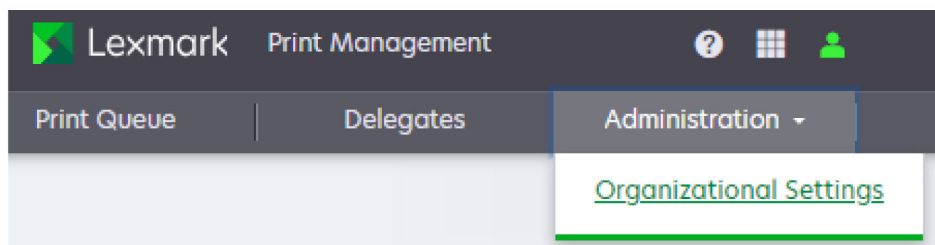
- **Assigned to an individual user**—Requires assigning roles manually to each user.
- **Assigned through group membership**—Allows a set of roles to be given to users by making them a member of a group. Users can be members of more than one group.
- **Assigned as an organization role**—Automatically assigns the organization roles to all users in the organization.

**Note:** The assignment method depends on the needs of the organization. For more information, see [“Overview” on page 239](#).



## Understanding Cloud Print Management administrative options

Various Cloud Print Management features and functions can be tailored through the Organizational Settings menu. From the Print Management portal, click **Administration** > **Organizational Settings**.



**Note:** The user must have the **Print Release Management Administrator** role to see and access the Administration menu. For more information, see [“Configuring organizational settings” on page 354](#).



## Organizational Settings

## General

☒ Enable Print Clients page

Users will be able to navigate to the Print Clients page.

☒ Enable print job delegation

Users will be able to delegate their print jobs to other users for print release.

☒ Enable delegate e-mail notification

Delegates will receive an e-mail when they are added or removed as delegates to other users.

☒ Enable e-mail submission

Users will be able to e-mail their documents to Lexmark Cloud for print release.

☐ Enable e-mail body submission

Include e-mail body as a separate releasable print job.

E-mail documents to the following custom address

guestprint\_test

@print.lexmark.com

This address will be available within 24 hours after enabling e-mail submission.

☐ Allow guests to use e-mail submission

Guest users will be able to e-mail their documents to Lexmark Cloud for print release.

☒ Enable changing the number of copies before release

Users will be able to change the number of copies prior to releasing a print job.

☒ Enable print and keep

Users will have the option to retain a print job in their print queue when releasing it.

☐ Enable automatic print release

All jobs in a user's print queue will automatically release after logging in to a printer. Enabling this feature may increase your organization's print volume.

☒ Keep print job filenames for reporting

Stores the user's print job filenames for use in organizational reporting.

☐ List and auto-release oldest print jobs first

Oldest print jobs will appear first in listings and auto-release first (if that feature is enabled).

☒ Enable print quotas

Set total and color printing limits for this organization

Assign quotas by

- ☒ Cost center or personal
- ☐ Department or personal
- ☐ Personal only

☒ Enable print policies

Create and enforce rules to override specific settings of a print job for this organization.

Assign print policies by

- ☐ Cost center or personal
- ☒ Department or personal
- ☐ Personal only

☒ Enable direct print

Create, edit and delete direct print assignments that specify printers to which a user may print in this organization.

Create direct print assignments using

- ☒ Cost center or personal
- ☐ Department or personal

## Print Job Retention

Delete print jobs older than

7 days

1 - 7 days

## Print Job History

Show print job history for the last

7 days

1 - 7 days

## Universal Print Integration

☐ Enable Universal Print

Registers a printer to Azure Active Directory(AD) for releasing print jobs through Cloud Print Management.

Save Changes

Discard Changes

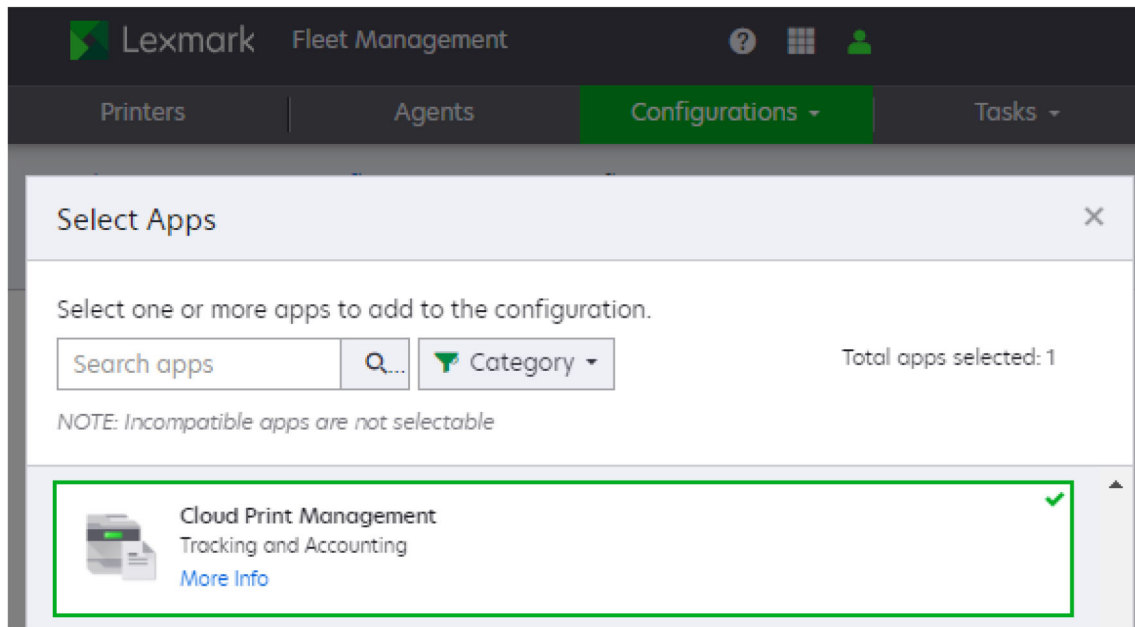
## Deploying the Cloud Print Management bundle

Before you can use Cloud Print Management to release print jobs, you must deploy the Cloud Print Management eSF application bundle.

### Creating a configuration for Cloud Print Management



The eSF applications that make up the Cloud Print Management bundle are deployed from the Fleet Management portal by creating a configuration. For more information on creating a configuration, see [“Creating a configuration” on page 163](#).



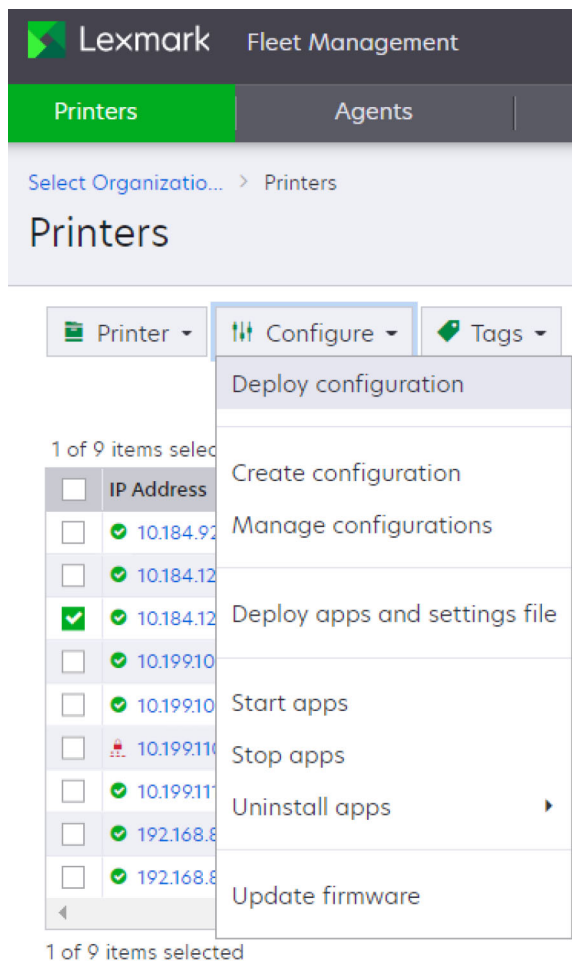
**Note:** Only printers managed by Cloud Fleet Management can have the Cloud Print Management bundle deployed from the Fleet Management portal.



## Deploying a Cloud Print Management configuration

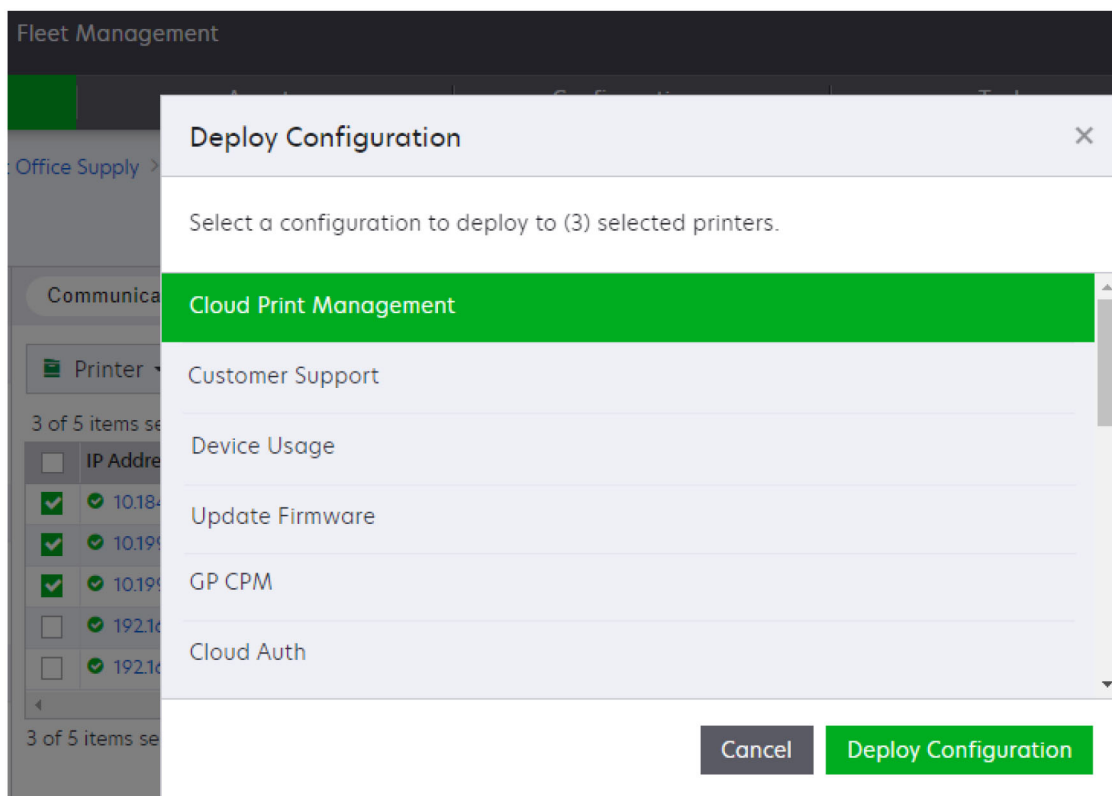
You can apply a configuration to multiple printers simultaneously and then reuse it anytime.

- 1 From the Fleet Management portal, click the **Printers** tab.
- 2 Select one or more printers, and then click **Configure > Deploy configuration**.





- 3** In the Deploy Configuration window, select the configuration, and then click **Deploy configuration**.



**Note:** For more information on deploying a configuration, see [“Deploying a configuration” on page 177](#).

## Using Cloud Print Management clients

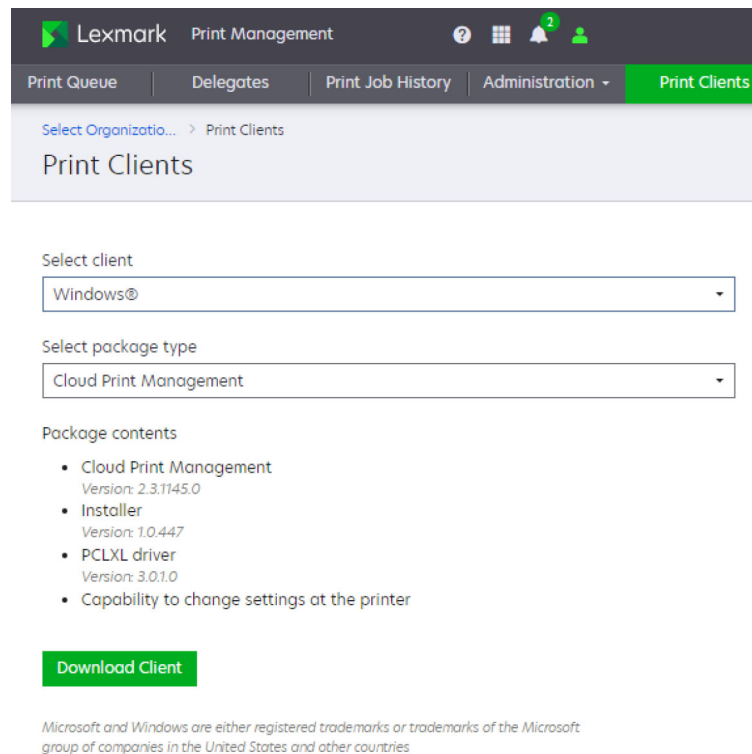
To use Cloud Print Management, Hybrid Print Release, or Direct Print, you must install the Lexmark Print Management Client (LPMC) client application on the users' workstations.



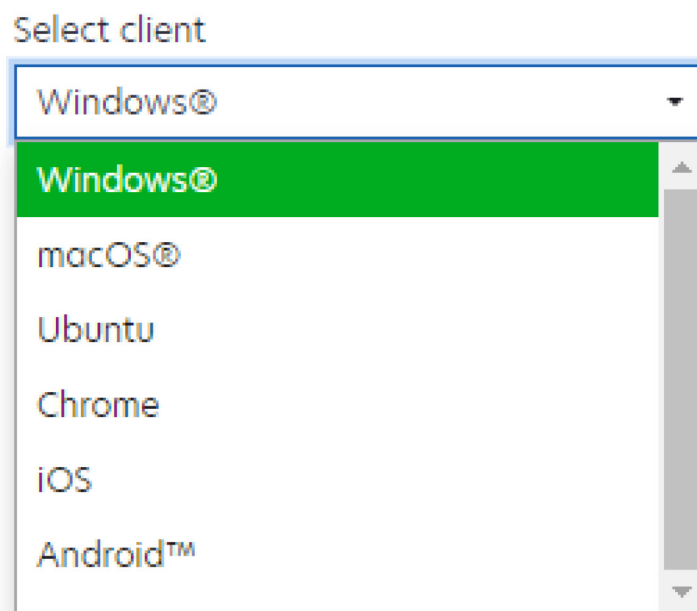
## Downloading a client package

You can download the LPMC from the Print Clients tab in the Print Management portal.

- 1 From the Print Management portal, click **Print Clients**.
- 2 In the Print Clients page, do the following:



- From the Select client menu, select any of the following:



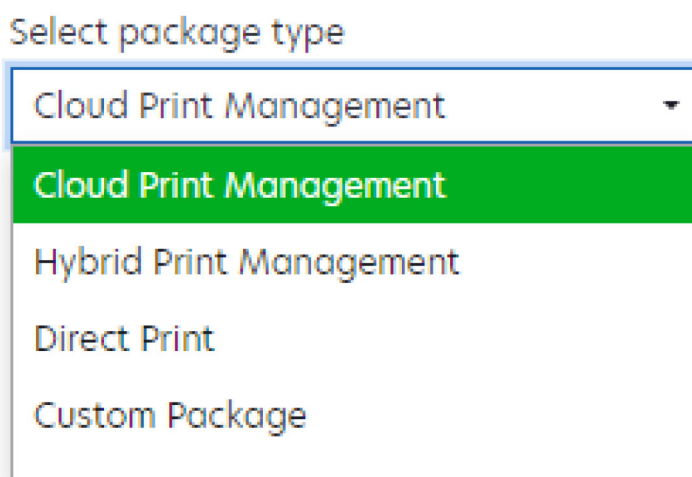


- **Windows®**
- **macOS®**
- **Ubuntu**
- **Chrome**—The Cloud Print Management for Google Chrome™ extension on the Chrome Web Store for use with the Google Chrome operating system and Chrome browser
- **iOS**—The Lexmark Print application for iOS on the Apple App Store online store
- **Android™**—Lexmark Print application for Android on Google Play™ store

**Note:** If you select Chrome, iOS, or Android, then you are provided a link to the external site for the Lexmark Cloud Services print client application.

- From the Select Package Type menu, select any of the following:

**Note:** You can download an LPMC package with default settings for Cloud Print Management, Hybrid Print Release, or Direct Print. You can also create a customized LPMC package by selecting the Custom Package option.



- Cloud Print Management
- Hybrid Print Management
- Direct Print
- Custom Package

**3** If you selected Cloud Print Management or Hybrid Print Management, then click **Download Client** to download the package.

If you selected Custom Package, then you have to create a custom package.

**Note:** If you selected Direct Print, then see [“Using Direct Print” on page 201](#).

### Creating a custom LPMC package

The Custom Package option lets you create an LPMC installation package that is suited to your needs. To customize, you can do any of the following:

- Combine one or more submission types in a single package. A single package can include Cloud Print Management, Hybrid Print Management, and Direct Print.
- Change global client settings.



- Select the print driver to install.
- Set an LPMC print queue as the default print queue on the workstation.

Create Custom Windows Package

Global Configuration Settings

Settings are common to all Lexmark Print Management Client Configurations.

☒ Display print status notifications

☒ Delete unused client folders

Delete after (days)

-7+

Range: 1 - 180 days

Cloud Print Management

Print jobs are stored in and released from the cloud.

☒ Enable Cloud Print Management

Print queue name

☒ Use default name [Cloud Print Management]

☐ Set custom name

Enter print queue name

Print queue name must be at least 3 characters and not include special characters \./#

Hybrid Print Management

Print jobs are stored in and released from the user's computer. Data is never sent to the cloud.

☒ Enable Hybrid Print Management

Print queue name

☒ Use default name [Hybrid Print Management]

☐ Set custom name

Enter print queue name

Print queue name must be at least 3 characters and not include special characters \./#

☒ Allow user to change print settings when releasing jobs at the printer

Direct Print

☒ Enable Direct Print

Select one or more direct print assignments to include in the package.

Selected assignments: 0 cost centers, 0 personals

Cost Centers

Personal

1 total item

<input type="checkbox"/>	Assignment Name	Cost Centers	Printer Tags
<input type="checkbox"/>	AJ - Direct Print Assign...	Benelux	Lexmark NL - Direct Pri...

1 total item

View25<1>

Print Driver Type

☒ PCL XL

☐ PCL 5

☐ Postscript

☐ Exclude Print Driver

Set Default Printer

☒ Cloud Print Management

☐ Hybrid Print Management

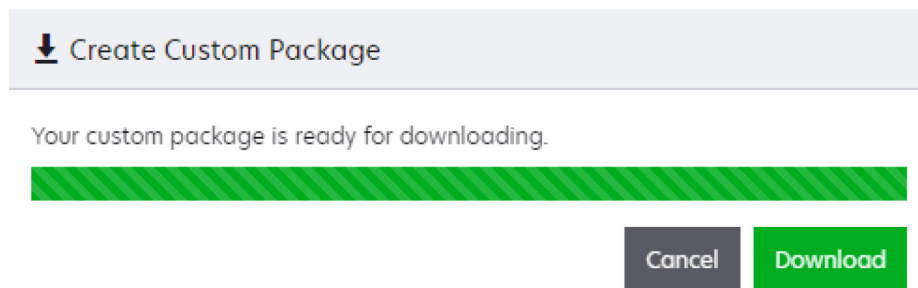
☐ None

Create

Cancel



Once the custom package is ready, click **Create > Download**.



**Note:** The package is a compressed file that must be extracted before installation.

### Installing Lexmark Print Management clients on workstations

After downloading default LPMC client applications, from the Client Download page, you can install them on workstations. For custom packages, you must extract the downloaded file before installing them. For more information on installing LPMC, see [“Installing the Lexmark Print Management Client” on page 368](#).

### Printing with Cloud Print Management

You can submit print jobs using the following ways:

- From your workstation
- From your print queue in the Print Management portal
- From your mobile device

#### Printing from your workstation

From your workstation, you can submit print jobs by doing one of the following:

- From a desktop application, select **File > Print**, and then select a Print Management queue.
- From the Google Chrome operating system or browser, select **File > Print**, and then select a Print Management queue.

**Note:** To print from the Chrome operating system or browser, you must install the Lexmark Cloud Print Management for Chrome extension. For more information, see [“Sending print jobs from the Chrome OS operating system” on page 372](#).

- Using email

**Note:** Your organization must be configured to accept print jobs using email. For more information, see [“Sending print jobs using e-mail” on page 372](#).



### Submitting a print job in the Print Management portal

- 1 From the Print Management portal, click **Print Queue > Upload File**.
- 2 Drag and drop files in the Upload File window or click **Choose Files** to browse to the file you want to print.



- 3 Click **Done**.

### Submitting a print job from your mobile device

- Print jobs can be submitted from devices running the iOS operating system software or the Android platform. For more information, see [“Mobile printing” on page 373](#).

### Using Cloud Print Management with third-party printers

You can use Cloud Print Management with printers that do not support eSF applications, including Lexmark printers that are not solutions-enabled and printers from third-party manufacturers.

Cloud Print Management is enabled on these printers by using the ELATEC TCP3 adapter, a device that connects between the customer's network and the printer. It also provides a USB connection for badge or card readers. The TCP3 adapter handles all user badge or card authentication and passes the user's print jobs from Lexmark's Cloud Print Management service to the printer. For more information, including limitations on using the ELATEC TCP3 adapter, see [“Printing jobs from third-party printers using Cloud Print Management” on page 380](#).





**Note:** The Elatec TCP3 Adapter receives power either from an external 5Volt power source or from an Ethernet connection that supports power over ethernet. See the Technical Manual provided with the Elatec TCP3 for more details.

## Using Direct Print

### Direct Print overview

Direct Print lets you submit print jobs directly to an administrator-designated, network-connected printer using port 9100 through a client application on your workstations. The print job never leaves your organization's network.

Print jobs are sent using port 9100 by the Lexmark Print Management Client (LPMC) directly to an administrator-designated, network-attached printer. When using the Direct Print feature, print jobs never leave your organization's local network. The LPMC reports job metrics to Lexmark Cloud Services.

### Enabling Direct Print

- 1 Enroll printers for Direct Print in Cloud Fleet Management and assign a tag to them. For more information, see [“Assigning printers to Direct Print” on page 202](#).
- 2 Enable Direct Print for the organization. For more information, see [“Enabling Direct Print” on page 202](#).
- 3 Create Direct Print assignments. For more information, see [“Creating Direct Print assignments” on page 204](#).
- 4 Download and install the Lexmark Print Management Client configured for Direct Print. For more information, see [“Using Direct Print clients” on page 209](#).

### Notes:

- You must have the Direct Print Release Administrator role.
- Connectivity with Lexmark Cloud Services is required.
- A Direct Print configuration file must be applied when the LPMC is installed to enable Direct Print functionality.
- Printers used by Direct Print must be enrolled in Cloud Fleet Management.

### Printing with Direct Print

You can submit print jobs by clicking **File > Print** from desktop applications, and then selecting a Direct Print queue.

**Note:** Using Direct Print to submit jobs is supported in desktops only, not in mobile devices.

### Direct Print roles

Users given access to the Direct Print feature of Cloud Print Management must have at least one of the following roles based on tasks that they plan to perform:

- Users submitting and releasing print jobs using Direct Print must have the **Direct Print Management User** role.
- Users managing Print Management for their organization must have the **Direct Print Management Administrator** role.



- Users generating organizational Cloud Print Management reports but do not have the **Direct Print Management Administrator** role must have the **Print Release Management Reporting Analyst** role.
- Channel partners who manage printers in their customers' organizations must be members of a Child Organization Access Group. The group must have the **Direct Print Management Administrator** role assigned to it.

**Notes:**

- Before a channel partner can administer Cloud Print Management in a customer organization, you must enable Cloud Print Management in the channel partner's organization. For more information, see [“Assigning roles” on page 68](#).
- For more information on roles, see [“Understanding roles” on page 240](#).

**Assigning roles**

User roles are managed from the Account Management portal. You can assign roles to the users in the following ways:

- **Assigned roles individually**—Requires that assigning roles manually to each user.
- **Assigned roles through groups**—Allows a set of roles to be given to users by making them a member of a group. Users can be members of more than one group.
- **Inheritance through organization roles**—Automatically assigns the organization roles to all users in the organization.

The assignment method depends upon the needs of the organization. For more information, see [“Assigning roles” on page 68](#).

**Assigning printers to Direct Print**

Printers used with Direct Print must be enrolled in Fleet Management. Each printer must also have at least one Fleet Management tag applied to it.

For more information on enrolling printers in Fleet Management, see [“Enroll your printers” on page 105](#).

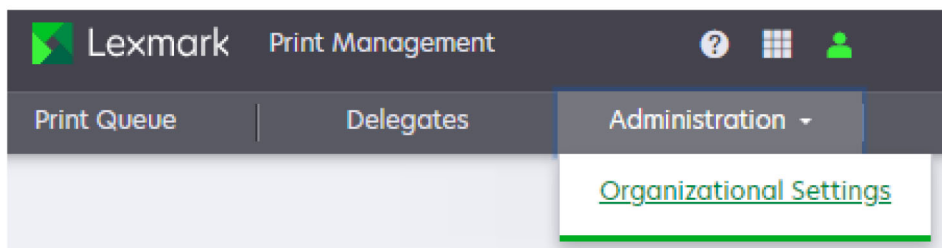
For more information on applying tags to printers, see the following:

- [“Creating tags” on page 325](#).
- [“Assigning tags to printers” on page 325](#).

**Enabling Direct Print**

Direct Print is enabled on the Print Management Organizational Settings page.

- 1 From the Print Management web portal, click **Administration > Organizational Settings**.



- 2 Select **Enable direct print**.



### 3 Select whether to use a cost center or a department.

☒ Enable direct print

*Create, edit and delete direct print assignments that specify printers to which a user may print in this organization.*

Create direct print assignments using

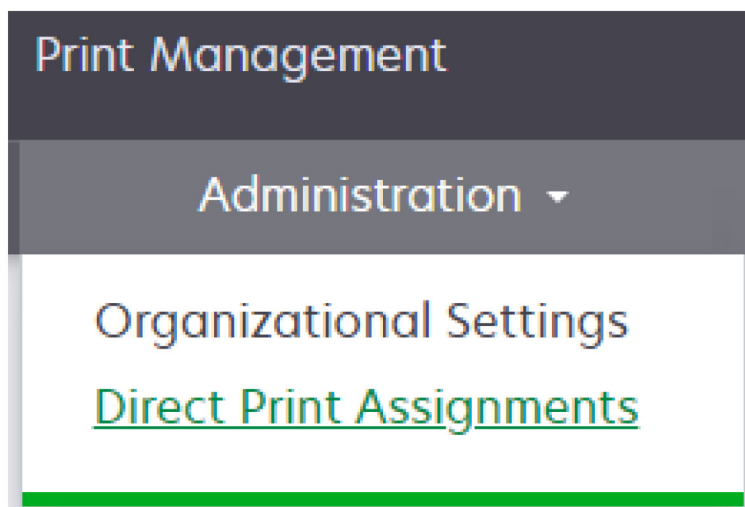
☒ Cost center or personal

☐ Department or personal

#### Notes:

- The Direct Print assignment applies to all members of the designated cost center or department. In either case, Direct Print assignments can also be applied to individual users.
- You must have the Direct Print Release Administrator role to enable Direct Print.
- Users must have the Direct Print Release User role to use Direct Print.
- Cost centers and departments are defined and assigned to users in the Account Management portal.

If Direct Print is enabled, then an additional menu item is available in the Administration menu.





## Creating Direct Print assignments

- 1 From the Print Management web portal, click **Administration > Direct Print Assignments**.
- 2 Depending on your requirement, select the **Cost Center** or **Department** or **Personal** tab, and then click **Create Assignment**.

### Direct Print Assignments

**i** You can download a print client package for a direct print assignment from the Print Clients page.

**Cost Centers**

Personal

## No direct print assignments for cost centers.


A direct print assignment associates tagged printers to all users in a specific cost center.

Create Assignment

**Note:** If there are existing Direct Print assignments, then the Direct Print Assignments page shows them.



## Direct Print Assignments


 You can download a print client package for a direct print assignment from the Print Clients page.

Cost Centers

Personal

 Create Assignment

 Delete Assignment

 Printer Tags ▾

1 total item

<input type="checkbox"/>	Assignment Name	Cost Centers	Printer Tags
<input type="checkbox"/>	<a href="#">Direct Print by Cost Center</a>	CC549	Direct Print

1 total item

View

< **1** >

- 3** In the Create Direct Print Assignment window, do the following:

**Note:** The Direct Print assignment applies to all members of the designated cost center or department. In either case, Direct Print assignments can also be applied to individual users.



- **Cost Center or Department assignments**—Cost center and department assignments are applied to all members of that cost center or department.

Create Direct Print Assignment

Assignment name

Enter a unique name for this direct print assignment

Cost center name

Start typing...

The cost center name must be unique and should match a cost center in Account Management for this organization.

Tags identifying printers this cost center may use for direct printing

Start typing...

+ Add

Find and select a tag from Fleet Management. The number of printers identified by a specific tag can change.

Printers : 0

⚠ To download a client for this assignment from the Print Clients page, it must contain 1 to 10 printers.

Cancel

Create Assignment

**Note:** The Create Assignments forms are the same for cost centers and departments.

- **Assignment name**—Type a unique assignment name.
- **Cost center name or Department name**—Type the name of the cost center or department that will be associated with this assignment. A list of possible matches is shown as characters are entered.

Cost center name

aus

2 results found

⚠ aus

AUS1211

**Notes:**

- The cost center or department chosen must match one in the Account Management portal. If the name entered does not match, the caution symbol is shown before the name.
- You can apply only one cost center or department to a Direct Print assignment.
- A cost center or department can only be associated with one Direct Print Assignment.
- **Tags identifying printers this cost center may use for direct printing**—Printer tags are used to create the connection between a Direct Print Assignment and one or more printers. Type the tag name to



be associated with this assignment. Multiple tags can be associated with a Direct Print assignment. Select a tag name from the list, and then click **Add**.

Tags identifying printers this cost center may use for direct printing

+ Add

*Find and select a tag from Fleet Management. The number of printers identified by a specific tag can change.*

Printers : 5

Mono x

**Notes:**

- You can use only tags that were previously defined in the Fleet Management portal.
  - When a tag is added, tag names and the total number of printers with the added tag names appear.
  - You can associate an assignment to up to ten printers only. While you can save an assignment with more than ten printers, you cannot download a Print Client package associated with that assignment.
- **Personal**—Apply assignments only to specific individuals.

Create Direct Print Assignment ×

Assignment name

E-mail addresses of registered users to be included in this assignment

+ Add


*Find and select an e-mail address.*

Tags identifying printers these users may use for direct printing

+ Add

*Find and select a tag from Fleet Management. The number of printers identified by a specific tag can change.*

Printers : 0

 To download a client for this assignment from the Print Clients page, it must contain 1 to 10 printers.

Cancel Create Assignment



- **Assignment name**—Type a unique assignment name.
- **E-mail addresses of registered users to be included in this assignment**—Type the email address of an individual associated with this assignment. Multiple individuals can be associated with the same Direct Print assignment.

E-mail addresses of registered users to be included in this assignment

[+ Add](#)

*Find and select an e-mail address.*

caretjim@outlook.com x

**Note:** Only users with the Direct Print Release User or Direct Print Release Administrator User role are shown.

- **Tags identifying printers these users may use for direct printing**—Printer tags are used to create the connection between a Direct Print Assignment and one or more printers. Type the tag name to be associated with this assignment. Multiple tags can be associated with a Direct Print assignment. Select a tag name from the list, and then click **Add**.

**Notes:**

- You can use only tags that were previously defined in the Fleet Management portal.
- When a tag is added, tag names and the total number of printers with the added tag names appear.
- You can associate an assignment to up to ten printers only. While you can save an assignment with more than ten printers, you cannot download a Print Client package associated with that assignment.

**4 Click Create Assignment.**

### Download Direct Print Client Package Error

If you include an assignment containing more than ten printers when creating a direct print client package, then client package download fails. The Direct Print assignment that contains more than ten printers must be modified to reduce the number of printers to ten or less. The following error message is displayed when a download fails.

#### Unable to Download Direct Print Client Package

None of the selected assignments contain 1 to 10 printers so they are not eligible for downloading in a client package.

Verify the Direct Print assignments specify the correct printer tags. If the tags are correct, then contact the Fleet Management administrator to verify the tags are assigned to the correct printers.

OK

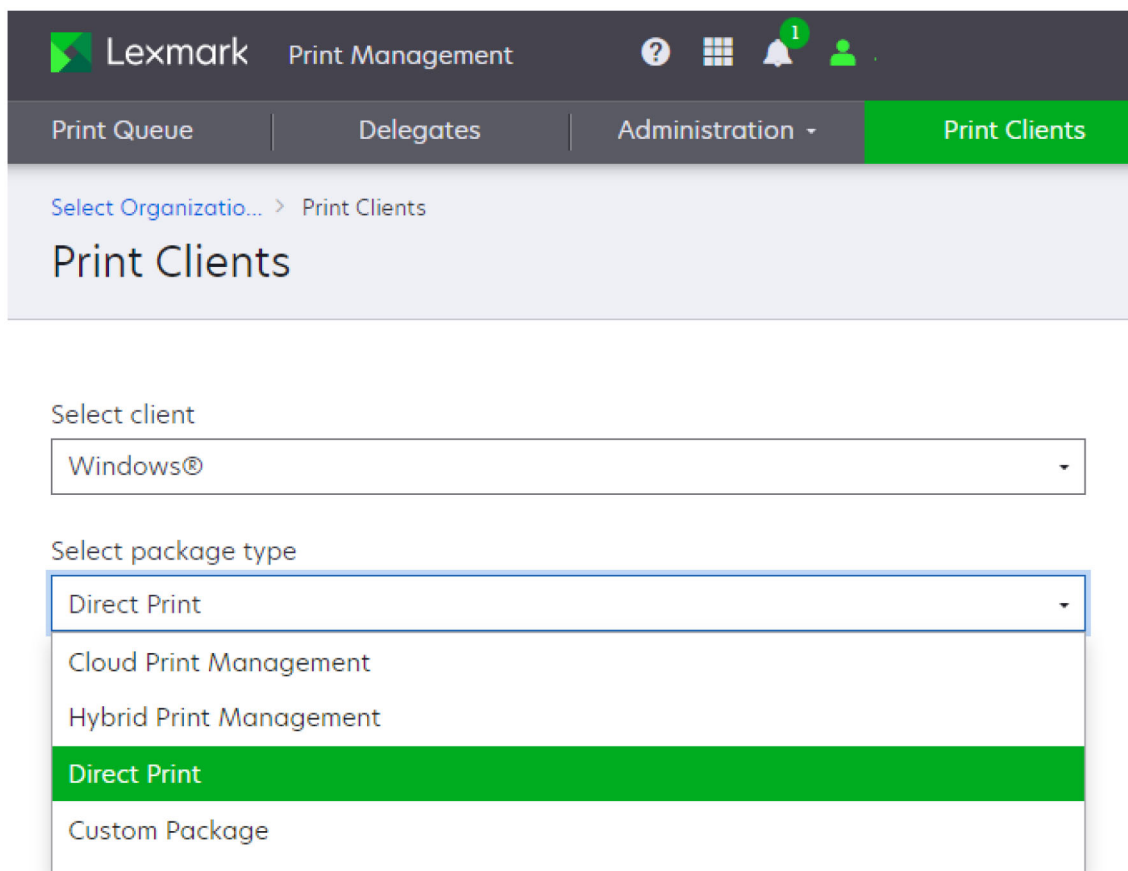


## Using Direct Print clients

To use Direct Print, you must install a Direct Print–capable version of the Lexmark Print Management Client (LPMC) on a user’s workstation.

### Downloading a Direct Print client package

You can download the LPMC configured for Direct Print from the Print Clients tab in the Print Management portal. You can create either a default Direct Print package or a Custom Package.



The screenshot shows the Lexmark Print Management interface. At the top, there's a navigation bar with 'Lexmark Print Management' and several icons. Below it, a tab bar contains 'Print Queue', 'Delegates', 'Administration', and 'Print Clients' (which is active and highlighted in green). The main content area shows a breadcrumb 'Select Organization... > Print Clients' and the title 'Print Clients'. Below this, there are two dropdown menus. The first, 'Select client', has 'Windows®' selected. The second, 'Select package type', is open, showing a list of options: 'Direct Print' (highlighted in green), 'Cloud Print Management', 'Hybrid Print Management', and 'Custom Package'.

- **Direct Print**—Creates an LPMC package that only supports Direct Print.
- **Custom Package**—Allows you to create an LMC package that supports Direct Print along with Cloud Print Management, Hybrid Print Management, or both. For more information on creating a customer client package, see [“Using Cloud Print Management clients” on page 195](#).

#### Notes:

- Direct print is only available for the Windows operating system.
- The minimum LPMC version is 2.3.1145.0.
- The LPMC must be installed with a Direct Print configuration file for Direct Print to be available to the user



Selecting a default Direct Print package

- 1 From the Print management portal, click **Print Clients**.
- 2 In the Print Clients page, do the following:
  - From the Select client menu, select **Windows®**.
  - From the Select Package Type menu, select **Direct Print**.

Select package type

Direct Print

Package contents

- Direct Print  
Version: 2.3.1145.0
- Installer  
Version: 1.0.447
- PCLXL driver  
Version: 3.0.1.0
- Capability to change settings at the printer

Select one or more direct print assignments to include in the package.  
Selected assignments: 0 cost centers, 1 personals

Cost Centers

Personal

1 of 1 items selected

<input checked="" type="checkbox"/>	Assignment Name	E-mail	Printer Tags
<input checked="" type="checkbox"/>	Jim's	caretjim@outlook.com	Local Printer

1 of 1 items selectedView251

Download Client

- 3 Select one or more Direct Print assignments, and then click **Download Client**.
- Note:** The package is a compressed file that must be extracted before installation.



### Creating a custom Direct Print package

You can create a Direct Print package that can include either Cloud Print Management or Hybrid Print Management or both.

- 1 From the Print management portal, click **Print Clients**.
- 2 In the Print Clients page, do the following:
  - From the Select client menu, select **Windows®**.
  - From the Select Package Type menu, select **Custom Package**.

Select package type

Custom Package

Create and then download a custom package that includes:

- Global client settings
- Cloud Print Management and/or Hybrid Print Management and/or Direct Print
- Print driver selection
- Default printer selection

Create Package

- 3 Click **Create Package**.

Select Organization: Caret O... > Print Clients > Create Custom Windows Pa...

## Create Custom Windows Package

- 4 Select any of the following:
  - **Enable Cloud Print Management**
  - **Enable Hybrid Print Management**
  - **Enable Direct Print**



**5** Select one or more Direct Print assignments, and then click **Download Client**.

## Direct Print

☒ Enable Direct Print

Select one or more direct print assignments to include in the package.

*Selected assignments: 0 cost centers, 1 personals*

Cost Centers



Personal

1 of 1 items selected

<input checked="" type="checkbox"/>	Assignment Name	E-mail	Printer Tags
<input checked="" type="checkbox"/>	Jim's	caretjim@outlook.com	Local Printer

1 of 1 items selected

View 25

**Note:** The package is a compressed file that must be extracted before installation.

## Installing Direct Print clients on workstations

After downloading default LPMC client applications, from the Client Download page, you can install them on workstations. For custom packages, you must extract the downloaded file before installing them.

For more information on the LPMC, see [“Installing the Lexmark Print Management Client” on page 368](#).

## Printing with Direct Print

You can submit print jobs by clicking **File >Print** from desktop applications, and then selecting a Direct Print queue. Using Direct Print to submit jobs is supported in desktops only, not in mobile devices.

## Using a secure login code

### Using a secure login

User logins can be handled in various ways with Cloud Print Management. One method is the use of a secure login code, a one-time authentication code that lets users log in to a cloud-enabled printer. Secure login can be used when the badge or PIN login method is not configured, or the user does not have a badge or PIN available. A new secure login code must be obtained from Lexmark Cloud Services each time a user logs into a cloud-enabled printer.

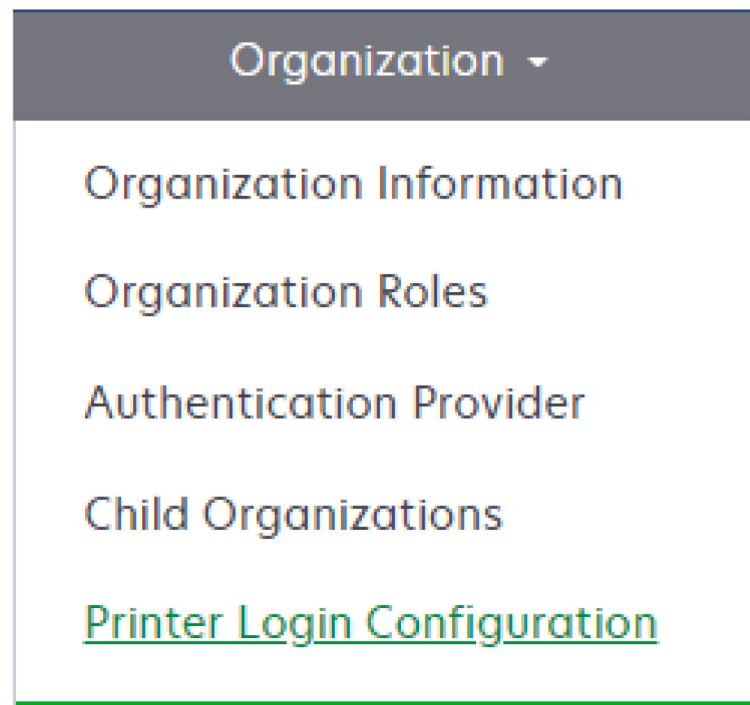
#### Notes:

- The secure is valid for 15 minutes.
- Secure login code is available when identity federation is used.
- A secure login code can be obtained from the Lexmark Cloud Services Print Management web portal and from the Lexmark Print application on iOS or the Android devices.



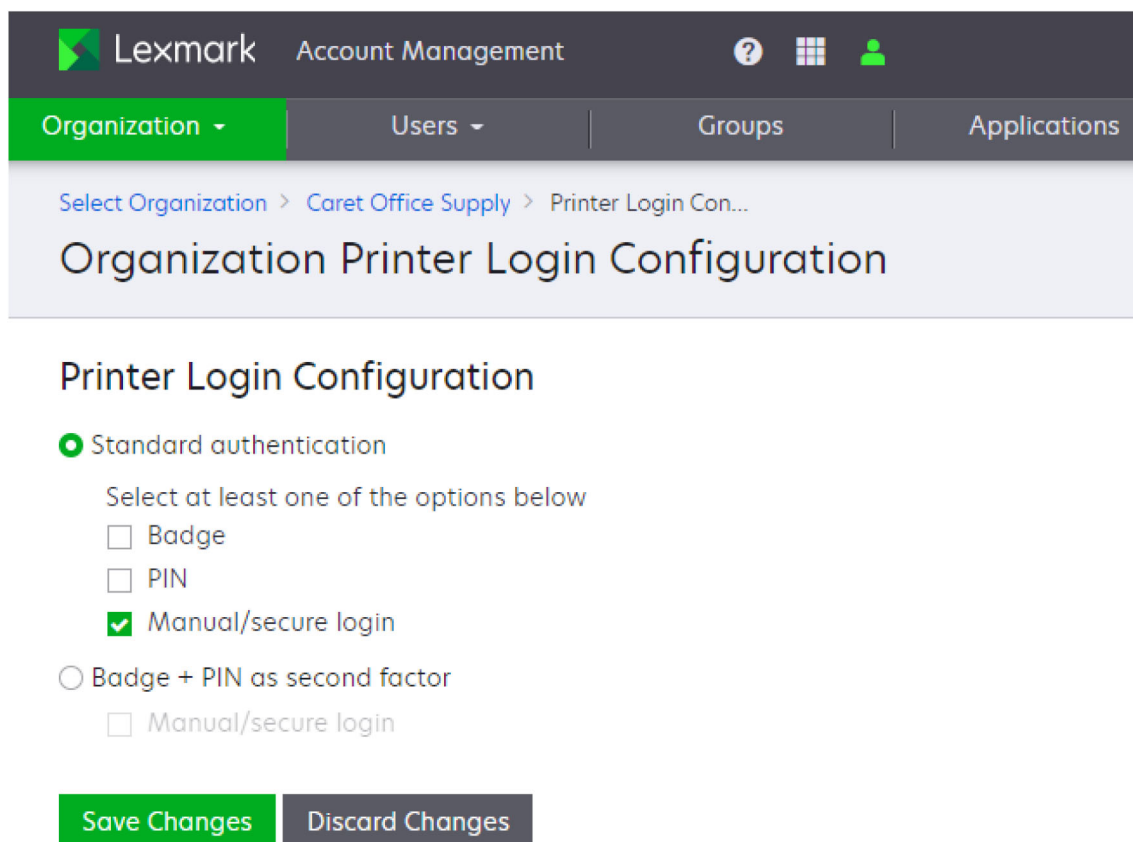
## Setting up secure login

- 1 From the Account Management portal, click **Organization** > **Printer Login Configuration**.





- 2 In the Printer Login Configuration page, select **Standard authentication** > **Manual/secure login**. For more information, see [“Configuring printer login” on page 284](#).



Lexmark Account Management

Organization Users Groups Applications

Select Organization > Caret Office Supply > Printer Login Con...

## Organization Printer Login Configuration

### Printer Login Configuration

☒ Standard authentication

Select at least one of the options below

☐ Badge

☐ PIN

☒ Manual/secure login

☐ Badge + PIN as second factor

☐ Manual/secure login

Save Changes Discard Changes

- 3 Click **Save Changes**.

## Obtaining a secure login code

You can obtain a secure login code in the following ways:

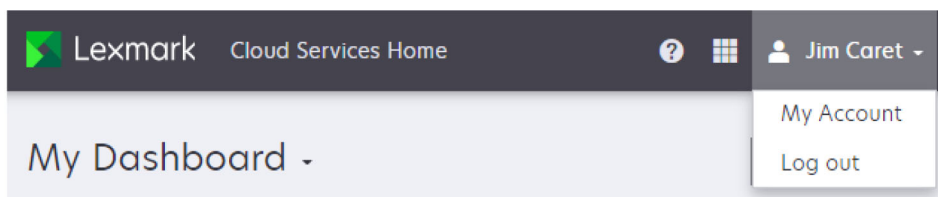
- From the My Account page in the Lexmark Cloud Services portal
- From the Lexmark Print application on a mobile device.
- From the web address: **https://us.iss.lexmark.com/device** for North America, and **https://eu.iss.lexmark.com/device** for Europe.

User's Data Center	Value for <env>
European	eu
North American	us

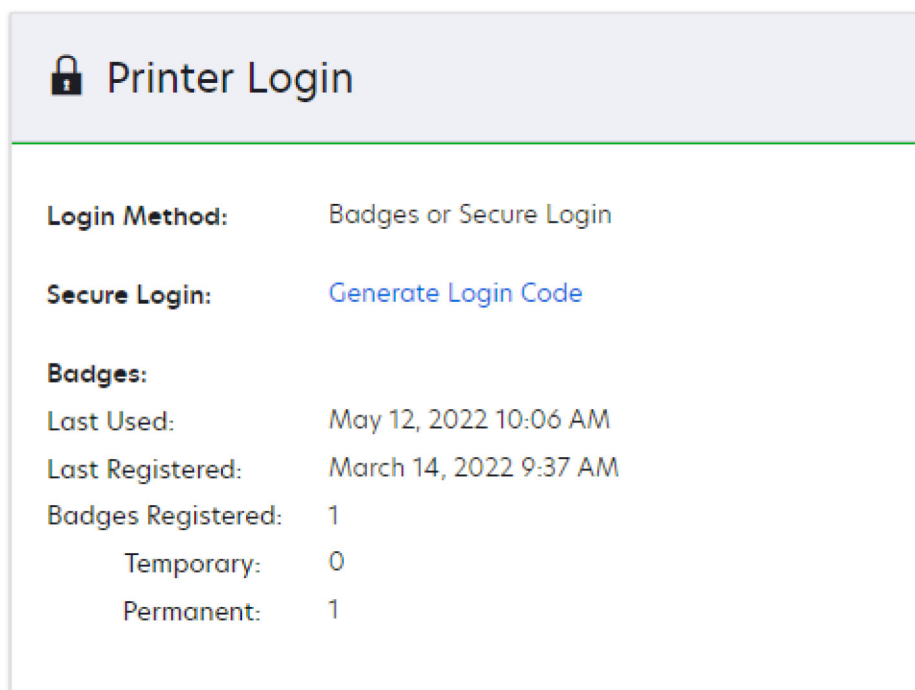


**From the My Account page**

- 1 From the Lexmark Cloud Services portal, click your account name, and then click **My Account**.

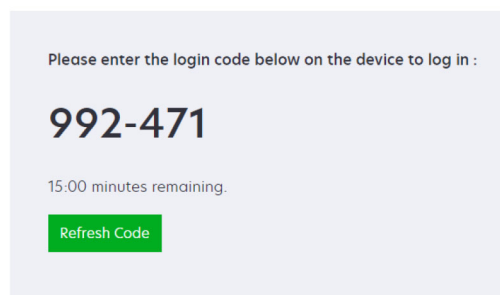


- 2 In the Printer Login section, click **Generate Login Code**.



- 3 Use the secure login code shown to login to a cloud-enabled printer.

Generate Login Code

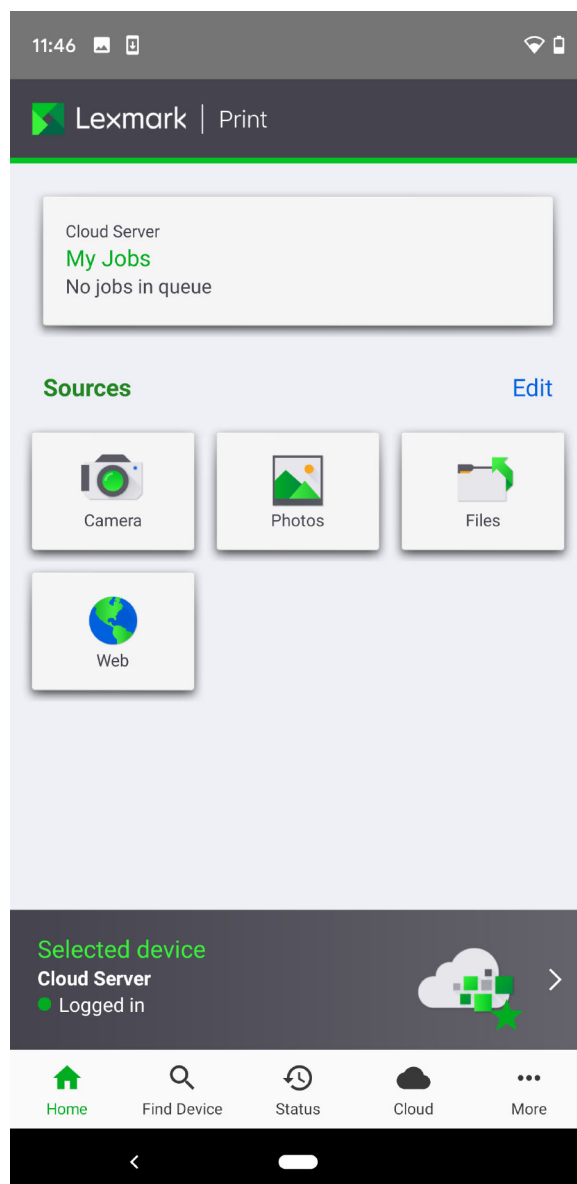


**Note:** A secure login code is only valid for 15 minutes. After 15 minutes, you can obtain a new code by clicking **Refresh Code**.

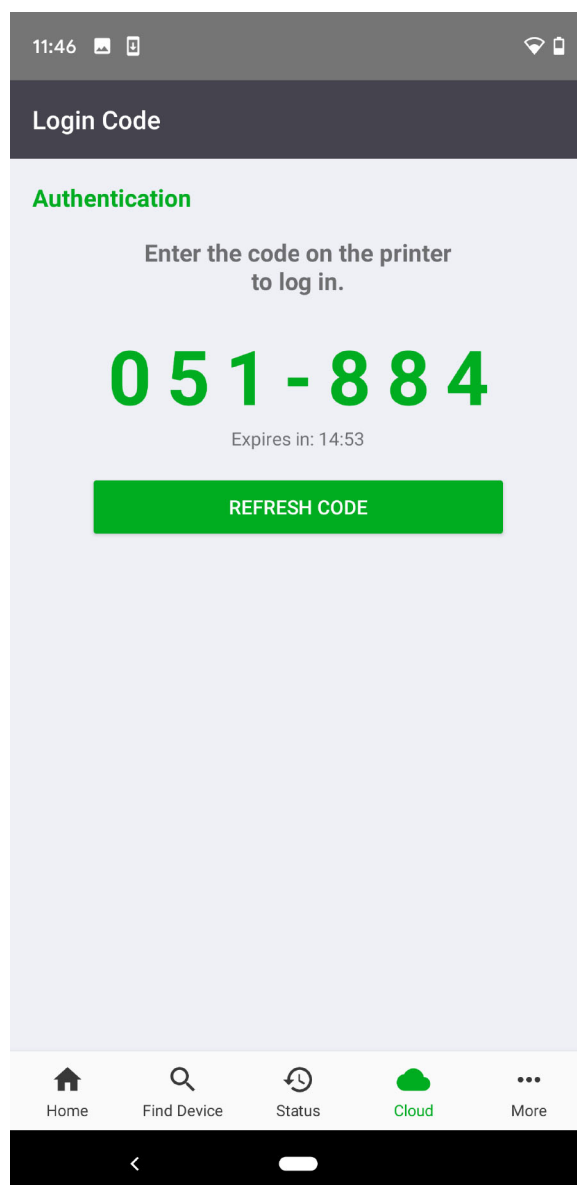


### From the Lexmark Print application

- 1 Open the Lexmark Print application on a mobile device.
- 2 Log in to the Lexmark Cloud Services portal.
- 3 Touch the **Cloud** icon at the bottom of the screen.





**Notes:**

- A secure login code will be shown.
- A secure login code is only valid for 15 minutes. After 15 minutes, you can obtain a new code by clicking **Refresh Code**.

**From the web address**

- 1 Open a web browser.
- 2 Go to: **`https://<env>.iss.lexmark.com/device`**.

User's Data Center	Value for <env>
European	eu
North American	us



**Note:** To determine the value of **<env>**, see the address on the browser address field when you log in to your Lexmark Cloud Services portal.

- 3 Use the secure login code shown to login to a cloud-enabled printer.

**Note:** A secure login code is only valid for 15 minutes. After 15 minutes, you can obtain a new code by clicking **Refresh Code**.

Generate Login Code

Please enter the login code below on the device to log in :

**992-471**

15:00 minutes remaining.

Refresh Code

## Using a secure login code

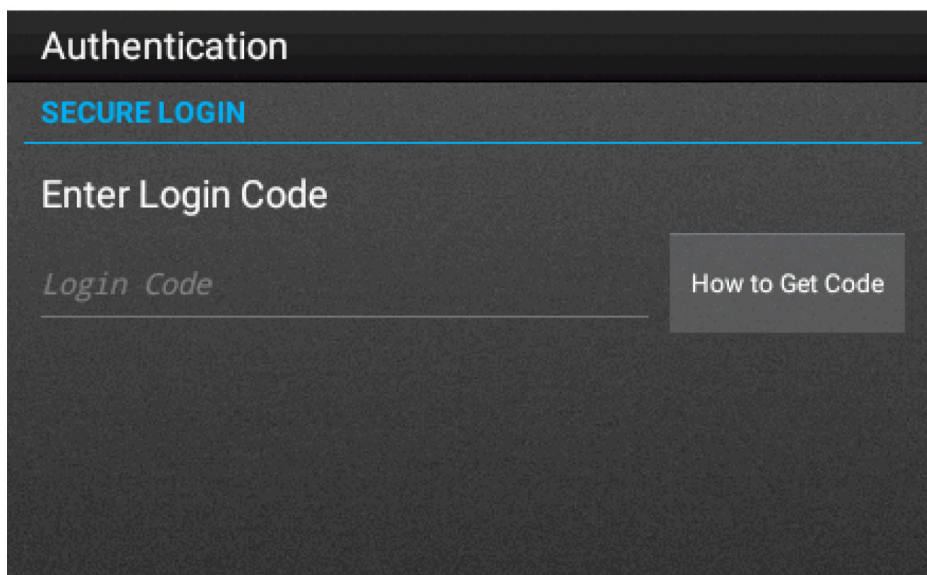
When secure login is enabled for an organization, the Secure Login icon will appear on the control panel.

- 1 From the printer home screen, touch **Secure Login**.

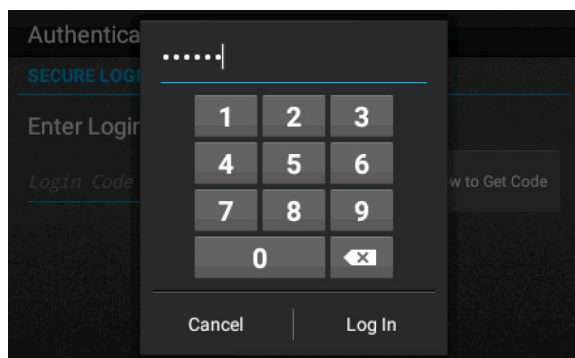




- 2 Touch the **Login Code** prompt.

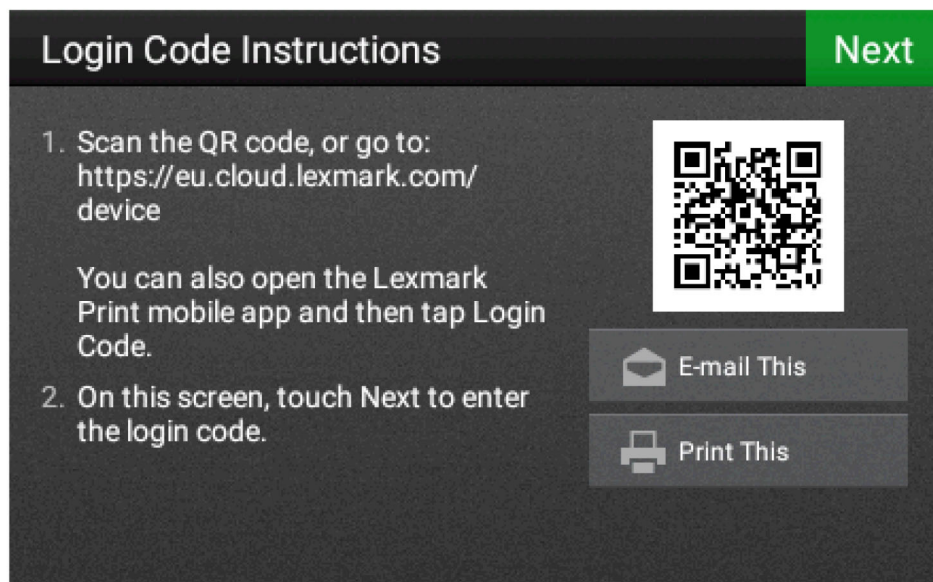


- 3 Enter the secure login code, and then touch **Log In**.





**Note:** For more information on obtaining secure login code, either touch **How to Get Code** on the control panel or see [“Obtaining a secure login code” on page 214](#).



## Using notification policies

### Notification policies overview

Notification policies are a Fleet Management feature that lets the Fleet Management Administrator send email notifications when certain conditions occur. You can set the policies to send emails when toner is low or when a printer fails to communicate with Lexmark Cloud Services. Notification policies are available for:

- Supplies
- Printer Information

#### Supplies policies

Generates an email when the toner level threshold has been met or exceeded. Multiple supplies policies can be created with different threshold settings to provide notifications as supplies are depleted.

Supplies policies are available for:

- Toner
- Maintenance Kit
- Fuser
- Photoconductors
- Waste Toner Bottle
- Transfer Module

#### Printer Information policies

Generates an email when a printer fails to communicate or report its data to Lexmark Cloud Services after the interval threshold has been met or exceeded.



Printer Information policies are available for:

- Last data refreshed
- Last communicated

The following is an example of an email generated by a Notification Policy.

7559040000075 [Caret Office Supply] : Toner Level Notification - Cyan



Lexmark

## Toner Level Notification - Cyan

Lexmark Cloud Services

Notification details:

=====

Asset tag:

Location:

Contact name:

Additional information:

Organization: Caret Office Supply

Problem: Toner Level

Notify at: Toner below or equal to 55 %

Status description:

Printer S/N: 7559040000075

Printer model: CX922de

IP address: 10.184.81.250

Supply S/N: LEX00017003030013007049002255

Supply type: Cyan

Supply level: 44 %

## Creating a Notification Policy

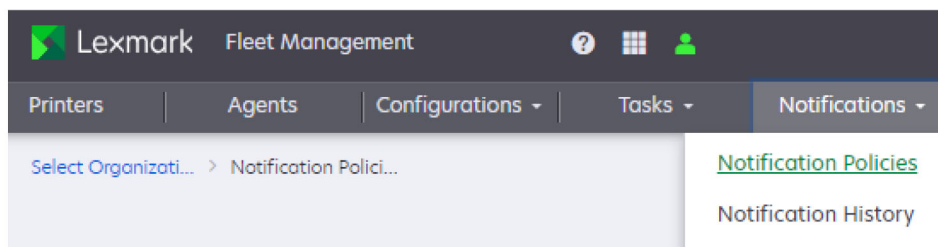
### Creating a supplies policy

Supplies policies notify users by email when the toner level of their printers reaches a specified percentage.



**Note:** You can create up to 50 supplies policies for an organization.

- 1 From the Fleet Management web portal, click **Notifications** > **Notification Policies**.



- 2 Click the **Supplies** tab.

**Note:** If there are existing supplies policies, then the Notification Policies page shows them.

- 3 On the Notification Policies page, click **Create**.

- 4 Configure the following:

### Create Notification Policy

Policy name

Policy type

Applies to

☒ All printers in this organization

☐ Only printers with specific tags

Notify the following e-mail addresses when the conditions of this policy are met

Additional information to include in the e-mail notification (Optional)

☐ Include notification data in a .json file as an attachment

*NOTE: There can be up to a 30 minutes delay before the policy takes effect.*

- In the Policy name field, type the name of the policy.

The following characters are not allowed in a Policy Name:

- < >
- &
- #
- ?
- `



- ~
- !
- %
- ^
- \*
- |
- +
- =
- ;
- ;
- "
- { }
- [ ]
- \ /

- In the Policy type menu, select a supplies option.
- In the “Notify when toner remaining is at” section, set the percentage at which the notification is sent.
- In the Applies To section, select either of the following:
  - **All printers in this organization**—Apply the policy to all printers in the organization.

Applies to

- ☒ All printers in this organization
- ☐ Only printers with specific tags

- **Only printers with specific tags**—Apply the policy to specific printers based on the tags entered. For more information on tags, see [“Creating tags” on page 325](#) and [“Assigning tags to printers” on page 325](#).

Applies to

- ☐ All printers in this organization
- ☒ Only printers with specific tags

Apply the policy to printers with the following tags

Enter a tag

+ Add

- In the “Apply the policy to printers with the following tags” field, type the tags, and then click **Add**.
- **Note:** You can apply up to 10 tags to a policy.
- In the “Notify the following e-mail addresses when the conditions of this policy are met” field, type the recipient email addresses, and then click **Add**.

Notify the following e-mail addresses when the conditions of this policy are met

Enter an e-mail address

+ Add



**Notes:**

- You can type up to 10 email addresses.
- Make sure that the email address is valid.
- You can type an email address from outside your organization.
- In the “Additional information to include in the e-mail notification (Optional)” field, type any information that you want to appear in the email body. For example, printer location or special access instructions.

Additional information to include in the e-mail notification (Optional)

A large empty rectangular text box with a thin black border, intended for additional information to include in the e-mail notification. A small cursor icon is visible in the bottom right corner.

- Select **Include notification data in a .json file as an attachment** to attach a JSON file of the data associated with the notification.

☒ Include notification data in a .json file as an attachment



The following is an example of an email notification.

### 7559040000075 [Caret Office Supply] : Toner Level Notification - Cyan



## Toner Level Notification - Cyan

Lexmark Cloud Services

Notification details:

=====

Asset tag:

Location:

Contact name:

Additional information:

Organization:                      Caret Office Supply

Problem:                              Toner Level

Notify at:                            Toner below or equal to 55 %

Status description:

Printer S/N:                         7559040000075

Printer model:                      CX922de

IP address:                         10.184.81.250

Supply S/N:                         LEX00017003030013007049002255

Supply type:                        Cyan

Supply level:                       44 %



The following is an example of notification data in JSON format.

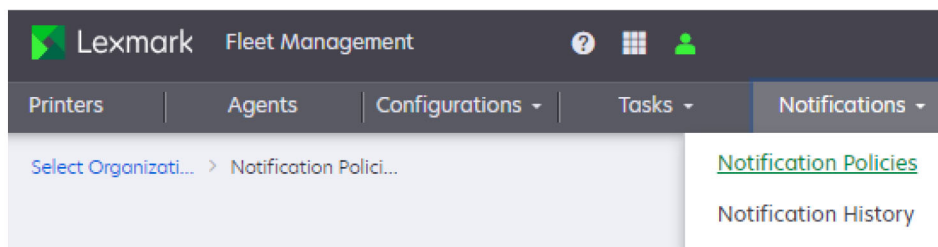
```
{
  "assetTag": "",
  "location": "",
  "contactName": "",
  "additionalInfo": "",
  "policyType": "Toner Level",
  "notificationThreshold": 55,
  "statusDescription": "",
  "assetSerialNumber": "7559040000075",
  "assetModel": "CX922de",
  "assetIpAddress": "10.184.81.250",
  "supplySerialNumber": "LEX00017003030013007049002255",
  "color": "Cyan",
  "supplyLevel": 44,
  "supplyName": "Cyan Cartridge",
  "organization": "Caret Office Supply"
}
```

## Creating a printer information policy

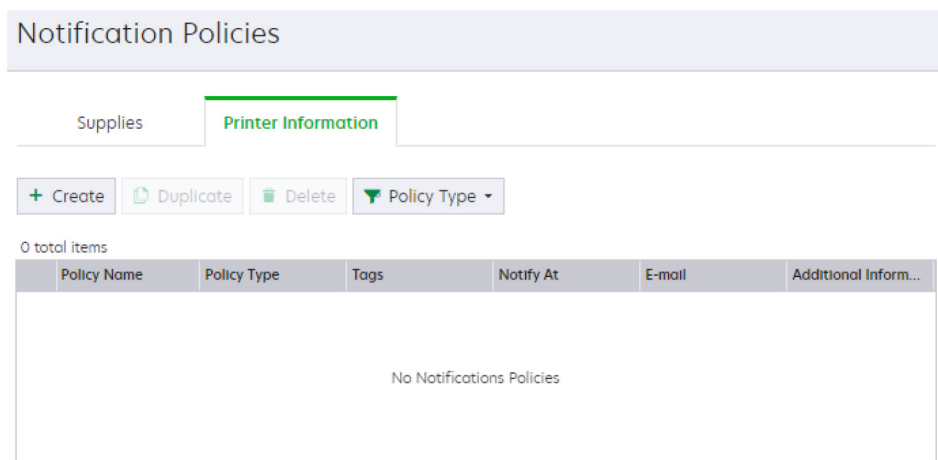
Printer information policies notify users by email when a printer fails to communicate with or report its data to Lexmark Cloud Services. Emails are sent after a specified time has elapsed.

**Note:** You can create up to 50 policies.

- 1 From the Fleet Management web portal, click **Notifications** > **Notification Policies**.



- 2 Click **Printer Information** tab.



**Note:** If there are existing printer information policies, then the Notification Policies page shows them.



**3** On the Notification Policies page, click **Create**.

**4** Configure the following:

Create Notification Policy

Policy name

Policy type

▼

Applies to

☒ All printers in this organization

☐ Only printers with specific tags

Notify the following e-mail addresses when the conditions of this policy are met

+ Add

Additional information to include in the e-mail notification (Optional)

/

☐ Include notification data in a .csv file as an attachment

Create Policy

Cancel

- In the Policy name field, type the name of the policy.

The following characters are not allowed in a Policy Name:

- < >
- &
- #
- ?
- `
- ~
- !
- %
- ^
- \*
- |
- +
- =
- ;
- :
- "



- { }
- [ ]
- \ /
- In the Policy type menu, select either of the following:
  - **Last data refresh**—Send an email notification based on the number of days since the last update of printer information or counters.
    - Set the “Notify when data has not been refreshed after” value to the number of days that must elapse before an email notification is sent.

Notify when data has not been refreshed after

–	3	+	days
---	---	---	------

1 - 7 days

- **Last communicated**—Send an email notification based on the number of days since the printer last communicated with Lexmark Cloud Services.
  - Set the “Notify when a printer has not communicated for” value to the number of days that must elapse before an email notification is sent.

Notify when a printer has not communicated for

–	3	+	days
---	---	---	------

1 - 7 days

e-mail

- In the Applies To section, select either of the following:
  - **All printers in this organization**—Apply the policy to all printers in the organization.

Applies to

☒ All printers in this organization

☐ Only printers with specific tags

- **Only printers with specific tags**—Apply the policy to specific printers based upon the tags entered. For more information on tags, see [“Creating tags” on page 325](#) and [“Assigning tags to printers” on page 325](#).

Applies to

☐ All printers in this organization

☒ Only printers with specific tags

Apply the policy to printers with the following tags

Enter a tag	+ Add
-------------	-------



- In the “Apply the policy to printers with the following tags” field, type the tags, and then click **Add**.

**Note:** You can apply up to 10 tags to a policy.

- In the “Notify the following e-mail addresses when the conditions of this policy are met” field, type the recipient email addresses, and then click **Add**.

Notify the following e-mail addresses when the conditions of this policy are met

Enter an e-mail address	+ Add
-------------------------	-------

**Notes:**

- You can type a maximum of 10 email addresses.
- Make sure that the email address is valid.
- You can type an email address from outside your organization.
- In the “Additional information to include in the e-mail notification (Optional)” field, type any information that you want to appear in the email body. For example, printer location or special access instructions.

Additional information to include in the e-mail notification (Optional)

--


- Select **Include notification data in a .csv file as an attachment** to attach a CSV file of the data associated with the notification.


☒ Include notification data in a .csv file as an attachment



The following is an example of a notification email for last data refresh:

# [Caret Office Supply] : Data Not Refreshed

 NotificationDetails\_No Printe...  
1 KB

 Lexmark

Data Not Refreshed

Lexmark Cloud Services

DAILY STATUS REPORT - 2023/02/20 01:00 UTC

4 printers have not refreshed their data with Lexmark Cloud Services for at least 3 days.

Organization:

Caret Office Supply

Policy name:

No Printer Data


Additional information:


Printers	Asset Tag	Location	Last Communicated	Last Data Refresh
10.184.92.74	7529827140GDN		2022/06/27 22:05 UTC	2022/06/27 22:05 UTC
Lexmark CX625adhe				
10.184.128.113				
7464811020036	Lexmark MX722ade		2022/01/04 14:06 UTC	2022/01/14 01:04 UTC
Lexmark MX722ade				
10.199.109.186				
74634799062M1	Lexmark MX710		2022/09/23 08:51 UTC	2022/09/23 08:51 UTC
Lexmark MX710				
10.199.111.73				
74658250201HB	Lexmark MX822ade		2022/11/21 08:44 UTC	2022/11/21 08:44 UTC
Lexmark MX822ade				
Lexmark MX822ade				



The following is an example of a notification email for last communicated:

## [Caret Office Supply] : Printer Not Communicating

 NotificationDetails\_3-day No...  
1 KB

 **Lexmark**

**Printer Not Communicating**  
Lexmark Cloud Services

DAILY STATUS REPORT - 2023/02/20 01:00 UTC

3 printers have not communicated with Lexmark Cloud Services for at least 3 days.

Organization: Caret Office Supply  
Policy name: 3-day No Communications  
Additional information:

Printers	Asset Tag	Location	Last Communicated	Last Data Refresh
<b>10.184.128.113</b>				
7464811020036			2022/01/04 14:06 UTC	2022/01/14 01:04 UTC
Lexmark MX722ade				
<b>10.199.109.186</b>				
74634799062M1			2022/09/23 08:51 UTC	2022/09/23 08:51 UTC
Lexmark MX710				
<b>10.199.111.73</b>				
74658250201HB			2022/11/21 08:44 UTC	2022/11/21 08:44 UTC
Lexmark MX822ade				

The following is an example of the notification data in CSV format:

	A	B	C	D	E	F	G	H	I	J	K	L
1	IP_ADDRESS	SERIAL_NUMBER	MODEL	ASSET_TAG	LOCATION	LAST_COMMUNICATED	LAST_REFRESH	NOTIFICATION_TYPE	NOTIFICATION_THRESHOLD	ORGANIZATION	POLICY_NAME	
2	10.184.92.74	7529827140GDN	Lexmark CX625adhe			2022/06/27 22:05 UTC	2022/06/27 22:05 UTC	Last Data Refresh		3 Caret Office Suppl	No Printer Data	
3	10.184.128.113	7464811020036	Lexmark MX722ade			2022/01/04 14:06 UTC	2022/01/14 01:04 UTC	Last Data Refresh		3 Caret Office Suppl	No Printer Data	
4	10.199.109.186	74634799062M1	Lexmark MX710			2022/09/23 08:51 UTC	2022/09/23 08:51 UTC	Last Data Refresh		3 Caret Office Suppl	No Printer Data	
5	10.199.111.73	74658250201HB	Lexmark MX822ade			2022/11/21 08:44 UTC	2022/11/21 08:44 UTC	Last Data Refresh		3 Caret Office Suppl	No Printer Data	

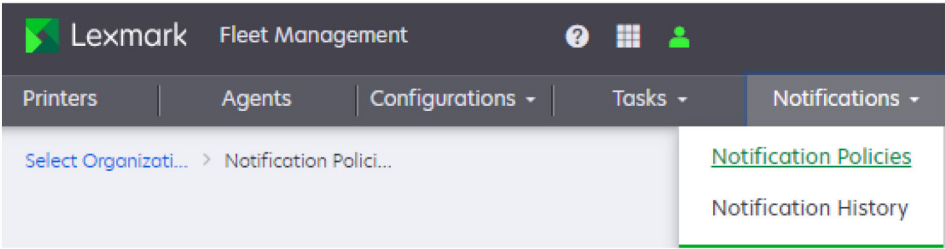


# Managing notification policies

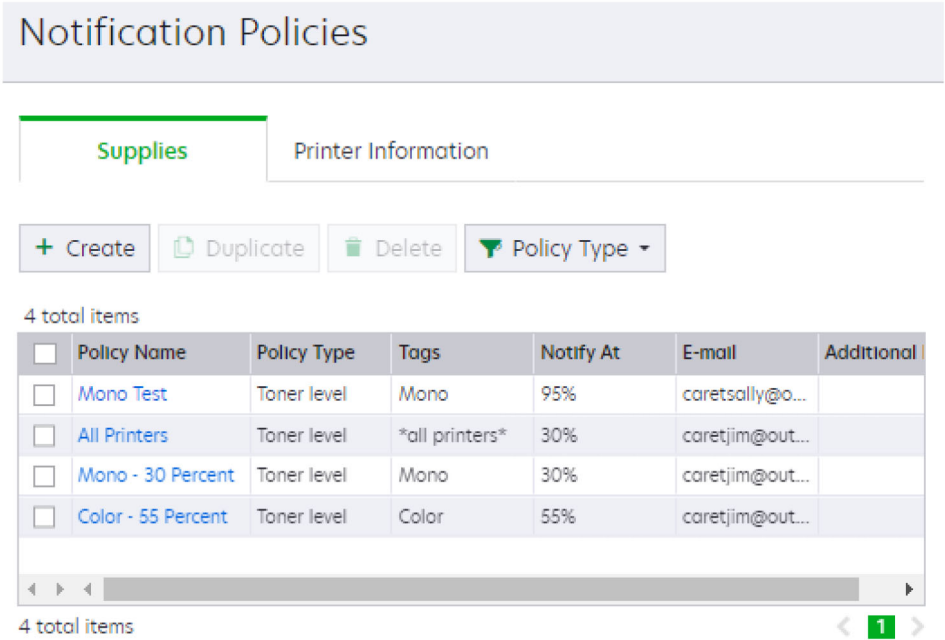
## Modifying a notification policy

You can modify notification policies at any time.

- 1 From the Fleet Management web portal, click **Notifications** > **Notification Policies**.



- 2 Select the **Supplies** or **Printer Information** tab.
- 3 Click the name of the policy that you want to modify.





**4** Modify the policy, and then click **Save Changes**.

## Mono Test

Policy name

Mono Test

Policy type

Toner level ▾

Notify when toner remaining is at

- 95 + %

Range: 0 to 100

Applies to

☐ All printers in this organization☒ Only printers with specific tags

Apply the policy to printers with the following tags

Mono x

Enter a tag

+ Add

Notify the following e-mail addresses when the conditions of this policy are met

caretsally@outlook.com x

Enter an e-mail address

+ Add

Additional information to include in the e-mail notification (Optional)

☐ Include notification data in a .json file as an attachment*NOTE: There can be up to a 30 minutes delay before the policy takes effect.*

Save Changes

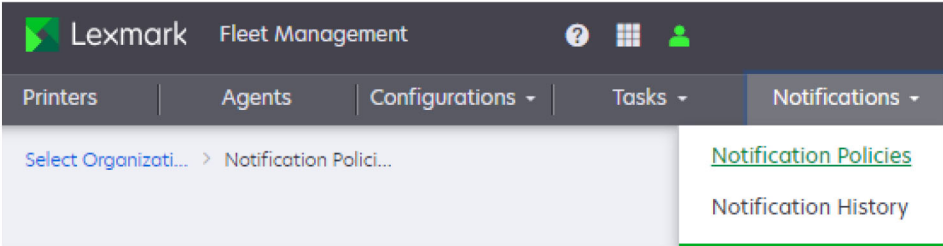
Cancel



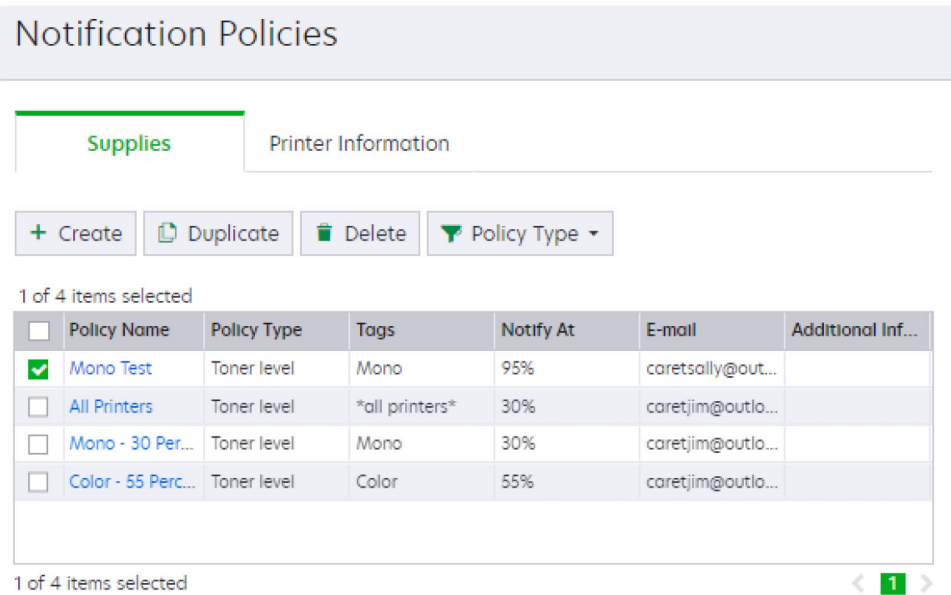
### Duplicating a notification policy

You can duplicate notification policies to create additional policies.

- 1 From the Fleet Management web portal, click **Notifications** > **Notification Policies**.



- 2 Select the **Supplies** or **Printer Information** tab.
- 3 Select an existing policy, and then click **Duplicate**.





- 4 Type a new policy name, and then modify the details as required.

Select Organization... > Notification Policies > Create Notification ...

## Create Notification Policy

Policy name

Policy type

Toner level

Notify when toner remaining is at

– 95 + %

Range: 0 to 100

Applies to

☐ All printers in this organization

☒ Only printers with specific tags

Apply the policy to printers with the following tags

Mono x

Enter a tag

+ Add

Notify the following e-mail addresses when the conditions of this policy are met

caretsally@outlook.com x

Enter an e-mail address

+ Add

Additional information to include in the e-mail notification (Optional)

☐ Include notification data in a .json file as an attachment

*NOTE: There can be up to a 30 minutes delay before the policy takes effect.*

Create Policy Cancel

**Notes:**

- When duplicating a policy, the Create Notification Policy page is prefilled with information from the policy that you are duplicating.
- Make sure that the new policy has a unique name.

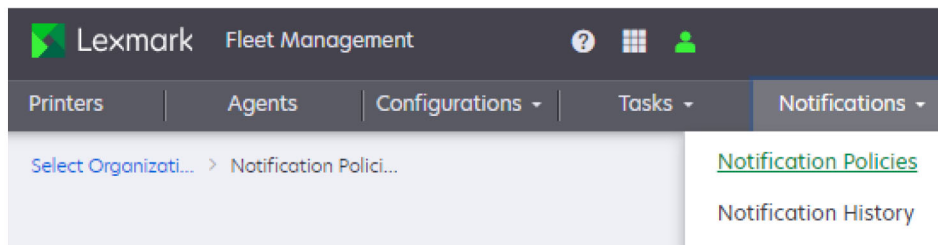
- 5 Click **Create Policy**.



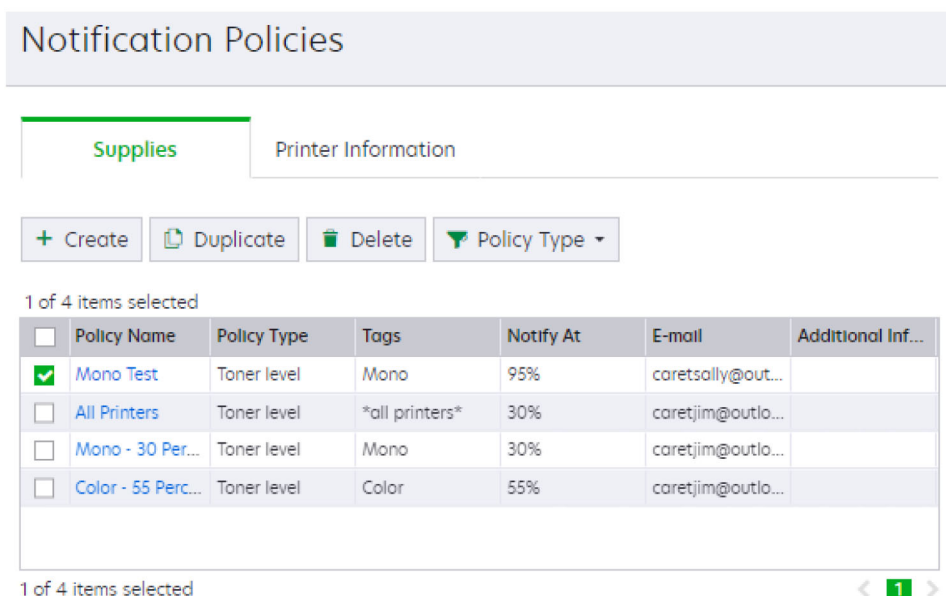
## Deleting a notification policy

You can delete notification policies that are no longer needed.

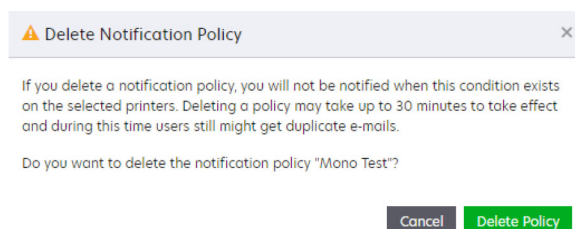
- 1 From the Fleet Management web portal, click **Notifications** > **Notification Policies**.



- 2 Select the **Supplies** or **Printer Information** tab.
- 3 Select one or more policies, and then click **Delete**.



- 4 Click **Delete Policy**.









- Printer Information notification

Select Organization: Caret Office Supply &gt; Notification History

## Notification History (Last 30 Days)

Supplies

Printer Information

▼ Policy Type ▼

▼ Model ▼

Search serial numbe... x



24 total items

Date	Policy Type	Printer Serial N...	Model	Asset Tag	E-mail	Notify At	Last Commun...	Last Data Refr...
2/19/2023, 8:00:12 PM	Last data refresh	74658250201HB	Lexmark MX822...		caretjim@outloo...	3 days	11/21/2022, 3:4...	11/21/2022, 3:4...
2/19/2023, 8:00:12 PM	Last data refresh	74634799062M1	Lexmark MX710		caretjim@outloo...	3 days	9/23/2022, 4:51...	9/23/2022, 4:51...
2/19/2023, 8:00:12 PM	Last data refresh	7464811020036	Lexmark MX722...		caretjim@outloo...	3 days	1/4/2022, 9:06...	1/13/2022, 8:04...
2/19/2023, 8:00:12 PM	Last data refresh	7529827140CDN	Lexmark CX625...		caretjim@outloo...	3 days	6/27/2022, 6:05...	6/27/2022, 6:05...
2/19/2023, 8:00:12 PM	Last communica...	7529827140CDN	Lexmark CX625...		caretjim@outloo...	3 days	6/27/2022, 6:05...	6/27/2022, 6:05...
2/19/2023, 8:00:12 PM	Last communica...	74658250201HB	Lexmark MX822...		caretjim@outloo...	3 days	11/21/2022, 3:4...	11/21/2022, 3:4...
2/19/2023, 8:00:12 PM	Last communica...	74634799062M1	Lexmark MX710		caretjim@outloo...	3 days	9/23/2022, 4:51...	9/23/2022, 4:51...
2/19/2023, 8:00:12 PM	Last communica...	7464811020036	Lexmark MX722...		caretjim@outloo...	3 days	1/4/2022, 9:06...	1/13/2022, 8:04...
2/18/2023, 8:00:07 PM	Last data refresh	74658250201HB	Lexmark MX822...		caretjim@outloo...	3 days	11/21/2022, 3:4...	11/21/2022, 3:4...
2/18/2023, 8:00:07 PM	Last data refresh	74634799062M1	Lexmark MX710		caretjim@outloo...	3 days	9/23/2022, 4:51...	9/23/2022, 4:51...
2/18/2023, 8:00:07 PM	Last communica...	7529827140CDN	Lexmark CX625...		caretjim@outloo...	3 days	6/27/2022, 6:05...	6/27/2022, 6:05...
2/18/2023, 8:00:07 PM	Last data refresh	7464811020036	Lexmark MX722...		caretjim@outloo...	3 days	1/4/2022, 9:06...	1/13/2022, 8:04...
2/18/2023, 8:00:07 PM	Last data refresh	7529827140CDN	Lexmark CX625...		caretjim@outloo...	3 days	6/27/2022, 6:05...	6/27/2022, 6:05...
2/18/2023, 8:00:07 PM	Last communica...	74658250201HB	Lexmark MX822...		caretjim@outloo...	3 days	11/21/2022, 3:4...	11/21/2022, 3:4...
2/18/2023, 8:00:07 PM	Last communica...	74634799062M1	Lexmark MX710		caretjim@outloo...	3 days	9/23/2022, 4:51...	9/23/2022, 4:51...
2/18/2023, 8:00:07 PM	Last communica...	7464811020036	Lexmark MX722...		caretjim@outloo...	3 days	1/4/2022, 9:06...	1/13/2022, 8:04...
2/17/2023, 8:00:07 PM	Last communica...	7529827140CDN	Lexmark CX625...		caretjim@outloo...	3 days	6/27/2022, 6:05...	6/27/2022, 6:05...
2/17/2023, 8:00:07 PM	Last data refresh	74658250201HB	Lexmark MX822...		caretjim@outloo...	3 days	11/21/2022, 3:4...	11/21/2022, 3:4...
2/17/2023, 8:00:07 PM	Last data refresh	74634799062M1	Lexmark MX710		caretjim@outloo...	3 days	9/23/2022, 4:51...	9/23/2022, 4:51...
2/17/2023, 8:00:07 PM	Last data refresh	7464811020036	Lexmark MX722...		caretjim@outloo...	3 days	1/4/2022, 9:06...	1/13/2022, 8:04...
2/17/2023, 8:00:07 PM	Last data refresh	7529827140CDN	Lexmark CX625...		caretjim@outloo...	3 days	6/27/2022, 6:05...	6/27/2022, 6:05...
2/17/2023, 8:00:07 PM	Last communica...	74658250201HB	Lexmark MX822...		caretjim@outloo...	3 days	11/21/2022, 3:4...	11/21/2022, 3:4...
2/17/2023, 8:00:07 PM	Last communica...	74634799062M1	Lexmark MX710		caretjim@outloo...	3 days	9/23/2022, 4:51...	9/23/2022, 4:51...
2/17/2023, 8:00:07 PM	Last communica...	7464811020036	Lexmark MX722...		caretjim@outloo...	3 days	1/4/2022, 9:06...	1/13/2022, 8:04...

24 total items

&lt; 1 &gt;



# Account Management

## Overview

Use the Account Management web portal to create organizations, and to organize and manage the users and the features that they are permitted to access. The web portal also lets you register and manage badges, passwords, and PINs for nonfederated organizations. For an organization that is federated to a separate identity provider, the web portal lets you configure an authentication provider.

Using the Account Management web portal, you can create and manage the following:

- **Organization**—Represents the overall account for a specific customer. Some features of the Lexmark Cloud Services website can be managed at the organizational level. Only a partner administrator can create an organization. An organization administrator must be assigned to manage the organization and its users.
- **Group**—A collection of users that can be managed with a common set of roles or permissions.
- **Child Organization Access Group**—A group that can be used to manage an organization that has multiple child organizations. Members of this group have access to all child organizations based on the roles assigned to the group.
- **User**—An individual who has access to the Lexmark Cloud Services website. Permissions differ among roles, such as between an ordinary user and an organization administrator with full administrative privileges. Each user is a member of a specific organization. A user can also be a member of one or more groups.

Access to the features of the website is managed through the assignment of roles or permissions. Roles can be assigned at the organization, group, or individual user level. The organization administrator is responsible for determining which roles to assign and at what level. For more information on the roles, see [“Understanding roles” on page 240](#).

## Understanding Lexmark Cloud Services users

- **Partner administrators**—They are responsible for setting up the customer environment. Partner administrators can create organizations that represent specific customers.

Partner administrators can do the following:

- Create customer organizations.
- Delete customer organizations.
- Generate reports.

- **Organization administrators**—They are responsible for managing printers and user access to Lexmark Cloud Services. Most employees with this role have technical knowledge, such as system administrators or IT professionals.

Organization administrators can do the following:

- Manage the organization and its users.
- Manage user roles within the organization.
- Manage the printers within the organization.
- Configure authentication providers.
- Set the organization password requirements.
- Configure the printer login.
- Manage configurations.
- Generate reports.




- **Users**—They can access Lexmark Cloud Services and use the Print Management and Analytics web portal features. These users do not have administrative privileges.

## Accessing the Account Management web portal

Open a web browser, access the Lexmark Cloud Services dashboard, and then do either of the following:

- From the dashboard, click the **Account Management** card.

**Note:** If the card is not available in the dashboard, then add the card. For more information, see [“Managing the dashboard” on page 23](#).

- From your current web portal, click  on the upper-right corner of the page, and then click **Account Management**.

## Understanding roles

Roles are used to establish administrative permissions, and to manage access to specific features of the website. Roles can be assigned at the organization, group, or user level.

**Note:** The following roles are applicable only if the organization is entitled to the particular solutions. For example, if an organization is entitled to a Scan Management solution, then the Scan Management Administrator or Scan Management User role is applicable.

### System roles

System roles are predefined roles.

- **Help Desk**—View users, badges, groups, applications, and organization information.
- **Organization Administrator**—Manage the organization and its users.
- **Partner Administrator**—Manage customer organizations and their users.

**Note:** This role is a special role for Lexmark resellers that create child organizations. Partner administrators can manage the child organizations that they have created under their parent organization. You can assign this role only to members of the Child Organization Access Group.

- **User**—View and manage your own account information. This role is the default role.
- **User Administrator**—Manage users in the organization.

**Note:** The User Administrator can view and create users, groups, and badges, but can view only organization information.

### Fleet Management roles

- **File Service Administrator**
  - Access the file management system when paired with the Fleet Management Administrator role.
  - Enroll printers in Cloud Fleet Management.

**Note:** This role is required in order to download the printer log files that are requested from the Fleet Management web portal.

- **Fleet Management Administrator**
  - Discover printers in a network.
  - Enroll printers in Cloud Fleet Management.



- Manage and deploy configurations to printers.

- **Fleet Management Reporting Analyst**—Access only the Fleet Management reporting data.

**Note:** This role does not let you enroll printers in their organization

**Note:** Accounts enrolling printers of child organizations in Cloud Fleet Management must be added as member of a **Child Organization Access Group**. They must also be assigned the **Partner Administrator**, **Fleet Management Administrator**, and **File Service Administrator** roles.

## Print Management roles

- **Print Release Management Administrator**

- Manage the organizational settings of Cloud Print Management.
- Manage the print queue of other users.
- Assign delegates.
- Set quotas for individuals and user groups.
- Modify document retention settings and other organizational print settings.
- Generate and download the default and custom Lexmark Print Management Client and Universal Print Driver packages.

- **Print Release Management Reporting Analyst**

- Access only the Cloud Print Management reporting data.
- Generate organizational Cloud Print Management reports but cannot release or submit print jobs.

- **Print Release Management User**—Submit, view, and manage your own print jobs. This role is the basic user role for Cloud Print Management.

**Note:** The **Print Release Management User** must be assigned to any user that requires access to Print Release basic features. Users can manage their own print queue and delegate their own print jobs to other users. If the organizational settings allow, then users can also download the default print driver packages.

- **Print Management Guest User**—Unregistered users who can submit print jobs through email only.

## Hybrid Print Management roles

- **Hybrid Print Management Administrator**

- Manage the organizational settings of Hybrid Print Management.
- Manage the print queue of other users.
- Set quotas for individuals and user groups.
- Modify document retention settings and other organizational print settings.
- Generate and download the default and custom Lexmark Print Management Client and Universal Print Driver packages.

- **Hybrid Print Management User**—View and manage your own print jobs. This role is the basic user role for Hybrid Print Management.



## Direct Print Management roles

- **Direct Print Management Administrator**
  - Manage configuration and access for direct print users.
  - Channel partners who manage printers in the customer organizations must be members of a **Child Organization Access Group**. The group must have the **Direct Print Management Administrator** role assigned to it.
- **Direct Print Management User**—Submit print jobs via direct print.

## Scan Management roles

- **Scan Management Administrator**—Enable and manage scan destination across the organization.
- **Scan Management User**—Use the scan to destinations feature.

## Translation Assistant roles

- **Translation Assistant Administrator**—Manage Translation Assistant settings.
- **Translation Assistant User**—Use Translation Assistant for the entitled organization.

## Solution Quota roles

- **Solutions Quota Administrator**—Use the Solution Quota web portal to manage solution quota configurations for the organization.

## Redaction Assistant roles

- **Redaction Assistant User**—Use Redaction Assistant for the entitled organization.

## Announcement Center roles

- **Announcement Center Author Admin**—Manage and author announcements for the Announcement Center.

# Organization administrator

## Managing the organization

This topic outlines the required tasks that the organization administrator must do when setting up the organization for the first time.

### 1 Assign organization roles.

All users in the organization inherit the roles assigned at the organization level. Assign only the roles that are applicable at end-user level, such as the Print Release Management User role. For more information on the roles, see [“Understanding roles” on page 240](#).

### 2 For an organization that has multiple child organizations, create a Child Organization Access Group, and then assign the group roles.

A Child Organization Access Group can be used to manage user access to all the child organizations. For more information, see [“Managing the Child Organization Access Group” on page 243](#).



**3** Create groups within the organization, and then assign the group roles.

Groups can be created to manage the users in the organization and establish a common set of roles. Members of the group inherit the roles and permissions that are assigned to a group. For more information, see [“Managing groups” on page 245](#).

**4** Set the password requirements.

**5** Create users, import users, or configure the authentication provider to generate users automatically.

The Account Management web portal lets you create individual users. For organizations with many users, a batch import can be done using a CSV file. For more information, see [“Managing users” on page 246](#).

**6** Add users to a group.

**7** Assign user roles.

The organization administrator can also do the following:

- Configure an authentication provider.
- Configure the printer login.
- Manage badges and PINs.

## Managing the Child Organization Access Group

This feature is available only in organizations that have been enabled for the creation of child organizations. From the parent organization, you can create the Child Organization Access Group, assign group roles, and add members. The members have access to all child organizations based on the roles assigned to the group.

This feature lets you manage user access to multiple child organizations easily. For example, if the Child Organization Access Group is assigned with the Fleet Management Administrator role, then all the members in that group are fleet management administrators in all the child organizations.

**1** From the Account Management web portal, select the parent organization.

**2** Click **Groups**.

**3** From the Child Organization Access tab, do any of the following:

### Create a group

- a** Click **Create Group** or **Create**, and then type a unique group name.

**Note:** We recommend naming the group as **Child Organization Access Group** to distinguish it from the regular groups created from the Groups feature. For more information on creating regular groups, see [“Managing groups” on page 245](#).

- b** Click **Create Group**.

### Delete groups

- a** Select one or more groups, and then click **Delete**.

**Note:** You can also search for groups using the search bar.

- b** Click **Delete Groups**.



### Add members to a group

- a Click a group name.
- b From the Members tab, click **Add Members** or **Add**, and then select one or more users.

**Note:** You can also search for users using the search bar.

- c Click **Add Members**.

### Remove group members

- a Click a group name.
- b From the Members tab, select one or more users, and then click **Remove**.
- c Click **Remove Members**.

### Assign group roles

**Note:** All users in the group inherit all the roles assigned to the group.

- a Click a group name.
- b From the Group Roles tab, click **Assign Roles** or **Assign**.
- c Select one or more roles.

**Note:** For more information, see [“Understanding roles” on page 240](#).

- d Click **Assign Roles**.

### Remove group roles

- a Click the group name.
- b From the Group Roles tab, select one or more roles, and then click **Remove**.
- c Click **Remove Roles**.

## Assigning organization roles

Organization roles are specific roles assigned to an organization. For more information, see [“Understanding roles” on page 240](#). All users that belong to the organization inherit the organization roles. For example, if an organization is assigned with the Print Release Management User role, then all users in the organization can use the Cloud Print Management feature.

- 1 From the Account Management web portal, click **Organization > Organization Roles**.
- 2 Click **Assign**, and then select one or more roles.
- 3 Click **Assign Roles**.

## Removing organization roles

- 1 From the Account Management web portal, click **Organization > Organization Roles**.
- 2 Select one or more roles, and then click **Remove**.
- 3 Click **Remove Roles**.



## Understanding the password requirements

Passwords must be at least 8 characters long and contain the following:

- A lowercase character
- An uppercase character
- A number (0–9)
- A special character (~ ! @ # \$ % ^ & \* \_ - + = ` | \ ( ) { } [ ] ; : " ' < > , . ? /)

## Managing groups

A group is a collection of users that can be managed with a common set of roles or permissions.

The following groups are predefined, and are assigned with specific roles:

- Admin
- Fleet Management
- Help Desk
- Reporting

**1** From the Account Management web portal, click **Groups**.

**2** Do any of the following:

### Create a group

- a Click **Create**, and then type a unique group name.
- b Click **Create Group**.

### Delete groups

Deleting a group does not delete the users from the organization. The users are disassociated from the group, and then the group is removed from the system.

- a Select one or more groups, and then click **Delete**.  
**Note:** You can also search for groups using the search bar.
- b Click **Delete Group** or **Delete Groups**.

### Add members to a group

- a Click a group name.
- b From the Members tab, click **Add Members**, and then select one or more users.  
**Note:** You can also search for users using the search bar.
- c Click **Add Members**.

### Remove group members

- a Click a group name.
- b From the Members tab, select one or more users, and then click **Remove**.
- c Click **Remove Members**.



### Assign group roles

All users in the group inherit all the roles assigned to the group.

- a Click a group name.
- b From the Group Roles tab, click **Assign Roles** or **Assign**.
- c Select one or more roles.
- d Click **Assign Roles**.

### Remove group roles

- a Click the group name.
- b From the Group Roles tab, select one or more roles, and then click **Remove**.
- c Click **Remove Roles**.

## Managing users

- 1 From the Account Management web portal, click **Users**.
- 2 Do any of the following:

### Create a user

- a Click **Create**.
- b Type the email address, first name, last name, and display name of the user.
- c Type the department and cost center name where the user belongs.
- d Set the password manually, or email a link to the user to change the password.
- e Click **Create User**.

### Edit a user

- a Click a user email address.
- b Do any of the following:
  - Edit the personal information.
  - Change the user password.
  - Assign user roles.
  - Register a badge.  
From the Printer Login section, click **Edit** beside Badge Login.
  - Add the user to a group.
  - Set the user PIN.

**Note:** This setting is available only when the printer login is set to **PIN Login** or **Badge + PIN as second factor**. The PIN generation must be set to **Administrator manually set**.

- 1 From the Printer Login section, click **Set PIN** or **Reset PIN**.
- 2 Enter the PIN, and then click **Generate PIN**.

### Delete users

- a Select one or more users, and then click **Delete**.



**Notes:**

- You can also search for users using the search bar.
- The activities of a deleted user are still shown in the Analytics web portal, but the name and email address are removed from all the reports.

**b** Click **Delete Users**.

**Import users**

The Import feature lets you create, update, and delete multiple users in an organization using a CSV or TXT file. You can also create user groups, and then assign a user to those groups.

**a** Click **Import Users** or **Import**, and then browse to the CSV or TXT file.

**b** If necessary, email a link to the user to change the password.

**c** Click **Import Users**.

**Note:** The import log is sent to your email address.

**Sample CSV format**

```
EMAIL, OPERATION, PASSWORD, FIRST_NAME, LAST_NAME, DISPLAY_NAME, SHORTNAME, GROUPS,
CUSTOM_ATTRIBUTES, COST_CENTER, DEPARTMENT
jdoe@company.com, CREATE, , John, Doe, Johnny, jdoe, Group 1, "{ 'key1': 'value1', 'key2': 'value2' }"
llane@company.com, UPDATE, password2, Lois, Lane, Lois, llane, ,
ckent@company.com, DELETE, , , , , , ,
```

The import file header line must be the following and is case-sensitive:

**EMAIL, OPERATION, PASSWORD, FIRST\_NAME, LAST\_NAME, DISPLAY\_NAME, SHORTNAME, GROUPS, CUSTOM\_ATTRIBUTES, COST\_CENTER, DEPARTMENT.**

**Line values and their conditions**

- **EMAIL**—Required for all users. EMAIL values that are in uppercase in the file are converted to lowercase before the operation is performed. For example, **JDOE@company.com** is converted to **jdoe@company.com**.
- **OPERATION**—Required for all users.

**Valid OPERATION values**

- **CREATE**—Creates a user identified by the EMAIL value with the corresponding properties on the line.
- **UPDATE**—Updates the existing user identified by the EMAIL value with the corresponding properties on the line. You can use the **[delete]** action string to remove the first name, last name, display name, and shortname.
- **DELETE**—Deletes the existing user identified by the EMAIL value.
- **PASSWORD**—Not required for any OPERATION, and can be empty only when “E-mail a link to change the password” option is selected when importing.

**Note:** Enable the “E-mail a link to change the password” option only when importing files with the CREATE operation.

- **FIRST\_NAME**—Not required for any OPERATION, and can be empty. The first name of the user. For example, **John**.
- **LAST\_NAME**—Not required for any OPERATION, and can be empty. The last name of the user. For example, **Doe**.



- **DISPLAY\_NAME**—Not required for any OPERATION, and can be empty. The name of the user that is sometimes used in display prompts or log reports. The DISPLAY\_NAME value can be the full name with middle initial or any string. For example, **John A. Doe**. The DISPLAY\_NAME value is not directly associated with the FIRST\_NAME and LAST\_NAME values.
- **SHORTNAME**—Not required for any OPERATION, and can be empty. The SHORTNAME value is used when the organization has a shortname string that also identifies the user in the organization. For example, **jdoe**.
- **GROUPS**—Not required for any OPERATION, and can be empty. Separate multiple groups by using commas and enclosing them in double quotation marks. For example, **"Group1, Group2, Group3"**. GROUPS values that do not exist in the organization are created, and then added to the organization automatically.

**Note:** A group name must not contain the following characters: **! @ # \$ % ^ & \* ; + ? / \ [ ]**. If these characters are used, then they are replaced with an underscore (**\_**).

- **CUSTOM\_ATTRIBUTES**—Not required for any OPERATION, and can be empty. The CUSTOM\_ATTRIBUTES value is a specially formatted JSON string for user metadata that is stored with the user. The value must be enclosed in double quotation marks. For example,  
**"{'key1':'value1','key2':'value2'}"**
- **COST\_CENTER**—Not required for any OPERATION, and can be empty. The COST\_CENTER value is used for quota assignments and cost-center-level reporting in the Analytics web portal.
- **DEPARTMENT**—Not required for any OPERATION, and can be empty. The DEPARTMENT value is used for quota assignments and department-level reporting in the Analytics web portal.

#### Notes:

- All lines must have the same number of values as the header, including the commas. Follow empty values with commas. For example, **jdoe@company.com, DELETE, , , , , ,**
- The file size must not exceed 1MB.
- Importing a file with CREATE and UPDATE operations with more than one group assignment can take a few minutes.
- If any line value contains a comma, such as the names, password, groups, or custom attributes, then the value must be enclosed in double quotation marks. For example,  
**llane@company.com, UPDATE, "pass, word2", Lois, Lane, "Lois, Lane", llane, "Group1, Group2",**

## Assigning user roles

Assigning user roles gives a particular user access to a particular task or function that is not appropriate to assign as a group or organization role. Groups or organizations that the user belongs to do not inherit the user role. For more information, see [“Understanding roles” on page 240](#).

- 1 From the Account Management web portal, click **Users**, and then click the user e-mail address.
- 2 From the Assigned Roles section, click **Edit**.
- 3 From the User Roles tab, click **Assign**, and then select the roles.
- 4 Click **Assign Roles**.



## Removing user roles

For more information, see [“Understanding roles” on page 240](#).

- 1 From the Account Management web portal, click **Users**, and then click the user e-mail address.
- 2 From the Assigned Roles section, click **Edit**.
- 3 Select one or more roles, and then click **Remove**.
- 4 Click **Remove Roles**.

# Configuring Azure Active Directory (AD) with OIDC Federation

## Configuring Azure AD federation for OIDC overview

This document provides guidance for network administrators on configuring Microsoft Azure Active Directory (AD) to enable OpenID Connect (OIDC) federation with the Lexmark Cloud Services. For more information, contact the Lexmark Professional Services team.

### Prerequisites

Before you begin, make sure that you have administrator access to the following portals:

- Microsoft Azure Active Directory
- Lexmark Cloud Services

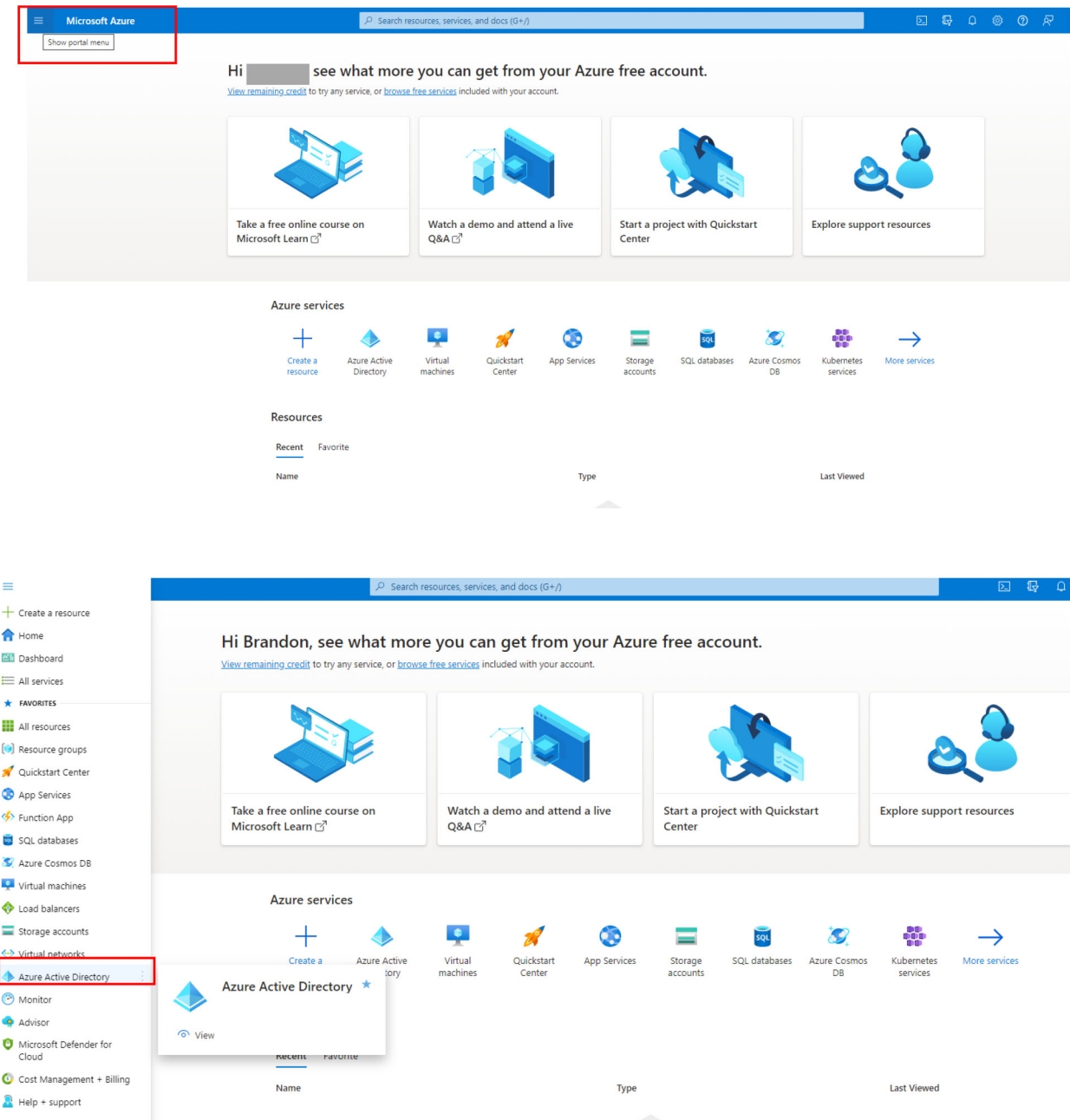
## Understanding federation

After implementing OIDC for federation, when accessing the Lexmark Cloud Services portal for the first time, users are prompted to enter their email address. They are then redirected to their identity provider (IDP) to complete the login procedure.



## Registering a web application

1 From the Azure portal, navigate to the **Azure Active Directory**.



2 In the Manage section, select **App registrations**.



### 3 Click **New registration**.

The screenshot shows the Microsoft Azure portal interface. At the top, there's a blue header with the Microsoft Azure logo and a search bar. Below the header, the breadcrumb navigation shows 'Home > Default Directory | Overview'. The left-hand navigation pane is expanded, showing various management options. The 'App registrations' option is highlighted with a red rectangular box. The main content area displays the 'Default Directory | Overview' page, which includes a search bar for tenants, basic information (Name, Tenant ID, Primary domain, License), and a table of statistics (Users, Groups, Applications, Devices). There are also alerts for IPv6 enablement and MFA Server deprecation.

The screenshot shows the Microsoft Azure portal interface for the 'Default Directory | App registrations' page. The breadcrumb navigation shows 'Home > Default Directory | App registrations'. The left-hand navigation pane is expanded, and the 'App registrations' option is highlighted. The main content area displays the 'App registrations' page, which includes a search bar for applications, a table of applications, and a 'New registration' button. The 'New registration' button is highlighted with a red rectangular box. Below the button, there's a message about the deprecation of ADAL and Azure AD Graph, and a link to learn more. At the bottom, there are two buttons: 'View all applications in the directory' and 'View all applications from personal account'.

### 4 Provide a name for the application.

### 5 Select the supported account types for the application registration.

- **Microsoft only – Single tenant**—All user and guest accounts within your directory can use the application or API. Select this option if your target audience is internal to your organization.
- **Any Azure AD directory – Multitenant**—Users with work or school accounts from Microsoft, including Office 365 users, can use the application or API. Select this option for business or educational customers and to enable multitenancy.



- **Any Azure AD directory – Multitenant and personal Microsoft accounts**—Users with work or school accounts, as well as personal Microsoft accounts, can access the application or API. These users include Office 365 users and individuals using services like Xbox and Skype. Select this option to target a wide range of Microsoft identities and enable multitenancy.
- **Personal Microsoft accounts only**—Allows access only to personal Microsoft accounts used for services like Xbox and Skype. Select this option to target the broadest range of Microsoft identities.

**6** In the Redirect URL menu, select **Web**.

**7** Type the redirect URL or reply URL for your portal in the provided text box.

**Note:** The authorization server routes the user to the redirect URL after successfully authorizing and granting an authorization code or access token.

- The redirect URL must begin with the scheme https unless you use a localhost redirect URL.
- The redirect URL is case-sensitive. Its case must match the URL path of your running application.
- Make sure that the redirect URL includes or excludes the trailing forward slash according to your application.
- The redirect URLs for U.S. and EU regions are as follows:
  - US—<https://lexmarkb2c.b2clogin.com/lexmarkb2c.onmicrosoft.com/oauth2/authresp>
  - EU—<https://lexmarkb2ceu.b2clogin.com/lexmarkb2ceu.onmicrosoft.com/oauth2/authresp>



## 8 Select **Register**.

Microsoft Azure

Search resources, services, and docs (G+)

[Home](#) > [Default Directory](#) | [App registrations](#) >

### Register an application ...

\* Name

The user-facing display name for this application (this can be changed later).

OIDC Test 1 ✓

Supported account types

Who can use this application or access this API?

☒ Accounts in this organizational directory only (Default Directory only - Single tenant)

☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant)

☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

☐ Personal Microsoft accounts only

[Help me choose...](#)


Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Web ✓

Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).

---

By proceeding, you agree to the [Microsoft Platform Policies](#) 

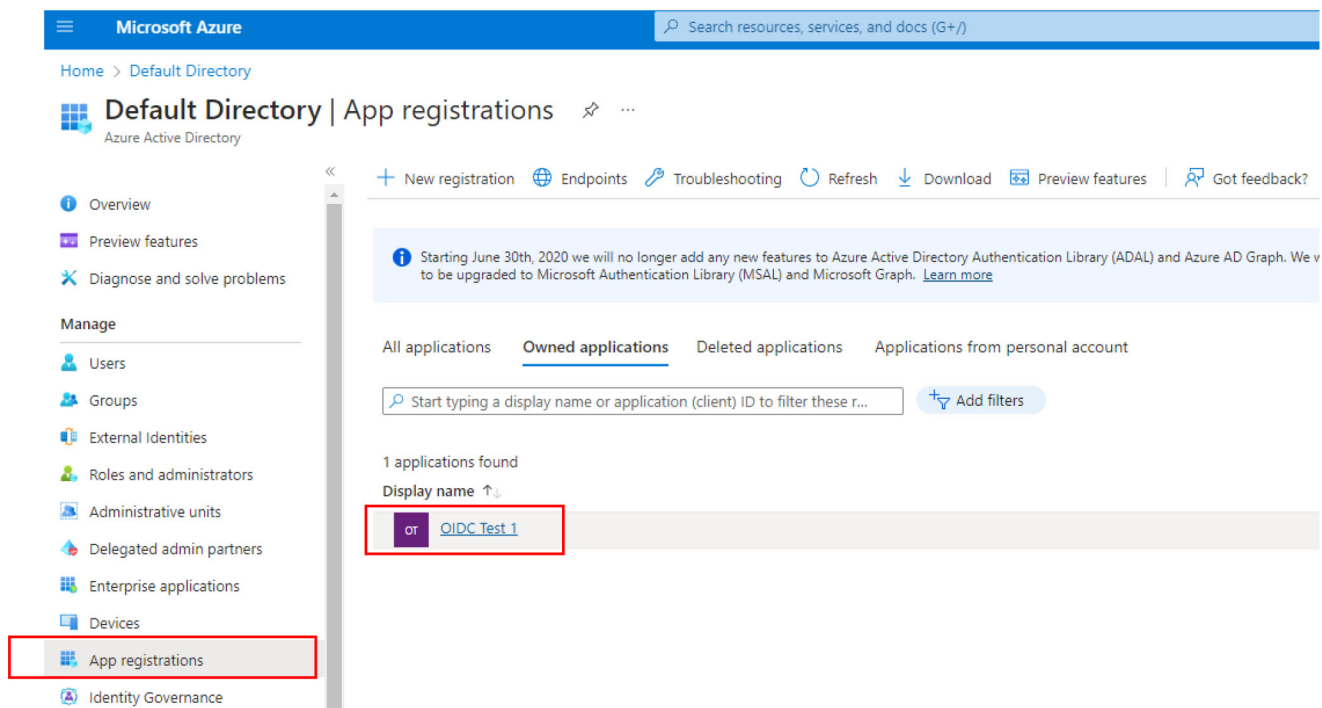
Register



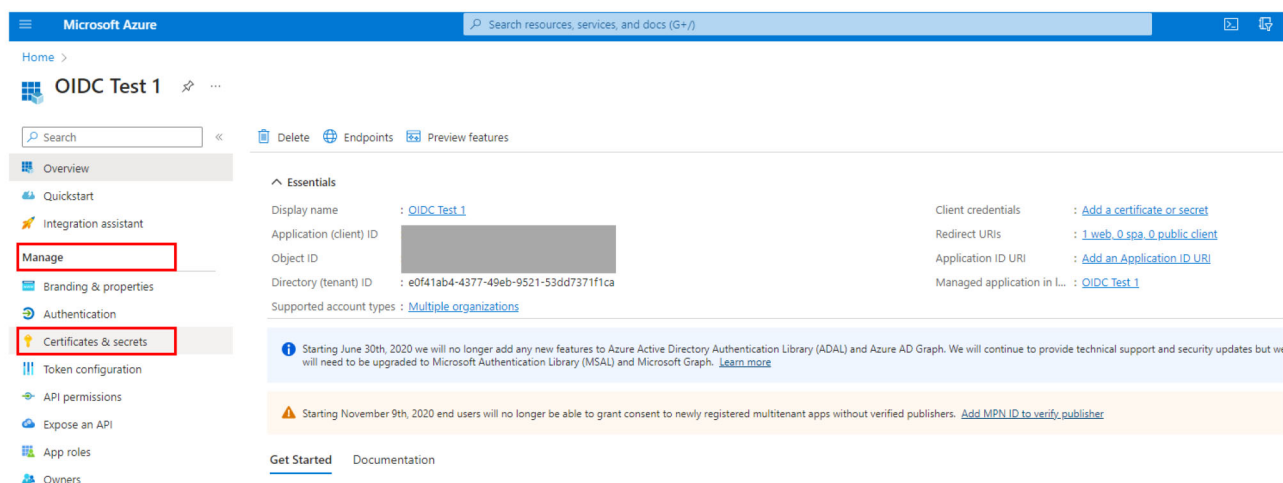
## Creating a client secret

The client secret, also referred to as the application password, allows your application to exchange an authorization code for an access token

- 1 From the Manage section, select **App registrations**.
- 2 Select the application that you created (for example, OIDC Test 1).



- 3 In the Manage section, select **Certificates and secrets**.





#### 4 Click **New client secret**.

Microsoft Azure

Home > OIDC Test 1

OIDC Test 1 | Certificates & secrets

Search resources, services, and docs (G+/I)

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Manifest

Support + Troubleshooting

Troubleshooting

New support request

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (0) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value	Secret ID
No client secrets have been created for this application.			

#### 5 Provide a description.

#### 6 Set an expiry date.

#### 7 Click **Add**.

Microsoft Azure

Home > OIDC Test 1

OIDC Test 1 | Certificates & secrets

Search resources, services, and docs (G+/I)

Overview

Quickstart

Integration assistant

Manage

Branding & properties

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

App roles

Owners

Roles and administrators

Manifest

Support + Troubleshooting

Troubleshooting

New support request

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (0) Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value	Secret ID
No client secrets have been created for this application.			

Add a client secret

Description

This is a test application for OIDC docs.

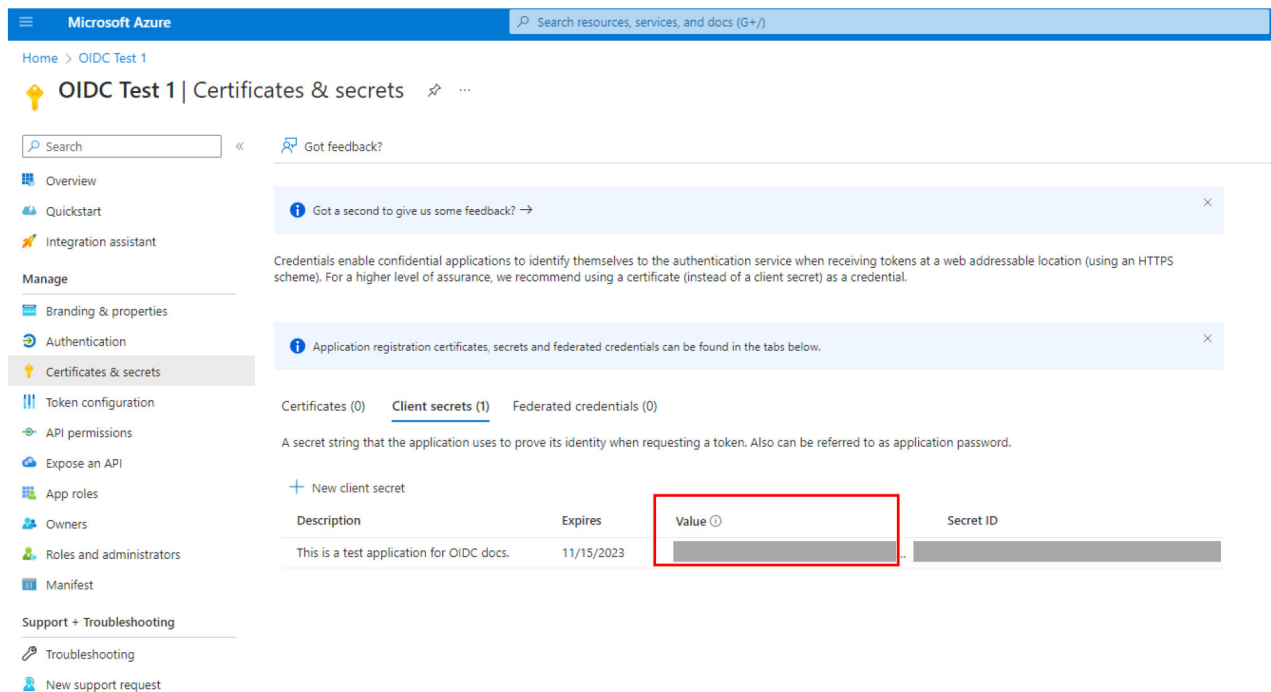
Expires

Recommended: 180 days (6 months)

Add Cancel



## 8 Save the client secret for later use in this guide.



Microsoft Azure

Home > OIDC Test 1

**OIDC Test 1 | Certificates & secrets**

Search resources, services, and docs (G+)

Overview  
Quickstart  
Integration assistant

Manage

Branding & properties  
Authentication  
**Certificates & secrets**  
Token configuration  
API permissions  
Expose an API  
App roles  
Owners  
Roles and administrators  
Manifest

Support + Troubleshooting  
Troubleshooting  
New support request

Got a second to give us some feedback? →

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) **Client secrets (1)** Federated credentials (0)

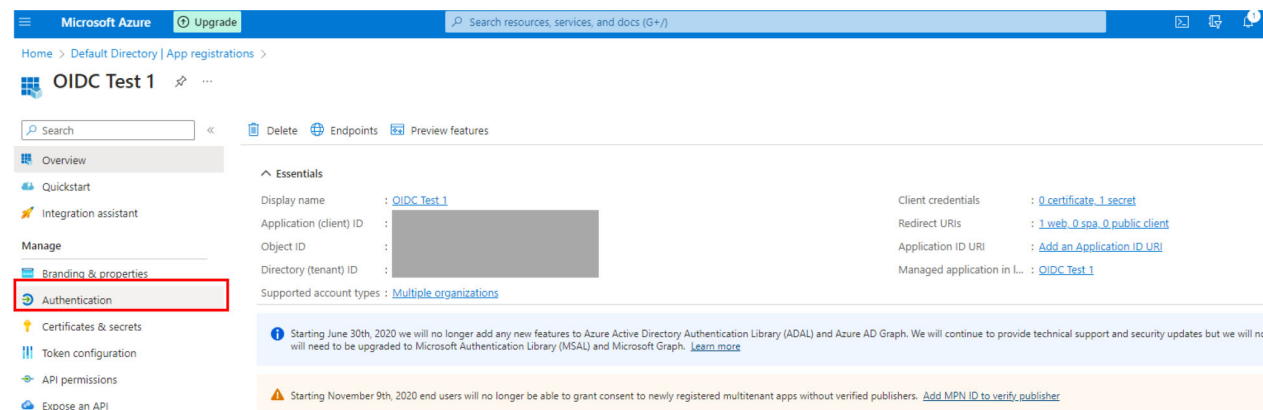
A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value ⓘ	Secret ID
This is a test application for OIDC docs.	11/15/2023		

## Enabling implicit grant and hybrid flows

- 1 From the Manage section, select **App registrations**.
- 2 Select the application that you created (for example, OIDC Test 1).
- 3 In the **Manage** section, select **Authentication**.



Microsoft Azure

Home > Default Directory | App registrations >

**OIDC Test 1**

Search resources, services, and docs (G+)

Overview  
Quickstart  
Integration assistant

Manage

Branding & properties  
**Authentication**  
Certificates & secrets  
Token configuration  
API permissions  
Expose an API

Delete Endpoints Preview features

Essentials

Display name : [OIDC Test 1](#)

Application (client) ID : [REDACTED]

Object ID : [REDACTED]

Directory (tenant) ID : [REDACTED]

Supported account types : [Multiple organizations](#)

Client credentials : [0 certificate\\_1-secret](#)

Redirect URIs : [1 web, 0 spa, 0 public client](#)

Application ID URI : [Add an Application ID URI](#)

Managed application in L... : [OIDC Test 1](#)

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support and security updates but we will no longer need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

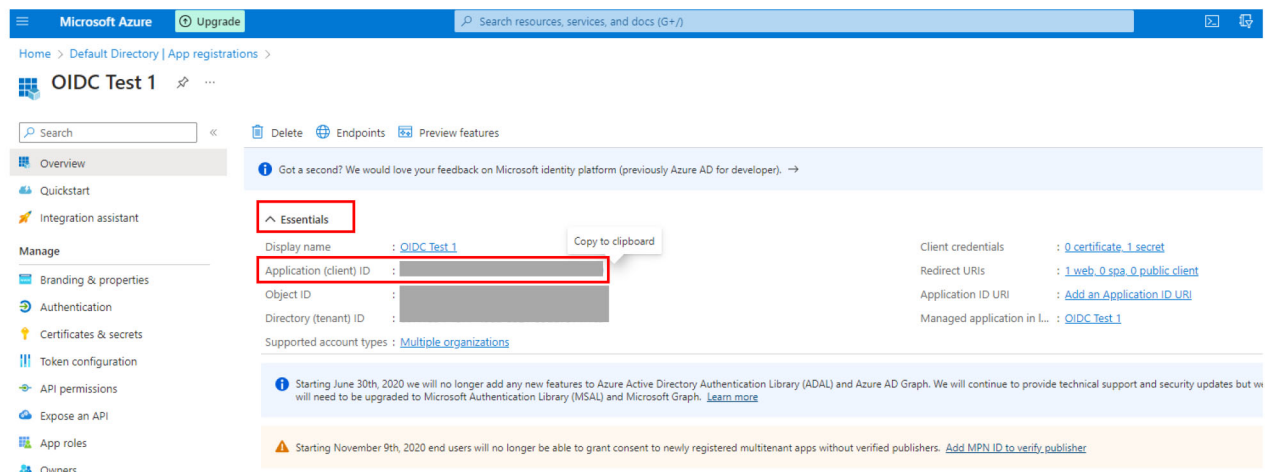
Starting November 9th, 2020 end users will no longer be able to grant consent to newly registered multitenant apps without verified publishers. [Add MPN ID to verify publisher](#)

- 4 In the Implicit grant and hybrid flows section, select **ID tokens**.
- 5 Click **Save**.



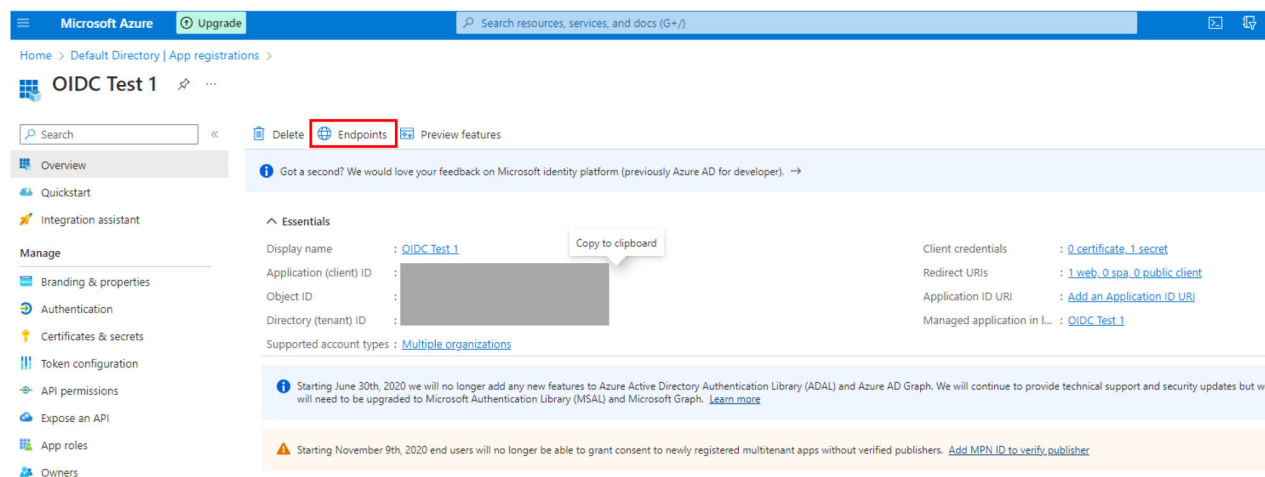
## Retrieving the application (client) ID

- 1 From the Microsoft Azure navigation menu on the upper-left corner of the page, select **Azure Active Directory**.
- 2 In the Manage section, select **App registrations**.
- 3 Select the application that you created (for example, OIDC Test 1).
- 4 In the Essentials section, duplicate the application (client) ID.
- 5 Save this ID for later use in this guide.



## Retrieving the OpenID Connect metadata document

- 1 From the current screen, select **Endpoints**.



- 2 In the Endpoints section, locate **OpenID Connect metadata document**.



### 3 Save the URL for later use in this guide.

The screenshot shows the Azure portal interface for an application named 'OIDC Test 1'. On the left, the 'Manage' section is expanded, and 'Token configuration' is selected. The main area displays the 'Endpoints' section, which lists various OAuth 2.0 and OpenID Connect endpoints. The 'OpenID Connect metadata document' endpoint is highlighted with a red box, and its URL, <https://login.microsoftonline.com/organizations/v2.0/oidc-configuration>, is shown. A 'Copy to clipboard' button is visible next to the URL.

## Configuring claims

- 1 From the Azure portal, navigate to the **Azure Active Directory**.
- 2 In the Manage section, select **App registrations**.
- 3 Select the application that you created (for example, OIDC Test 1).
- 4 In the Manage section, select **Token configuration**.

The screenshot shows the Azure portal interface for an application named 'OIDC Test 1'. On the left, the 'Manage' section is expanded, and 'Token configuration' is selected. The main area displays the 'Token configuration' section, which shows the application's configuration details. The 'Token configuration' option in the left sidebar is highlighted with a red box. The main area shows the 'Token configuration' section with various fields and options.



**5** Click **Add optional claim**.

The screenshot shows the Microsoft Azure portal interface. At the top, there's a blue header with the 'Microsoft Azure' logo, an 'Upgrade' button, and a search bar. Below the header, the breadcrumb 'Home > OIDC Test 1' is visible. The main heading is 'OIDC Test 1 | Token configuration'. On the left, a sidebar lists navigation options: Overview, Quickstart, Integration assistant, and a 'Manage' section containing Branding & properties, Authentication, Certificates & secrets, Token configuration (highlighted), API permissions, and Expose an API. The main content area is titled 'Optional claims' and includes a description: 'Optional claims are used to configure additional information which is returned in one or more tokens. [Learn more](#)'. Below this, there are two buttons: '+ Add optional claim' (highlighted with a red box) and '+ Add groups claim'. A tooltip 'Add optional claim' is shown over the first button. At the bottom, a table with columns 'Claim' and 'Description' is shown, containing the text 'No results.'

**6** Under Token type, select **ID**.

This screenshot shows the 'Add optional claim' dialog box overlaid on the previous page. The dialog has a title bar 'Add optional claim' with a close button. Inside, it says 'Once a token type is selected, you may choose from a list of available optional claims.' Below this, under the heading 'Token type', there are three radio button options: 'ID' (which is selected and highlighted with a red box), 'Access', and 'SAML'. A link '[Learn more](#)' is provided for the 'ID' option.



**7** From the list that appears, select the claims that you want to add.

The screenshot shows the Azure AD portal interface. On the left is a navigation pane with options like Overview, Quickstart, Integration assistant, Manage, Branding & properties, Authentication, Certificates & secrets, Token configuration (selected), API permissions, Expose an API, App roles, Owners, Roles and administrators, Manifest, Support + Troubleshooting, Troubleshooting, and New support request. The main area is titled 'OIDC Test 1 | Token configuration' and shows 'Optional claims' with a table that currently has 'No results.' Below this are buttons for '+ Add optional claim' and '+ Add groups claim'. On the right, the 'Add optional claim' dialog box is open. It shows 'Token type' as 'ID' (selected) and a list of available claims. A red rectangle highlights the following claims in the list:

Claim	Description
acct	User's account status in tenant
auth_time	Time when the user last authenticated; See OpenID Con...
ctry	User's country/region
email	The addressable email for this user; if the user has one
family_name	Provides the last name, surname, or family name of the ...
fn	IP address
given_name	Provides the first or "given" name of the user, as set on ...
in_corp	Signals if the client is logging in from the corporate net...
ipaddr	The IP address the client logged in from
login_hint	Login hint
onprem_sid	On-premises security identifier
preferred_username	Provides the preferred username claim, making it easier...
pwd_exp	The datetime at which the password expires
pwd_url	A URL that the user can visit to change their password
sid	Session ID, used for per-session user sign out
tenant_ctry	Resource tenant's country/region
tenant_region_scope	Region of the resource tenant

At the bottom of the dialog are 'Add' and 'Cancel' buttons.

You can select three claims and four optional claims based on the preferences and business use cases.

- Required claims:
  - E-mail
  - Family name
  - Given name
- Optional claims:
  - Badge
  - PIN
  - Department
  - Cost center



**8 Click Add.**

The screenshot shows the Azure AD portal interface. On the left, the navigation pane includes 'Overview', 'Quickstart', 'Integration assistant', 'Manage', 'Branding & properties', 'Authentication', 'Certificates & secrets', 'Token configuration' (selected), 'API permissions', 'Expose an API', 'App roles', 'Owners', 'Roles and administrators', 'Manifest', 'Support + Troubleshooting', 'Troubleshooting', and 'New support request'. The main area displays 'Optional claims' for 'OIDC Test 1 | Token configuration'. It states: 'Optional claims are used to configure additional information which is returned in one or more tokens. [Learn more](#)'. Below this are links to '+ Add optional claim' and '+ Add groups claim'. A table with columns 'Claim' and 'Description' shows 'No results.' On the right, the 'Add optional claim' dialog is open. It shows the 'Token type' as 'ID'. Below, a list of claims is shown with checkboxes. The 'email', 'family\_name', 'fwd', and 'given\_name' claims are selected and highlighted with a red box. The 'Add' button is at the bottom.

Home > OIDC Test 1

OIDC Test 1 | Token configuration

Search

Got feedback?

Overview

Quickstart

Integration assistant

Manage

Branding & properties

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

App roles

Owners

Roles and administrators

Manifest

Support + Troubleshooting

Troubleshooting

New support request

Optional claims

Optional claims are used to configure additional information which is returned in one or more tokens. [Learn more](#)

+ Add optional claim + Add groups claim

Claim	Description
No results.	

Add optional claim

Once a token type is selected, you may choose from a list of available optional claims.

\* Token type

Access and ID tokens are used by applications for authentication. [Learn more](#)

☒ ID

☐ Access

☐ SAML

Claim	Description
<input type="checkbox"/> acct	User's account status in tenant
<input type="checkbox"/> auth_time	Time when the user last authenticated; See OpenID Connect
<input type="checkbox"/> cty	User's country/region
<input checked="" type="checkbox"/> email	The addressable email for this user, if the user has one
<input checked="" type="checkbox"/> family_name	Provides the last name, surname, or family name of the ...
<input type="checkbox"/> fwd	IP address
<input checked="" type="checkbox"/> given_name	Provides the first or "given" name of the user, as set on ...
<input type="checkbox"/> in_corp	Signals if the client is logging in from the corporate net...
<input type="checkbox"/> ipaddr	The IP address the client logged in from
<input type="checkbox"/> login_hint	Login hint
<input type="checkbox"/> onprem_sid	On-premises security identifier
<input type="checkbox"/> preferred_username	Provides the preferred username claim, making it easier...
<input type="checkbox"/> pwd_exp	The datetime at which the password expires
<input type="checkbox"/> pwd_url	A URL that the user can visit to change their password
<input type="checkbox"/> sid	Session ID, used for per-session user sign out
<input type="checkbox"/> tenant_ctry	Resource tenant's country/region
<input type="checkbox"/> tenant_region_scope	Region of the resource tenant

Add Cancel

**9 From the menu that appears, select Turn on the Microsoft Graph email, profile permission (required for claims to appear in the token), and then click Add.**

**Note:** The selected claims appear under your application.

The screenshot shows the Azure AD portal interface. On the left, the navigation pane is the same as in the previous screenshot. The main area displays 'Optional claims' for 'OIDC Test 1 | Token configuration'. It states: 'Optional claims are used to configure additional information which is returned in one or more tokens. [Learn more](#)'. Below this are links to '+ Add optional claim' and '+ Add groups claim'. A table with columns 'Claim' and 'Description' shows 'No results.' On the right, the 'Add optional claim' dialog is open. It shows the 'Token type' as 'ID'. Below, a list of claims is shown with checkboxes. The 'email', 'family\_name', 'fwd', and 'given\_name' claims are selected. A red box highlights the 'Turn on the Microsoft Graph email, profile permission (required for claims to appear in token)' checkbox, which is also checked. The 'Add' button is at the bottom.

Home > OIDC Test 1

OIDC Test 1 | Token configuration

Search

Got feedback?

Overview

Quickstart

Integration assistant

Manage

Branding & properties

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

App roles

Owners

Roles and administrators

Manifest

Support + Troubleshooting

Troubleshooting

New support request

Optional claims

Optional claims are used to configure additional information which is returned in one or more tokens. [Learn more](#)

+ Add optional claim + Add groups claim

Claim	Description
No results.	

Add optional claim

Some of these claims (email, family\_name, given\_name) require OpenID Connect scopes to be configured through the API permissions page or by checking the box below. [Learn more](#)

☒ Turn on the Microsoft Graph email, profile permission (required for claims to appear in token)

Add Cancel

☐ SAML Add

Claim	Description
<input type="checkbox"/> acct	User's account status in tenant
<input type="checkbox"/> auth_time	Time when the user last authenticated; See OpenID Connect
<input type="checkbox"/> cty	User's country/region
<input checked="" type="checkbox"/> email	The addressable email for this user, if the user has one
<input checked="" type="checkbox"/> family_name	Provides the last name, surname, or family name of the ...
<input type="checkbox"/> fwd	IP address
<input checked="" type="checkbox"/> given_name	Provides the first or "given" name of the user, as set on ...
<input type="checkbox"/> in_corp	Signals if the client is logging in from the corporate net...



Home > OIDC Test 1

## OIDC Test 1 | Token configuration

Search  Got feedback?

Overview  
Quickstart  
Integration assistant  
Manage

Branding & properties  
Authentication  
Certificates & secrets  
**Token configuration**  
API permissions  
Expose an API

### Optional claims

Optional claims are used to configure additional information which is returned in one or more tokens. [Learn more](#)

+ Add optional claim + Add groups claim

Claim ↑	Description	Token type ↑	Optional settings
email	The addressable email for this user, if the user has one	ID	-
family_name	Provides the last name, surname, or family name of the user as defined in the user object	ID	-
given_name	Provides the first or "given" name of the user, as set on the user object	ID	-

## Configuring Lexmark Cloud Services

- 1 Log in to Lexmark Cloud Services.
- 2 From the navigation menu on the right side of the screen, select **Account Management**.

Lexmark Cloud Services Home

Brandons Dashboard

Analytics  
Report on usage and printer activity. You can also create and export reports for a specific organization or user.

Print Management  
Manage print queues and user quotas, delegate print jobs, and perform document accounting. You can also manage hybrid clients and download the Print Management client.

Fleet Management  
Enroll printers to Lexmark Cloud Services to enhance printer functionality.

Account Management  
Manage organizations, user accounts, and badge information. You can also configure system permissions.

Printed / Deleted Pages

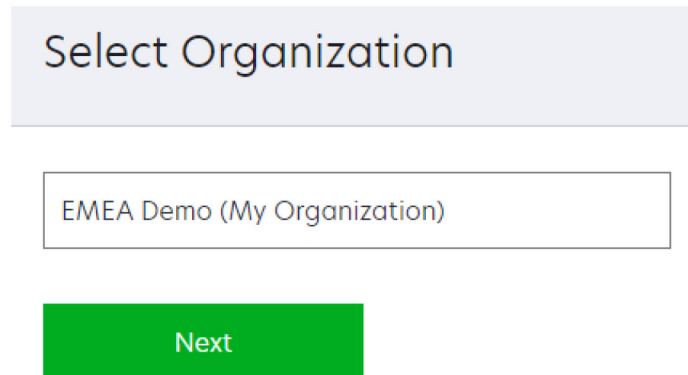
Color / Mono Impressions

Deleted - 20  
Printed - 8  
Last 30 Days - Internal Training

Color - 0  
B&W - 8  
Last 30 Days - Internal Training

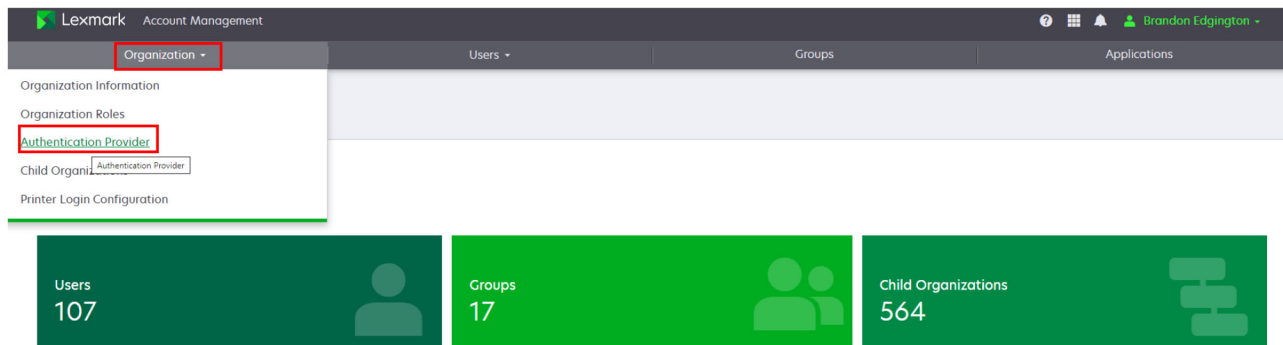


3 If necessary, select your organization, and then click **Next**.

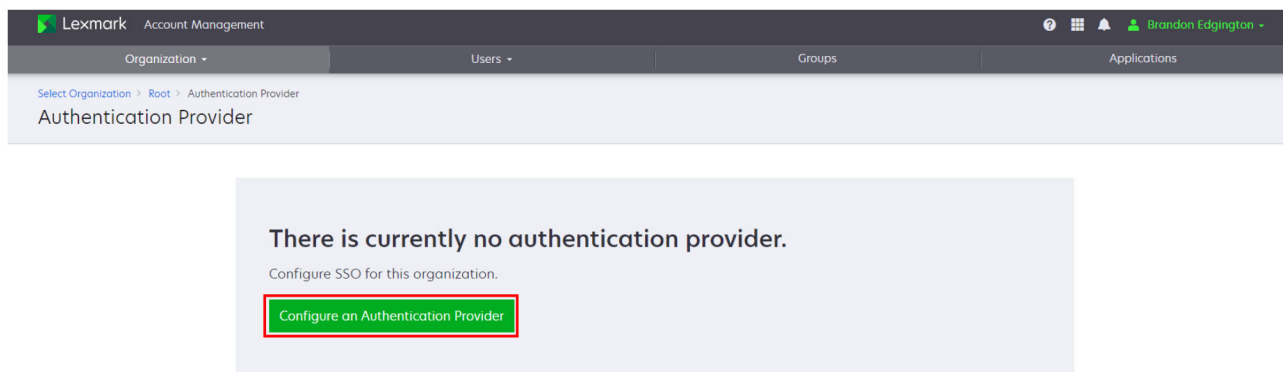


The screenshot shows a 'Select Organization' screen. At the top, there is a light blue header with the text 'Select Organization'. Below this, there is a text input field containing 'EMEA Demo (My Organization)'. At the bottom, there is a large green button labeled 'Next'.

4 In the Organization section, select **Authentication Provider**.



5 Click **Configure** on **Authentication Provider**.



6 From the Authentication Provider Type menu, select **OIDC**.

7 Enter the required information copied from Azure AD:

- Client ID (Application client ID)
- Client Secret (Client secret value)



- Well-known URL (OpenID Connect metadata document URL)

**Note:** The Domains field allows Lexmark Cloud Services to automatically establish a new user account after the user logs in. Listing each organization's domain is not required. If no domain is set, then the new users must be manually added to the organization before they log in.

**8** Click **Configure Authentication Provider**.

### Domains

+ Add

### Type

OIDC

### Single Sign-On Settings

Authentication Provider Type

OIDC

CLIENT ID (Required)

*SSO CLIENT ID used to log in to the SSO provider*

CLIENT SECRET (Required)

*SSO CLIENT SECRET used to log in to the SSO provider*

Well-known URL (Required)

*OpenID configuration document URL*

Configure Authentication Provider

Cancel

## Testing a federation

**Note:** Do not log out or close the current browser until the federation is successfully set up.

- 1 From the same workstation, open a new browser window.
- 2 From a different workstation, open a new browser window.



- 3 Log in to Lexmark Cloud Services from either workstation.  
Instead of the default Lexmark Cloud Services login page, you are directed to your IDP.
- 4 Log in with your credentials.
- 5 Validate the claim details in the My Account page of Lexmark Cloud Services.

Lexmark My Account

My Account

**Personal Information** [Edit](#)

Display Name:  
E-mail:  
First Name:  
Last Name:  
Department:  
Cost Center:  
Last Login:

[Reset Password](#)

**Assigned Groups** [View](#)

**Assigned Roles** [View](#)

User Roles:  
Group Roles:  
Organization Roles:

**Printer Login**

Login Method:  
Manual:  
Badges:  
No badge registered

PIN:  
[Reset PIN](#)  
PIN has expired, please contact admin for your PIN

## Configuring Microsoft Entra ID with SAML Federation

### Configuring Microsoft Entra ID federation for SAML overview

This document is intended to help network administrators configure Microsoft Entra ID for Security Assertion Markup Language (SAML) federation with the Lexmark Cloud platform. For more information, contact the Lexmark Professional Services team.

#### Prerequisites

Before you begin, make sure that you have administrator access to the following portals:

- Microsoft Azure portal
- Lexmark Cloud Services

### Understanding the user experience for CIAM organization

After federation with SAML is complete, first-time users must provide their email address in the Lexmark Cloud Services portal. Then they are redirected to their identity provider to complete the login process.

If the user has never signed into their identity provider, they are prompted for their username and password. On completing that sign-in process, the user is then redirected back to the Lexmark Cloud Services portal.

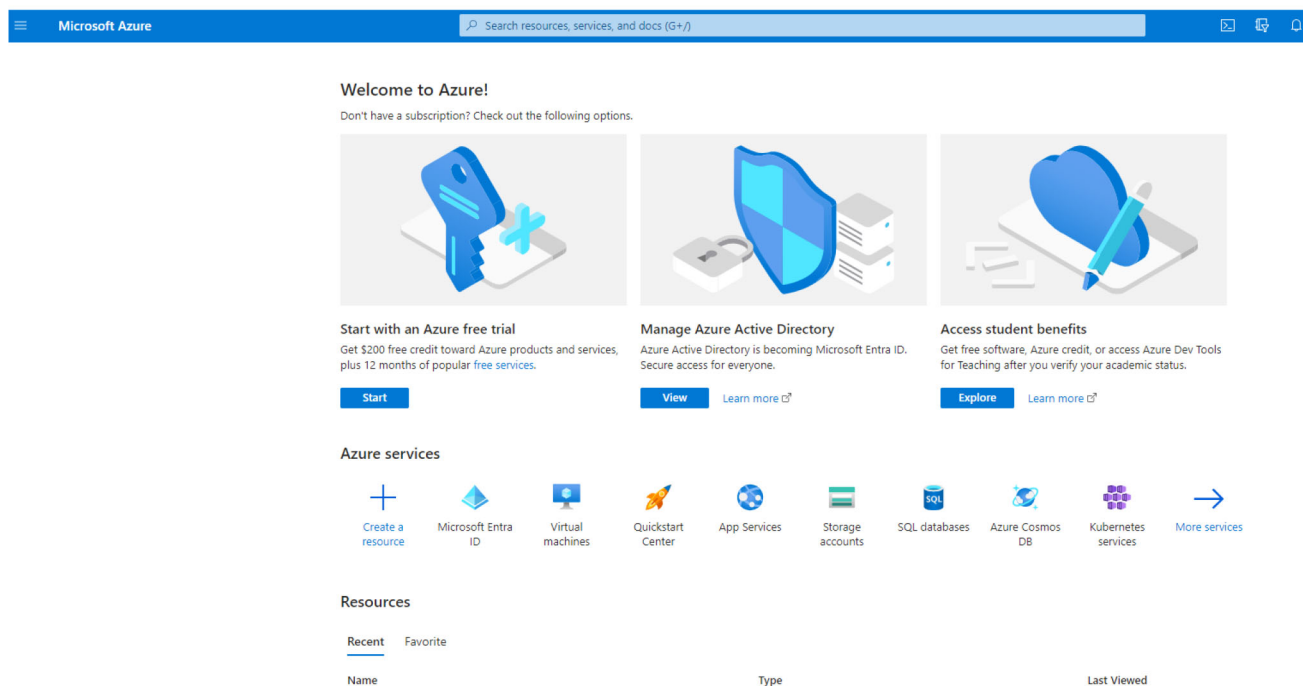


## Configuring Microsoft Entra ID

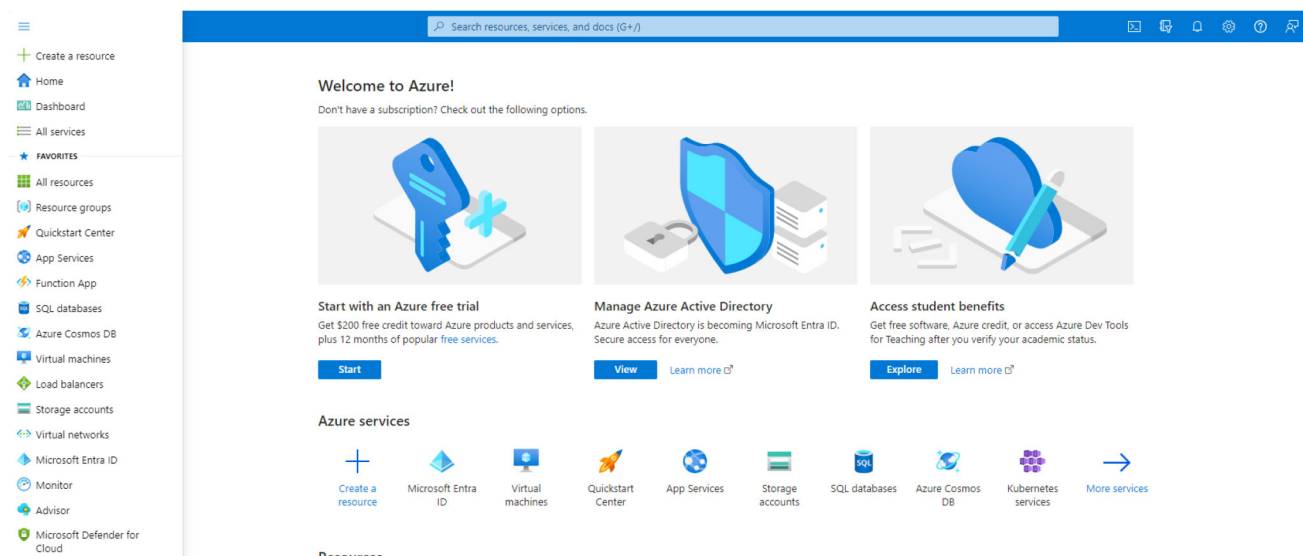
The screenshots may vary depending on the latest release

### Creating an enterprise application

- 1 Log in to the Microsoft Azure portal.
- 2 Select **Microsoft Azure**.



- 3 Select **Microsoft Entra ID**.





4 In the Manage section, click **Enterprise applications** > **New application**.

Home >

## Default Directory | Overview

Microsoft Entra ID

Overview

Preview features

Diagnose and solve problems

Manage

Users

Groups

External Identities

Roles and administrators

Administrative units

Delegated admin partners

Enterprise applications

Devices

App registrations

Identity Governance

Application proxy

Custom security attributes

Licenses

Cross-tenant synchronization

+ Add

Manage tenants

What's new

Preview features

Got feedback?

Azure Active Directory is now Microsoft Entra ID. [Learn more](#)

Overview

Monitoring

Properties

Recommendations


Tutorials


Search your tenant

Basic information

Name	Default Directory	Users	1
Tenant ID	e0f41ab4-4377-49eb-9521-53dd7371f1ca	Groups	0
Primary domain	brandonedgingtonoutlook.onmicrosoft.com	Applications	1
License	Microsoft Entra ID Free	Devices	0

Alerts

**Microsoft Entra Connect v1 Retirement**  
All version 1.x builds of Microsoft Entra Connect (formerly AAD Connect) will soon stop working between October 2023 – March 2024. You must move to Cloud Sync or Microsoft Entra Connect v2.x.  
[Learn more](#)

**Azure AD is now Microsoft Entra ID**  
Microsoft Entra ID is the new name for Azure Active Directory. No action is required from you.  
[Learn more](#)

Home > Default Directory | Enterprise applications > Enterprise applications

## Enterprise applications | All applications

Default Directory - Microsoft Entra ID

Overview

Overview

Diagnose and solve problems

Manage

All applications

Application proxy

User settings

App launchers

Custom authentication extensions (Preview)

Security

Conditional Access

Consent and permissions

+ New application

Refresh

Download (Export)

Preview info

Columns

Preview features

Got feedback?

View, filter, and search applications in your organization that are set up to use your Microsoft Entra tenant as their Identity Provider.

The list of applications that are maintained by your organization are in [application registrations](#).

Search by application name or object ID

Application type == Enterprise Applications

Application ID starts with

Add filters

1 application found

Name	Object ID	Application ID	Homepage URL	Created on
OT <a href="#">OIDC Test 1</a>	584b0db5-b420-43b9-833a-3...	70ca3eea-d30d-4bda-8d2f-22...		5/19/2023



## 5 Click **Create your own application**.

[Home](#) > [Default Directory](#) | [Enterprise applications](#) > [Enterprise applications](#) | [All applications](#) >

### Browse Microsoft Entra ID Gallery

[+ Create your own application](#) | [Got feedback?](#)

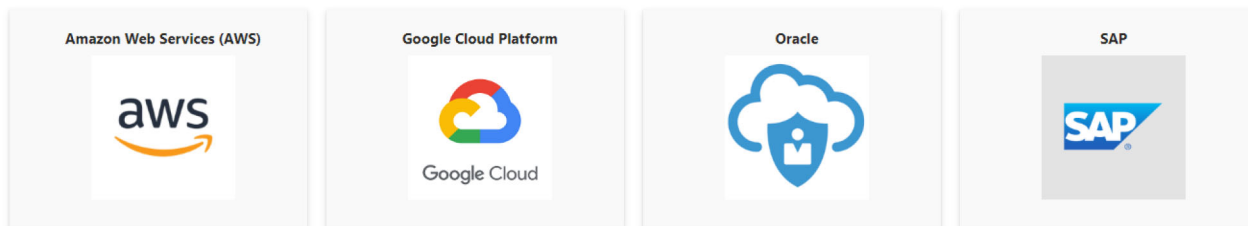
The Microsoft Entra ID App Gallery is a catalog of thousands of apps that make it easy to deploy and configure single sign-on (SSO) and automated user provisioning. When deploying an app from the App Gallery, you leverage prebuilt your own application here. If you are wanting to publish an application you have developed into the Microsoft Entra ID Gallery for other organizations to discover and use, you can file a request using the process described in [this article](#).

Single Sign-on : **All**

User Account Management : **All**

Categories : **All**

#### Cloud platforms



6 On the Create your own application window, in the What's the name of your app? field, type the name of your new enterprise application.

7 Select **Integrate any other application you don't find in the gallery (Non-gallery)**.

8 Click **Create**.

The screenshot shows the Microsoft Azure portal interface. On the left, the 'Browse Microsoft Entra ID Gallery' page is visible, showing cloud platforms and on-premises applications. On the right, the 'Create your own application' dialog box is open. The dialog box has a 'Got feedback?' link at the top. Below it, there's a text area for 'What's the name of your app?' with 'SAML Test' entered. Under 'What are you looking to do with your application?', three radio buttons are shown: 'Configure Application Proxy for secure remote access to an on-premises application', 'Register an application to integrate with Microsoft Entra ID (App you're developing)', and 'Integrate any other application you don't find in the gallery (Non-gallery)'. The third option is selected. Below this, there's a section 'We found the following applications that may match your entry' with two suggestions: 'tesma' and 'Salestim'. At the bottom right of the dialog box is a 'Create' button.



## Setting up basic SAML configuration

The screenshots may vary depending on the latest release

- 1 Select **Microsoft Azure**.
- 2 Select **Microsoft Entra ID**.
- 3 In the Manage section, click **Enterprise applications**.
- 4 Select the application that you have created.

The screenshot shows the Microsoft Azure portal interface for managing Enterprise applications. The top navigation bar includes the Microsoft Azure logo and a search bar. The breadcrumb trail indicates the path: Home > Default Directory | Enterprise applications > Enterprise applications. The main heading is 'Enterprise applications | All applications'. Below this, there are tabs for 'Overview' and 'Manage'. The 'Overview' tab is selected, showing a list of applications. The 'Manage' tab is also visible, with sub-tabs for 'All applications', 'Application proxy', 'User settings', 'App launchers', and 'Custom authentication extensions (Preview)'. The 'All applications' sub-tab is selected, displaying a table of applications. The table has columns for 'Name', 'Object ID', and 'Application ID'. Two applications are listed: 'OIDC Test 1' and 'SAML Test'.

Microsoft Azure

Search resources, services, and docs (G+/I)

Home > Default Directory | Enterprise applications > Enterprise applications

Enterprise applications | All applications

Default Directory - Microsoft Entra ID

« + New application Refresh Download (Export) Preview info Columns

Overview

Overview

Diagnose and solve problems

Manage

All applications

Application proxy

User settings

App launchers

Custom authentication extensions (Preview)

Search by application name or object ID

Application type == Enterprise Applications

2 applications found

Name	Object ID	Application ID
OT OIDC Test 1	584b0db5-b420-43b9-833a-3...	70ca3eea-d30d-4bda-8d2f-22...
ST SAML Test	5bc1a042-00bc-46c5-b06a-3c...	6659d18b-6e83-44f4-8947-40...



5 On the application overview page, in the Getting Started section, select **Set up single sign on**.

Microsoft Azure

Home > Default Directory | Enterprise applications > Enterprise applications | All applications > Browse Microsoft Entra ID Gallery >

SAML Test | Overview

Enterprise Application

Overview

Deployment Plan

Diagnose and solve problems

Manage

Properties

Owners

Roles and administrators

Users and groups

Single sign-on

Provisioning

Application proxy

Self-service

Custom security attributes

Security

Conditional Access

Permissions

Token encryption

Activity

Sign-in logs

Properties

Name

SAML Test

Application ID

6659d18b-6e83-44f4-8947-...

Object ID

5bc1a042-00bc-46c5-b06a-...

Getting Started

1. Assign users and groups

Provide specific users and groups access to the applications

[Assign users and groups](#)

2. Set up single sign on

Enable users to sign into their application using their Microsoft Entra ID credentials

[Get started](#)

5. Self service

Enable users to request access to the application using their Microsoft Entra ID credentials

[Get started](#)

6 Select **SAML**.

Microsoft Azure

Home > SAML Test

SAML Test | Single sign-on

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Single sign-on (SSO) adds security and convenience when users sign on to applications in Microsoft Entra ID by enabling a user in your organization to sign in to every application they use with only one account. Once the user logs into an application, that credential is used for all the other applications they need access to. [Learn more](#).

Select a single sign-on method [Help me decide](#)

Disabled

Single sign-on is not enabled. The user won't be able to launch the app from My Apps.

SAML

Rich and secure authentication to applications using the SAML (Security Assertion Markup Language) protocol.

Password-based

Password storage and replay using a web browser extension or mobile app.



7 In the Basic SAML Configuration section, click **Edit**.

Microsoft Azure

Home > SAML Test

### SAML Test | SAML-based Sign-on

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- Self-service
- Custom security attributes

Security

- Conditional Access
- Permissions
- Token encryption

Upload metadata file | Change single sign-on mode | Test this application | Got feedback?

#### Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experiences and is easier to implement. Choose SAML single sign-on whenever possible for existing applications that do not use OpenID Connect or OAuth. [Learn more.](#)

Read the [configuration guide](#) for help integrating SAML Test.

1

##### Basic SAML Configuration

[Edit](#)

Identifier (Entity ID)	Required
Reply URL (Assertion Consumer Service URL)	Required
Sign on URL	Optional
Relay State (Optional)	Optional
Logout Url (Optional)	Optional

2

##### Attributes & Claims

⚠ Fill out required fields in Step 1

givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.userprincipalname

8 In the Basic SAML Configuration window, do the following:

Microsoft Azure

Home > SAML Test

### SAML Test | SAML-based Sign-on

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- Provisioning
- Application proxy
- Self-service
- Custom security attributes

Security

- Conditional Access
- Permissions
- Token encryption

Activity

- Sign-in logs
- Usage & insights

Upload metadata file | Change single sign-on mode | Test this application | Got feedback?

#### Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experiences and is easier to implement. Choose SAML single sign-on whenever possible for existing applications that do not use OpenID Connect or OAuth. [Learn more.](#)

Read the [configuration guide](#) for help integrating SAML Test.

1

##### Basic SAML Configuration

[Edit](#)

Identifier (Entity ID)	Required
Reply URL (Assertion Consumer Service URL)	Required
Sign on URL	Optional
Relay State (Optional)	Optional
Logout Url (Optional)	Optional

2

##### Attributes & Claims

⚠ Fill out required fields in Step 1

givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.userprincipalname

3

##### SAML Certificates

Token signing certificate	Active	<a href="#">Edit</a>
---------------------------	--------	----------------------

#### Basic SAML Configuration

[Save](#) | [Got feedback?](#)

Identifier (Entity ID) \*

The unique ID that identifies your application to Microsoft Entra ID. This value must be unique across all applications in your Microsoft Entra tenant. The default identifier will be the audience of the SAML response for IDP-initiated SSO.

[Add identifier](#)

Reply URL (Assertion Consumer Service URL) \*

The reply URL is where the application expects to receive the authentication token. This is also referred to as the "Assertion Consumer Service" (ACS) in SAML.

[Add reply URL](#)

Sign on URL (Optional)

Sign on URL is used if you would like to perform service provider-initiated single sign-on. This value is the sign-in page URL for your application. This field is unnecessary if you want to perform identity provider-initiated single sign-on.

Enter a sign on URL

Relay State (Optional)

The Relay State instructs the application where to redirect users after authentication is completed, and the value is typically a URL or URL path that takes users to a specific location within the application.

Enter a relay state

Logout Url (Optional)

This URL is used to send the SAML logout response back to the application.

Enter a logout url



- a In the Identifier (Entity ID) section, click **Add Identifier**.
- b In the Add identifier field, depending on your location, type either of the following entity IDs:
  - For EU:  
`https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam`
  - For US:  
`https://lexmarkb2c.b2clogin.com/LexmarkB2C.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam`
- c In the Reply URL (Assertion Consumer Service URL) section, click **Add reply URL**.
- d In the Add reply URL field, depending on your location, type either of the following reply URLs:
  - For EU:  
`https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam/samlp/sso/assertionconsumer`
  - For US:  
`https://lexmarkb2c.b2clogin.com/LexmarkB2C.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam/samlp/sso/assertionconsumer`
- e Click **Save**.

Microsoft Azure

Home > Default Directory | Enterprise applications > Enterprise applications | All applications > SAML Test

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Change single sign-on mode

Test this application

Got feedback?

Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experiences and is easier to implement. Choose SAML single sign-on whenever possible for existing applications that do not use OpenID Connect or OAuth2.0.

Read the [configuration guide](#) for help integrating SAML Test.

1 Basic SAML Configuration

Identifier (Entity ID)

Reply URL (Assertion Consumer Service URL)

Sign on URL

Relay State (Optional)

Logout URL (Optional)

2 Attributes & Claims

Basic SAML Configuration

Save

Got feedback?

Identifier (Entity ID) \*

The unique ID that identifies your application to Microsoft Entra ID. This value must be unique across all applications in your Microsoft Entra tenant. The default identifier will be the audience of the SAML response for IDP-initiated SSO.

Identifier (Entity ID)	Default
https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam	<input checked="" type="checkbox"/>
https://lexmarkb2c.b2clogin.com/LexmarkB2C.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam	<input type="checkbox"/>

Add identifier

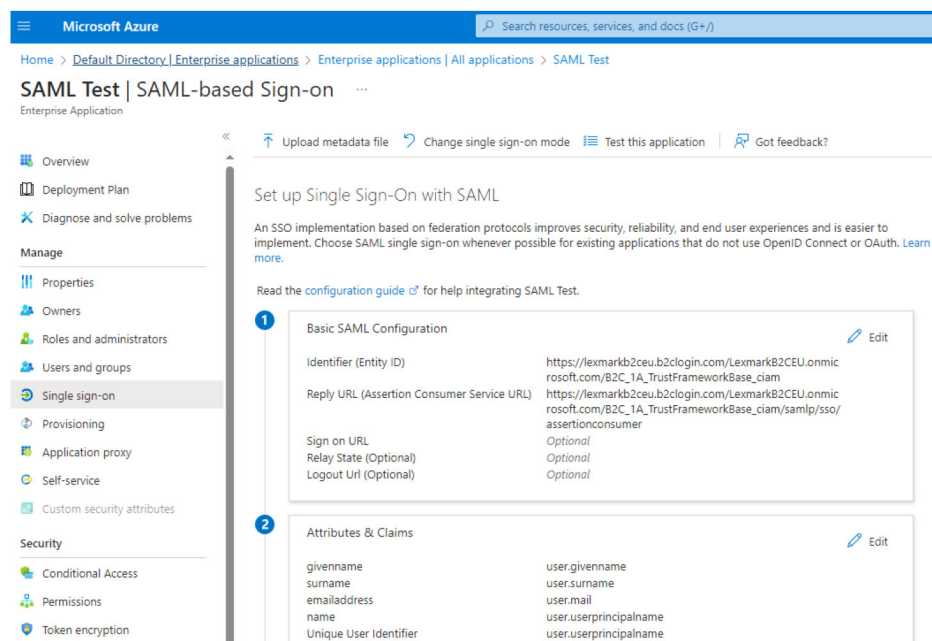
Reply URL (Assertion Consumer Service URL) \*

The reply URL is where the application expects to receive the authentication token. This is also referred to as the 'Assertion Consumer Service' (ACS) in SAML.

Reply URL	Index	Default
https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam/samlp/sso/assertionconsumer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
https://lexmarkb2c.b2clogin.com/LexmarkB2C.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam/samlp/sso/assertionconsumer	<input type="checkbox"/>	<input type="checkbox"/>

Add reply URL

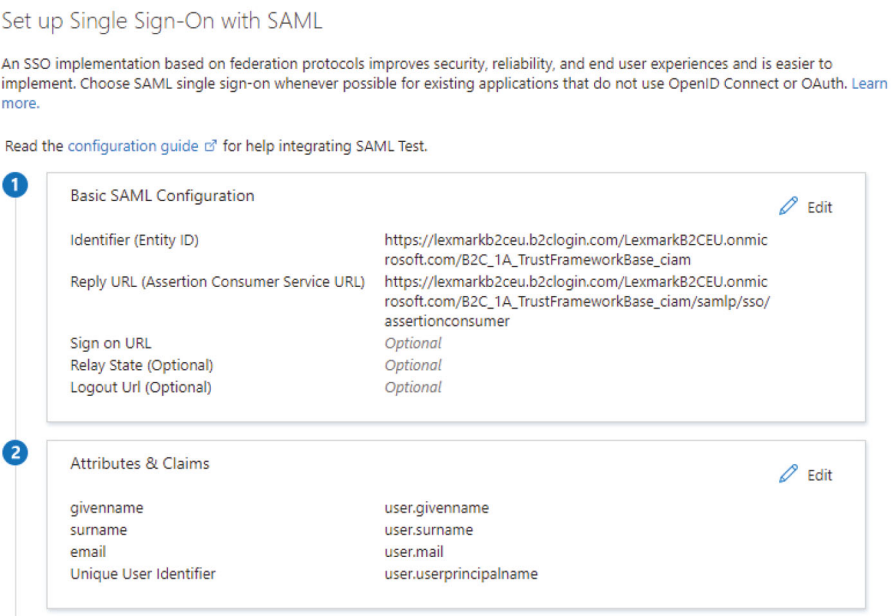




## Setting up attributes and claims

The screenshots may vary depending on the latest release

- 1 On the SAML-based Sign-on page, in the Attributes & Claims section, click **Edit**.





## 2 Click **Add new claim**.

Microsoft Azure

Search resources, services, and docs (G+/I)

Home > Default Directory | Enterprise applications > Enterprise applications | All applications > SAML Test | SAML-based Sign-on > SAML-based Sign-on >

### Attributes & Claims ...

+ Add new claim + Add a group claim Columns | Got feedback?

Required claim

Claim name	Type	Value
Unique User Identifier (Name ID)	SAML	user.userprincipalname [...] ***

Additional claims

Claim name	Type	Value
email	SAML	user.mail ***
givenname	SAML	user.givenname ***
surname	SAML	user.surname ***

Advanced settings

## 3 Configure the following:

- **Unique User Identifier (Name ID)**—user.userprincipalname

**Note:** This claim is required in Entra ID. For **Namespace**, leave the fields blank

- **Email**—user.mail
- **Givenname**—user.givenname
- **Surname**—user.surname

**Note:** These claims are required by Lexmark Cloud Services.

## Setting up optional attributes and claims

1 On the Attributes & Claims page, click **Add new claim**.

2 Select the source from where the claim retrieves the value.

**Note:** You can either select a user attribute or apply a transformation to the user attribute before setting it as a claim.

Lexmark Cloud Services supports the following optional claims:

- Department
- Cost Center
- Badge
- PIN

## Downloading certificates and copying URLs

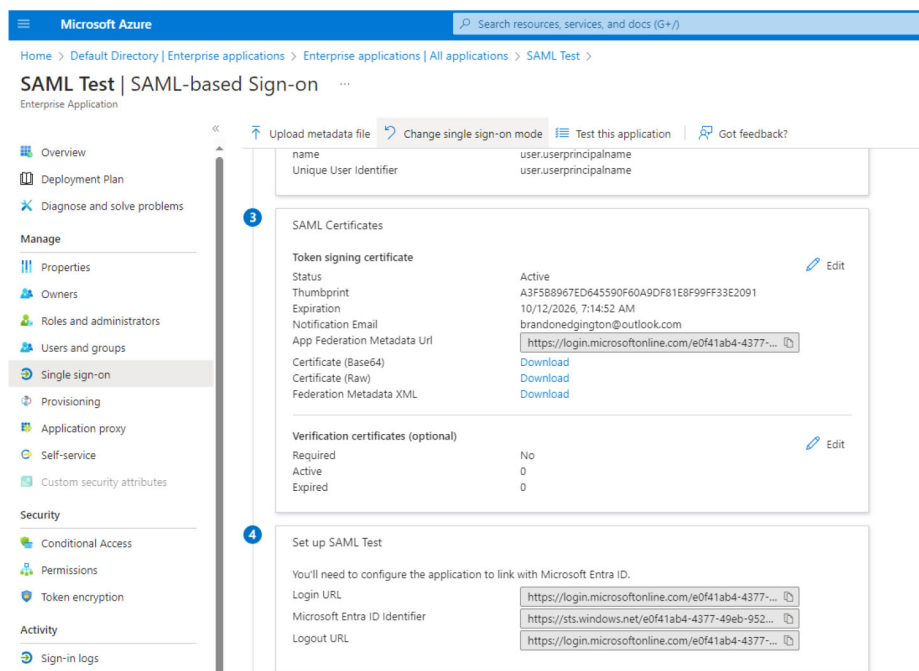
The screenshots may vary depending on the latest release.

After adding your claims, do the following steps:

- 1 On the SAML-based Sign-on page, in the SAML Certificates section, click **Download** to download the Certificate (Base64).
- 2 Copy and retain the App Federation Metadata Url.



- 3** In the application setup section, copy and retain the values for Login URL and Logout URL.



**Note:** The App Federation Metadata Url, Login URL, and Logout URL are required for configuring the Lexmark Cloud Services portal.

## Assigning groups and users

The screenshots may vary depending on the latest release

Depending on the Azure configuration, you are required to either assign users to the new enterprise application, or specify that user assignment is not required.

- 1** Select **Microsoft Azure**.
- 2** Select **Microsoft Entra ID**.
- 3** In the Manage section, click **Enterprise applications**.
- 4** Select the application that you created.



5 On the application overview page, in the Getting Started section, select **Assign users and groups**.

Microsoft Azure

Search resources, services, and docs (G+)

Home > Default Directory | Enterprise applications > Enterprise applications | All applications >

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**Properties**

Name SAML Test

Application ID 6659d18b-6e83-44f4-8947-...

Object ID 5bc1a042-00bc-46c5-b06a-...

**Getting Started**

**1. Assign users and groups**  
Provide specific users and groups access to the applications  
[Assign users and groups](#)

**2. Set up single sign on**  
Enable users to sign into their application using their Microsoft Entra ID credentials  
[Get started](#)

**5. Self service**  
Enable users to request access to the application using their Microsoft Entra ID credentials  
[Get started](#)

6 In the Manage menu, select **Properties**.

Microsoft Azure

Search resources, services, and docs (G+)

Home > SAML Test

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+ Add user/group | Edit assignment | Remove | Update credentials | Columns | Got feedback?

The application will appear for assigned users within My Apps. Set 'visible to users?' to no in properties to prevent this. →

Assign users and groups to app-roles for your application here. To create new app-roles for this application, use the [application registration](#).

First 200 shown, to search all users & gro...

Display Name	Object Type
No application assignments found	



**7** On the Properties page, in the Assignment required? section, select **Yes** or **No**.

Microsoft Azure

Home > SAML Test

## SAML Test | Properties

Enterprise Application

Save Discard Delete Got feedback?


View and manage application settings for your organization. Editing properties like display information, user sign-in settings, and user visibility settings requires Global Administrator, Cloud Application Administrator, Application Administrator roles. [Learn more.](#)

If this application resides in your tenant, you can manage additional properties on the [application registration](#).

Enabled for users to sign-in? ☒ Yes ☐ No

Name \* SAML Test ✓

Homepage URL <https://account.activedirectory.windowsazure.com:444/applications/de...>

Logo  Select a file

User access URL <https://launcher.myapps.microsoft.com/api/signin/6659d18b-6e83-44f...>

Application ID 6659d18b-6e83-44f4-8947-404d44d1ea09

Object ID 5bc1a042-00bc-46c5-b06a-3c466a3dd2eb

Terms of Service URL Publisher did not provide this information

Privacy Statement URL Publisher did not provide this information

Reply URL <https://lexmarkb2ceu.b2clogin.com/lexmarkb2ceu.onmicrosoft.com/oa...>

Assignment required? ☐ Yes ☒ No

Visible to users? ☒ Yes ☐ No

Notes

## Configuring Lexmark Cloud Services

The screenshots may vary depending on the latest release.

**1** Log in to Lexmark Cloud Services.

Lexmark

E-mail

By logging into this site you accept the [Terms of Use](#) and [Privacy Policy](#).

Next

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**2** From the navigation menu on the right side of the screen, select **Account Management**.

The screenshot shows the Lexmark Cloud Services Home dashboard. The navigation menu on the right side of the screen is open, and the 'Account Management' option is highlighted. The dashboard includes sections for Analytics, Print Management, Fleet Management, and Account Management. Below these sections are two charts: 'Printed / Deleted Pages' and 'Color / Mono Impressions'.

**Printed / Deleted Pages**

Category	Count
Deleted	20
Printed	8

*Last 30 Days - Internal Training*

**Color / Mono Impressions**

Category	Count
Color	0
B&W	8

*Last 30 Days - Internal Training*

**3** If necessary, select your organization, and then click **Next**.

The screenshot shows the 'Select Organization' screen in the Lexmark Account Management interface. It features a text input field containing 'Root (My Organization)' and a green 'Next' button.

Lexmark Account Management

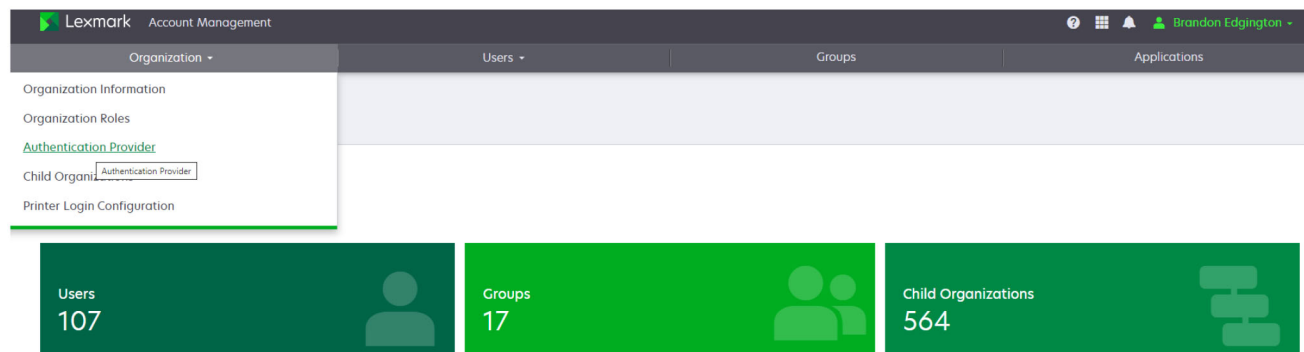
Select Organization

Root (My Organization)

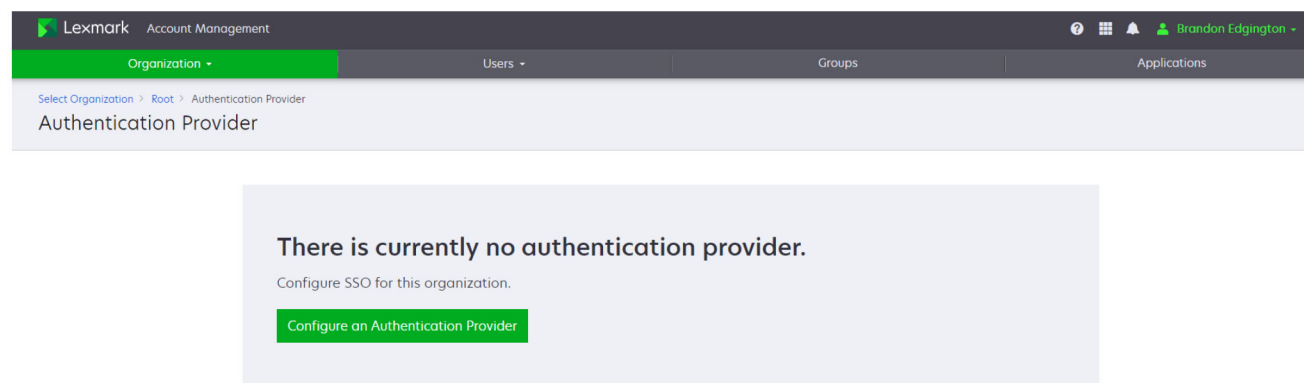
Next



4 From the Organization menu, select **Authentication Provider**.

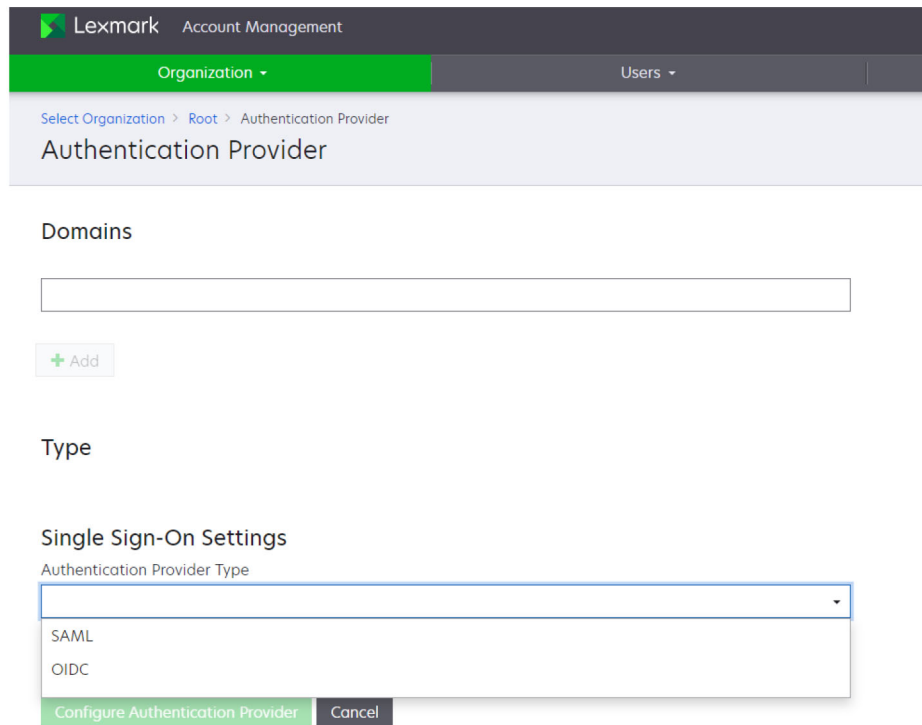


5 Click **Configure** on **Authentication Provider**.





- 6 From the Authentication Provider Type menu, select **SAML**.



Lexmark Account Management

Organization Users

Select Organization > Root > Authentication Provider

### Authentication Provider

Domains

+ Add

Type

Single Sign-On Settings

Authentication Provider Type

SAML

OIDC

Configure Authentication Provider Cancel

**Note:** The Domains field allows Lexmark Cloud Services to establish a new user account after the user logs in. Listing each organization domain is not required. If no domain is set, then the new users must be manually added to the organization before they log in.

- 7 In the SAML Authentication Provider section, select either **With Metadata URL** or **Without Metadata URL**.

**Note:** We recommend selecting With Metadata URL for a shorter process.



## With Metadata URL

- a** In the SAML Authentication Provider section, select **With Metadata URL**.

The screenshot shows the Lexmark Account Management interface. The top navigation bar includes the Lexmark logo and 'Account Management'. Below this, there are tabs for 'Organization' (selected) and 'Users'. The breadcrumb trail indicates the path: 'Select Organization > Root > Authentication Provider'. The main heading is 'Authentication Provider'. Under 'Domains', there is an empty text input field and a '+ Add' button. The 'Type' section shows 'SAML'. The 'Sub-Type' section shows 'With Metadata URL'. The 'Single Sign-On Settings' section includes a dropdown for 'Authentication Provider Type' set to 'SAML'. Below this, the 'SAML Authentication Provider' section has two radio buttons: 'With Metadata URL' (selected) and 'Without Metadata URL'. The 'SAML Metadata URL (Required)' field contains the URL 'https://login.microsoftonline.com/e0f41ab4-4377-49eb-9521-53dd7371f1ca/federationmetadata/2007-06/fed'. A small note below the field states: 'The SAML Metadata URL used to login to SSO provider.' At the bottom, there are two buttons: 'Configure Authentication Provider' (highlighted in green) and 'Cancel'.

- b** In the SAML Metadata URL (Required) field, paste the App Federation Metadata Url that you have previously copied and retained.

**Note:** For more information on App Federation Metadata Url, see [“Downloading certificates and copying URLs” on page 274](#).

- c** Click **Configure Authentication Provider**.



## Without Metadata URL

- a** In the SAML Authentication Provider section, select **Without Metadata URL**.

Single Sign-On Settings

Authentication Provider Type

SAML

SAML Authentication Provider

☐ With Metadata URL ☒ Without Metadata URL

Identity provider entity ID (Required)

The URL of the identity provider.

SSO target URL (Required)

The ACS URL used to log in to the SSO provider.

SSO Logout URL (Required)

SSO name identifier format (Required)

E-mail address

Certificate (Required)

Configure Authentication Provider Cancel

- b** In the Identity provider entity ID (Required) field, depending on your location, type either of the following:

- For EU:  
**`https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam`**
- For US:  
**`https://lexmarkb2c.b2clogin.com/LexmarkB2C.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam`**

**Note:** The URLs must be same to the URLs entered in Microsoft Entra ID.

- c** Enter the required information copied from Azure AD:

- SSO target URL (Required)
- SSO Logout URL (Required)
- Certificate (Required)

**Note:** Make sure that you include the header and the footer for the certificate.

- d** Click **Configure Authentication Provider**.

**Note:** Make sure that you do not exit the Lexmark Cloud Services portal or allow the portal to time out. It is time to test your SAML connection, and you may be unable to log in to correct any problems discovered during testing. For more information on testing the federation, see [“Testing a federation” on page 283](#).



## Testing a federation

The screenshots may vary depending on the latest release.

**Note:** Do not log out or close the current browser until the federation is successfully set up.

- 1 From the same workstation, open a new browser window.

**Note:** The browser should be opened in either private or incognito mode.

- 2 From a different workstation, open a new browser window.
- 3 Log in to Lexmark Cloud Services from either workstation.



- 4 Depending on your location, use either of these URLs:

- For EU:  
**`https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam`**
- For US:  
**`https://lexmarkb2c.b2clogin.com/LexmarkB2C.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam`**

**Note:** The user is prompted to log in to Azure rather than to Lexmark Cloud Services.

- 5 Check their My Account page to verify the details.



## Partner administrator

Partner administrators can use the Account Management web portal to create child organizations.

### Creating an organization

Partner administrators can set up their customer's environment using the Child Organizations feature.

**Note:** The Partner Administrator role is required in creating child organizations.

- 1 From the Account Management web portal, select the parent organization.
- 2 Click **Create**, and then type a unique organization name.

**Note:** Special characters are not supported.

- 3 Click **Create Child Organization**.

### Deleting organizations

Deleting an organization deletes all the users, groups, applications, and badges that are associated with the organization.

- 1 From the Account Management web portal, select the parent organization.
- 2 Select a child organization.

**Notes:**

- You can delete only one child organization at a time. Use this feature with caution. When you delete an organization, all the users, groups, applications and badges that are associated with the organization are also deleted.
- You can also search for child organizations using the search bar.

- 3 Click **Delete**.
- 4 Click **Continue**.

## Managing printer logins

### Configuring printer login

The Account Management web portal lets you configure the user authentication settings of the printers enrolled in your organization. Changing the settings in the Account Management web portal overrides the authentication settings that are configured on the printers.

- 1 From the Account Management web portal, click **Organization > Printer Login Configurations**.
- 2 From the Printer Login Configurations section, do either of the following:

**Configure the standard authentication**

You can set the printers to authenticate users using their permanent or temporary badge, a PIN, or user credentials.



Click **Standard authentication**, and then select one or more of the following:

- **Badge**—Authenticate users using their permanent or temporary badge.
- **PIN**—Authenticate users using a PIN.
- **Secure Login**—Authenticate users using their user credentials.

### Configure Badge + PIN as second factor

You can configure the printers to authenticate users using both their permanent or temporary badge and a PIN.

- Click **Badge + PIN as second factor**.
- From the PIN Details section, configure the PIN details.
- If necessary, to let users log in to the printers using their user credentials, select **Secure Login**.

**3** Click **Save Changes**.

### Configuring the PIN settings

**1** From the Organization PIN Details section, do any of the following:

- **Specify the PIN length**
- **Select a PIN generation option**
  - **Automatically generate and email**—An automatically generated PIN is sent to the user's e-mail address.  
If this setting is enabled, then when you import users, the system generates their PIN automatically.
  - **Administrator manually set**—You can set the PIN manually from the Account Management web portal.  
For more information, see [“Managing users” on page 246](#).  
You can also import the PINs using a CSV or text file. For more information, see [“Managing PINs” on page 287](#).
  - **User set**—Users can set their own PIN manually.
- **Set the PIN expiration**

**Note:** This feature is available only when the PIN generation option is set to Administrator manually set or User set.

- **Never expires**—The default setting for the PIN expiration.
- **Expires after**—Set the number of hours or days that the PIN can be used.

**2** Click **Save Changes**.

### Obtaining secure login code

**1** Open a web browser, and then type the address of Lexmark Cloud Services server.

**Note:** Depending on the location of the data center, go to either <https://us.iss.lexmark.com> or <https://eu.iss.lexmark.com>.

**2** Log in to the Lexmark Cloud Services website.



- 3** In the browser address field, replace the web address **https://<env>.iss.lexmark.com** with **https://<env>.iss.lexmark.com/device**.

**Note:** Depending on the location of the data center, **<env>** can be either **us** or **eu**. To determine the value of **<env>**, see the address on the browser address field.

**Notes:**

- The secure login code appears on the Generate Login Code page.
- You can click **Refresh** to refresh the code. The login code automatically refreshes after every 15 minutes.
- Use this login code to log into the printer. The login code cannot be reused.

## Managing badges

The Account Management web portal lets administrators register badges to the system. If badges are not registered using the Account Management web portal, then users must register their badge when they first log in to the printer.

Organization administrators and user administrators can register a permanent or temporary badge on behalf of a user.

- 1** From the Account Management web portal, click **Users > Manage Badge/PIN**.

- 2** Do any of the following:

### Register a badge

- a** From the Badges tab, click **Register Badge** or **Register**, and then type the user e-mail address, badge ID, and description.

**Notes:**

- To make the badge ID visible, select **Show badge ID**.
- To register the badge as temporary, select **Temporary Badge**. Temporary badges expire after 24 hours.
- Federated users who have their badge numbers in the Active Directory are not prompted to register their badge.

- b** Click **Register Badge**.

### Delete badges

- a** Select one or more badges, and then click **Delete**.

**Note:** You can also search for badges using the search bar. Make sure to type the complete e-mail address or badge ID.

- b** Click **Delete Badges**.

### Import badges

For information on creating a CSV file, see [“Sample CSV formats” on page 287](#).

- a** Click **Import Badges** or **Import**, and then browse to the CSV or TXT file.

- b** Click **Import Badges**.

**Note:** You can also register or delete badges for users. For more information, see [“Managing users” on page 246](#).



## Managing PINs

Depending on the printer login configuration, organization administrators and user administrators can generate, delete, or import PINs on behalf of the users.

### Notes:

- To access the Printer Login Configuration page, from the Account Management web portal, select an organization, and then click **Organization > Printer Login Configuration**.
- If the PIN generation option is set to **Automatically generate and email**, then click **Generate PIN**. An automatically generated PIN is sent to the user's e-mail address.
- If the PIN generation option is set to **Administrator manually set**, then enter the PIN, and then click **Generate PIN**.

**1** From the Account Management web portal, select an organization.

**2** Click **Users > Manage Badge/PIN**.

**3** From the PINs tab, do any of the following:

#### Generate a PIN

- a** Click **Generate**, and then type the user e-mail address.
- b** Click **Generate PIN**.

#### Delete PINs

- a** Select one or more users, and then click **Delete**.
- b** Click **Delete PINs**.

#### Import PINs

For information on creating a CSV file, see [“Sample CSV formats” on page 287](#).

- a** Click **Import PINs** or **Import**, and then browse to the CSV or TXT file.
- b** Click **Import PINs**.

**Note:** The user accounts must exist before their PINs can be imported.

## Sample CSV formats

Depending on the printer login configuration, the CSV format can be any of the following:

### Badge only

```
BADGE, OPERATION, EMAIL, TEMPORARY, PIN
20171a, CREATE, jdoe@company.com, true,
20172b, CREATE, llane@company.com, true,
20173c, DELETE, ckent@company.com, false,
```

### PIN only

```
BADGE, OPERATION, EMAIL, TEMPORARY, PIN
, CREATE, jdoe@company.com, , 123456
, CREATE, llane@company.com, , 234567
, DELETE, ckent@company.com, , 345678
```



## Badge and PIN

```
BADGE, OPERATION, EMAIL, TEMPORARY, PIN
20171a, CREATE, jdoe@company.com, true, 123456
20172b, CREATE, llane@company.com, true, 234567
20173c, DELETE, ckent@company.com, false, 345678
```

You can also change the order of the operations. For example, PIN only can be formatted as:

### PIN only

```
PIN, OPERATION, EMAIL, BADGE, TEMPORARY
123456, CREATE, jdoe@company.com, ,
234567, CREATE, llane@company.com, ,
345678, DELETE, ckent@company.com, ,
```

## Line values and their conditions

- **BADGE**—The badge ID of the user. If a BADGE value contains commas, then the value must be enclosed in double quotation marks. For example, **"20171a, 2a, 3a"**  
The value must not be empty when the printer login is set to **Badge Login** or **Badge + PIN as second factor**.
- **OPERATION**—Required for all badges and PINs.

### Valid OPERATION values

- **CREATE**—Creates a badge identified by the BADGE value for the user specified by the EMAIL value.
- **DELETE**—Deletes the existing badge identified by the BADGE value.
- **EMAIL**—Required for the CREATE operation. Badge import does not create a user. The user must exist before a badge can be created. EMAIL values that are in uppercase are converted to lowercase before the operation is performed. For example, **JDOE@company.com** is converted to **jdoe@company.com**.
- **TEMPORARY**—Determines whether the badge is temporary or permanent. The TEMPORARY value is either **true** or **false**.
- **PIN**—The PIN of the user. The value must not be empty when the printer login is set to **PIN Login** or **Badge + PIN as second factor**.

### Notes:

- All lines must have the same number of values as the header, including the commas. For example, **20171a, DELETE,**
- The file size must not exceed 1MB.



# Fleet Management

## Overview

**Note:** The screenshots may vary depending on the latest release.

Cloud Fleet Management offers remote device monitoring and management. It minimizes disruption and eliminates estimations in maintaining a well-running fleet. Cloud Fleet Management automatically collects page counts, toner levels, and supplies status to provide a comprehensive view of your devices and how they are performing. It also lets you view device information and receive communications directly through the Cloud Fleet Management web portal. Calling and reporting meter readings or low supplies is unnecessary.

Printers must be enrolled in the Lexmark Cloud Services website before you can manage them. To enroll printers, you can use the Fleet Agent, Native Agent, Local Agent, or Printer Agent. The Native Agent is a firmware agent that allows Lexmark printers to communicate with Lexmark Cloud Services. The Fleet Agent is an application that runs on a server in the customer network. The Local Agent is an application that runs on a host computer. This agent type is used to enroll USB-connected printers. The Printer Agent is an eSF application that runs on a printer.

## Choosing an agent

Select one or more agents that fit the environment of your organization and the printers to manage from the following:

### Fleet Agent

The Fleet Agent is an application that is configured and installed on an on-site server or host computer with high availability. It enrolls one or more printers from Lexmark and third-party manufacturers in Lexmark Cloud Services.

- Requires a stable server or host computer with a constant Internet connection.
- Supports data collection from all Lexmark printers. For more information, see [“Supported printer models” on page 30](#).
- Supports configuration for Lexmark printers with eSF version 2.0 or later.
- Supports data collection only for third-party printers.
- The Fleet Agent scans the printers according to the interval set in the Refresh Printer Information Task setting of the Scheduled Tasks section. The data is sent to the Lexmark Cloud Services server only if there is an alert change or toner level decrement. The data is not sent to the cloud server if there is only a page count change. However, even if there are no alert changes or page count changes, the data is sent to the cloud server once every 24 hours.

### Native Agent

The Native Agent is a firmware agent that allows Lexmark Internet of Things (IoT)–ready printers to communicate with Lexmark Cloud Services. When enabled, it can enroll the Lexmark printer in Lexmark Cloud Services.

- Supports data collection and configuration for Lexmark IoT-ready printers. For more information on supported printer models, see the [“Supported printer models” on page 30](#).
- Make sure that the printer firmware version is 075.272 or later.
- Other printer applications and on-site software installations are not required.



- Enroll printers using the following:
  - Printer Enrollment Tool (PET)
  - Cloud-based pre-enrollment
  - Printer-based enrollment
- To enroll multiple printers with native agents simultaneously, use the Printer Enrollment Tool (PET). A pre-enrollment option is also available.

### Printer Agent

The Printer Agent is an application configured and installed on a Lexmark printer to enroll that printer in Lexmark Cloud Services.

- Requires running the Printer Enrollment Tool in a network-connected computer to discover and enroll printers.
- Supports data collection and configuration in Lexmark printers with eSF version 3.0 or later (touch-screen models). For more information on supported printer models, see the [“Supported printer models” on page 30](#).

### Local Agent

The Local Agent is an application configured and installed on a host computer to enroll USB-connected printers in Lexmark Cloud Services.

- Supports data collection of the enrolled printers.
- Configuration deployment is not supported in printers enrolled through Local Agent.
- Does not support printer firmware update from Lexmark Cloud Services.
- Does not support reporting devices in Analytics.

### Notes:

- You cannot delete or deactivate an agent that is associated with printers that are enrolled in MPS Express or pending enrollment.
- If managing Lexmark printers with eSF version 3.0 or later (touch-screen models), then use either the Printer Agent or the Fleet Agent.
- If managing touch-screen or non-touch-screen models with firmware version 075.272 or later, then you can use Native Agent.
- If managing a group of Lexmark printers that include models that the Printer Agent, and Native Agent do not support, then use the Fleet Agent.
- If managing a group of Lexmark and third-party printers, then use the Fleet Agent.
- In the printer listing page, you can filter printers based on agent type.
- You can use only one agent to manage a printer.
- You can use the Native Agent, Fleet Agent, Printer Agent, and Local Agent to manage your fleet of printers. However, multiple agents cannot manage a printer at the same time.
- Local Agent supports Lexmark printers only.
- Local Agent can be installed in the Microsoft Windows operating system only.




## Accessing the Fleet Management web portal

Open a web browser, access the Lexmark Cloud Services dashboard, and then do either of the following:

- From the dashboard, click the **Fleet Management** card.

**Note:** If the card is not available in the dashboard, then add the card. For more information, see [“Managing the dashboard” on page 23](#).

- From your current web portal, click  on the upper-right corner of the page, and then click **Fleet Management**.

## Understanding the Agents tab

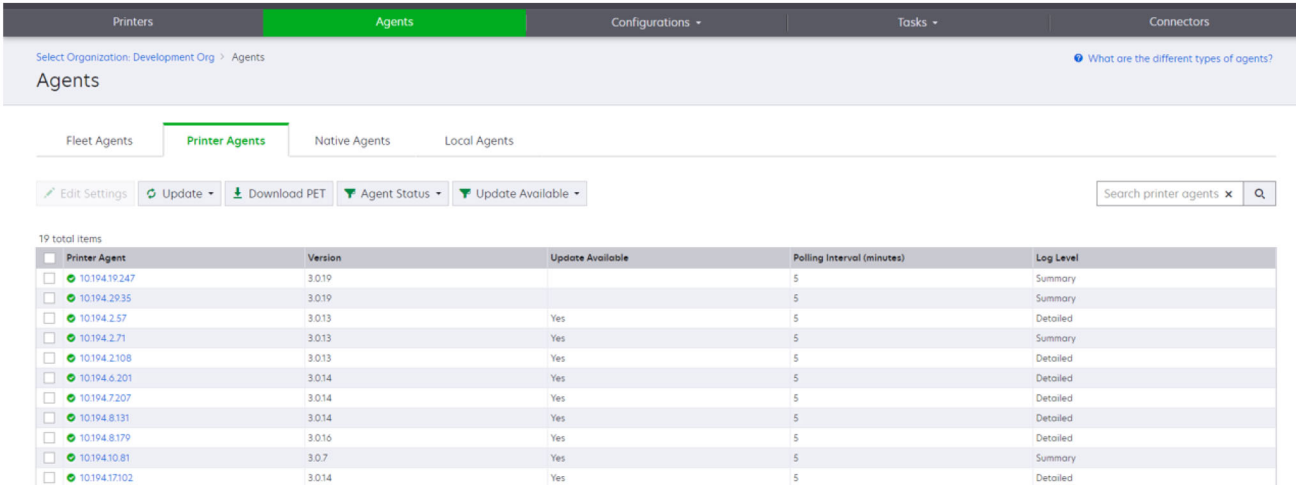
The Agents tab of the Fleet Management portal lets you manage the agents that you use to discover and enroll printers in Lexmark Cloud Services.

The Agents tab has three sections.

- Printer Agents**—Use this section to manage the Printer Agents that run on your printers.
- Fleet Agents**—Use this section to manage the Fleet Agents that run on a server or host computer.
- Native Agents**—Use this section to manage the Native Agents.
- Local Agents**—Use this section to manage the Local Agents.

### Managing the Printer Agents section

- From the Fleet Management web portal, select an organization.
- Click **Agents > Printer Agents**.



Printer Agent	Version	Update Available	Polling Interval (minutes)	Log Level
<input type="checkbox"/> 10194.19.247	3.0.19		5	Summary
<input type="checkbox"/> 10194.29.35	3.0.19		5	Summary
<input type="checkbox"/> 10194.2.57	3.0.13	Yes	5	Detailed
<input type="checkbox"/> 10194.2.71	3.0.13	Yes	5	Summary
<input type="checkbox"/> 10194.2.108	3.0.13	Yes	5	Detailed
<input type="checkbox"/> 10194.6.201	3.0.14	Yes	5	Detailed
<input type="checkbox"/> 10194.7.207	3.0.14	Yes	5	Detailed
<input type="checkbox"/> 10194.8.131	3.0.14	Yes	5	Detailed
<input type="checkbox"/> 10194.8.179	3.0.16	Yes	5	Detailed
<input type="checkbox"/> 10194.10.81	3.0.7	Yes	5	Summary
<input type="checkbox"/> 10194.17.102	3.0.14	Yes	5	Detailed

- Do one or more of the following:

**Note:** If no printer is enrolled, then enroll printers using the Printer Enrollment Tool. For more information, see [“Enrolling printers using the Printer Enrollment Tool” on page 303](#).



- To edit the agent settings, select an agent, and then click **Edit Settings**.
- To update the Printer Agent, select an agent, and then click **Update > Update agent version**.

**Note:** We recommend updating the Printer Agent to the current version to support all Cloud Fleet Management features.

- To update the printer administrator credentials for the agent, select an agent, and then click **Update > Update agent access credentials**.

**Notes:**

- This setting is also available when enrolling printers. For more information, see [“Enrolling printers using the Printer Enrollment Tool” on page 303](#).
- You can also update the agent credentials using the Embedded Web Server. For more information, see [“Accessing the Printer Agent” on page 304](#).
- To download the Printer Enrollment Tool, click **Download PET**.
- To view printer agents with a specific status, click **Agent Status**, and then select a status filter.
- To view printer agents that require version update, click **Update Available > Yes**.

## Managing the Fleet Agents section

**1** From the Fleet Management web portal, select an organization.

**2** Click **Agents > Fleet Agents**.

Fleet Agent	Activation Status	Enrolled Printers	Agent Version	Agent Update	Library Version	Library Update
matts-house	Activated	2	1.2.35	Yes	1.2.66	Yes
Sandeeps agent	Activated	20	1.2.35	Yes	1.2.66	Yes

**3** Do one or more of the following:

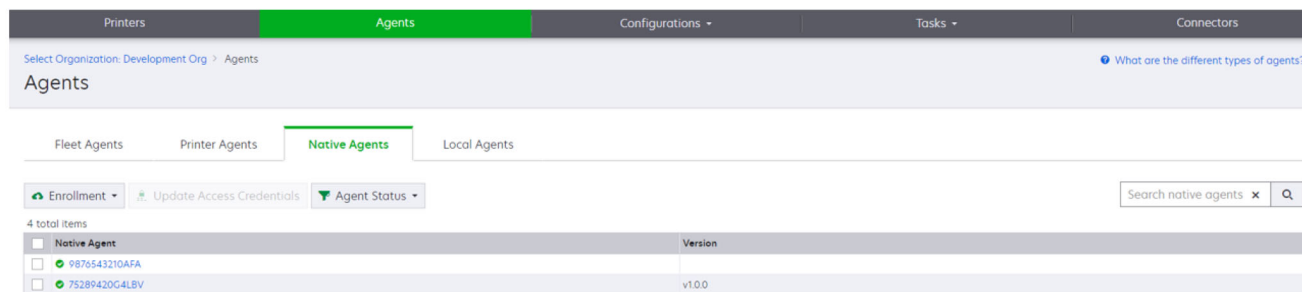
**Note:** If no agent is listed, then create a Fleet Agent. For more information, see [“Creating a Fleet Agent” on page 305](#).

- To create another Fleet Agent, click **Create Fleet Agent**.
- To change the settings of a Fleet Agent, click the name of the Fleet Agent.
- To update the Fleet Agent in your server, select a Fleet Agent, and then click **Update > Fleet Agent**.
- To update the Fleet Agent with the latest supported printers, select a Fleet Agent, and then click **Update > Printer support library**.
- To view Fleet Agents with a specific status, click **Agent Status**, and then select a status filter.
- To view Fleet Agents that require update, click **Agent Update > Yes**.
- To view Fleet Agents that require supported printers library update, click **Library Update > Yes**.



## Managing the Native Agents section

1 From the Fleet Management web portal, click **Agents > Native Agents**.



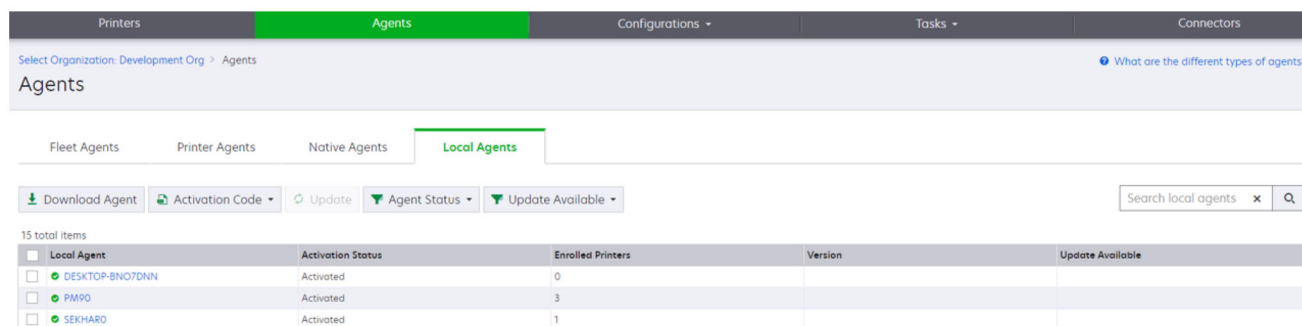
2 Do one or more of the following:

**Note:** If no agent is listed, then enroll printers. Depending on the firmware version, enroll printers using either the Printer Enrollment Tool or the Native Agent enrollment process. For more information, see either [“Enrolling printers using the Printer Enrollment Tool” on page 303](#) or [“Using the Native Agent” on page 309](#).

- To enroll a supported printer with a printer-generated enrollment code, click **Enrollment > Enroll Printer**, and then type the enrollment code.
- To pre-enroll a supported printer, click **Enrollment > Pre-enroll > Pre-enroll printers**.
  - To view the enrollment code, click **Enrollment > Pre-enroll**.
- **Note:** Lexmark Cloud Services assigns one pre-enrollment code for your fleet.
- To update the printer administrator credentials, select a printer, and then click **Update Access Credentials**.
- To view Native Agents with a specific status, click **Agent Status**, and then select a status filter.

## Managing the Local Agents section

1 From the Fleet Management web portal, click **Agents > Local Agents**.



2 Do one or more of the following:

**Note:** If no local agent is listed, then download, install, and activate it.

- To view the activation code, click **Activation Code > Generate activation code**.
  - **Note:** You can set the number of agents that can be code-activated.
- To filter local agents based on their status, click **Agent Status**, and then select a status.



- To identify local agents that have available updates, click **Updates Available > Yes**.
- To update a local agent, select the agent, and click **Update**.

## Updating agents for multiple organizations

The Agents tab of the Fleet Management portal also lets you update Printer Agents, Fleet Agents, and Local Agents across multiple organizations. If you have the Fleet Management Administrator role in all partner organizations and have child organization access, then you can update agents across multiple organizations.

**Note:** You cannot include Native Agents while updating agents across multiple organizations.

To update one or more types of agents across multiple organizations, do the following:

- 1 From the Fleet Management web portal, select **All organizations**, and then click **Next**.
- 2 Click the **Agents** tab.
- 3 Click the various types of agents tab as required, and then select one or more agents from each of the types.

**Notes:**

- Updating agents across all organizations is not supported for Native Agents.
- On the agents page, in the Organization column, you can view the organization to which each of the agents belong to.

- 4 Click **Update**.

**Note:** On updating agents across multiple organizations, it creates a bulk action task. For such bulk action tasks, the task status page shows Multiple in the Organization column. On clicking the Task ID of a bulk action task, you can view the page listing with all the printers, their respective organization, and their single organization Task ID.

## Updating applications for all organizations

- 1 From the Fleet Management web portal, select **All organizations**, and then click **Next**.
- 2 From the printer listing page, select **Communicating**.

**Note:** A list of all printers communicating from all the organizations appears.

- 3 Select the IP address of all the connected printers, and then click **Apps**.
- 4 Update the applications.
- 5 To check the status of the update, click the Task tab.

**Note:** You can filter the list of organizations and track the specific tasks for each organization.

## Updating the firmware for all organizations

- 1 From the Fleet Management web portal, select **All organizations**, and then click **Next**.
- 2 From the printers tab, click **filter**, and then select **Firmware Update**.
- 3 From the list of printers, select **Communicating**.



**4** From the list of printers, select the IP address of all the connected printers, and then click **Configure**.

**5** Select **Update Firmware**.

**Note:** You can choose when the firmware update starts. You can start it immediately or schedule it.

**6** To check the status of the update, click the **Task** tab.

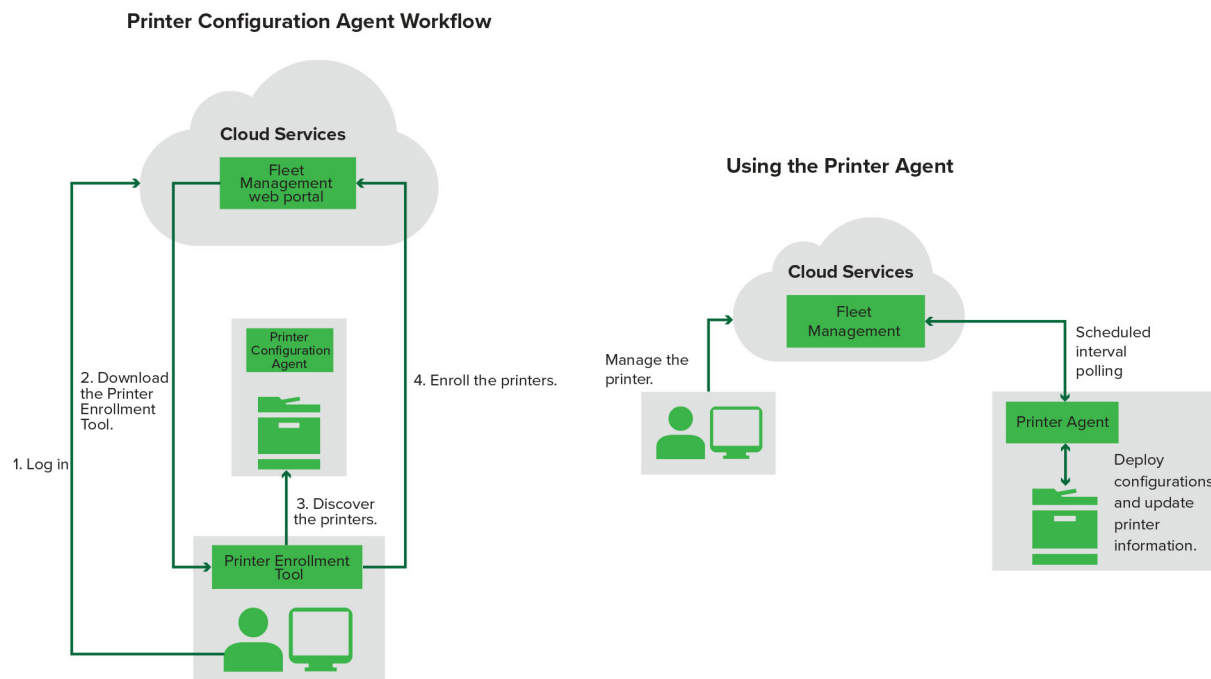
**Notes:**

- You can filter the list of organizations and track the specific tasks for each organization.
- Updating agents across multiple organizations creates a bulk action task. For such bulk action tasks, the task status page shows Multiple in the Organization column. Click the task ID of a bulk action task to view the page listing with all the printers, their respective organizations, and their single-organization task ID.

## Adding printers

### Implementation outline

The following workflow shows the general process for setting up printers in the Fleet Management web portal:



### Using the Printer Enrollment Tool

- 1** Log in to the Lexmark Cloud Services website.
- 2** Download and run the Printer Enrollment Tool.
- 3** Discover the printers in your network.

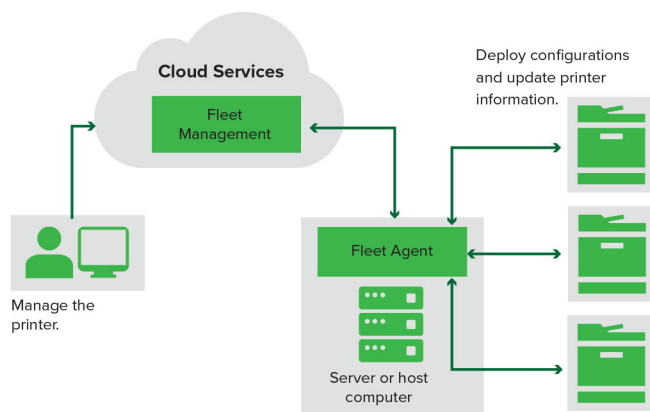


- 4 Enroll the printers.
- 5 The printers are shown in the Fleet Management web portal.

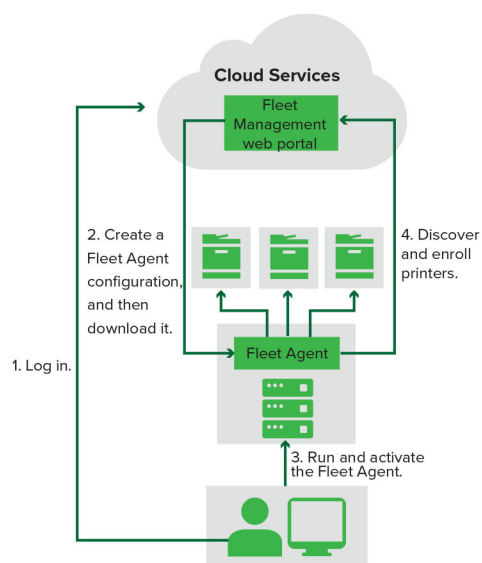
**Notes:**

- For printers with firmware version 074.xx or earlier, the system installs the Printer Agent application in the printer. The Printer Agent polls the Lexmark Cloud Services website regularly to monitor configuration changes or other requests.
- For printers with firmware version 075.xx or later, the system uses the Native Agent to communicate with Lexmark Cloud Services.
- For more information on the firmware version, see [“Viewing the printer firmware version” on page 48](#).

**Using the Fleet Agent**



**Fleet Agent Workflow**

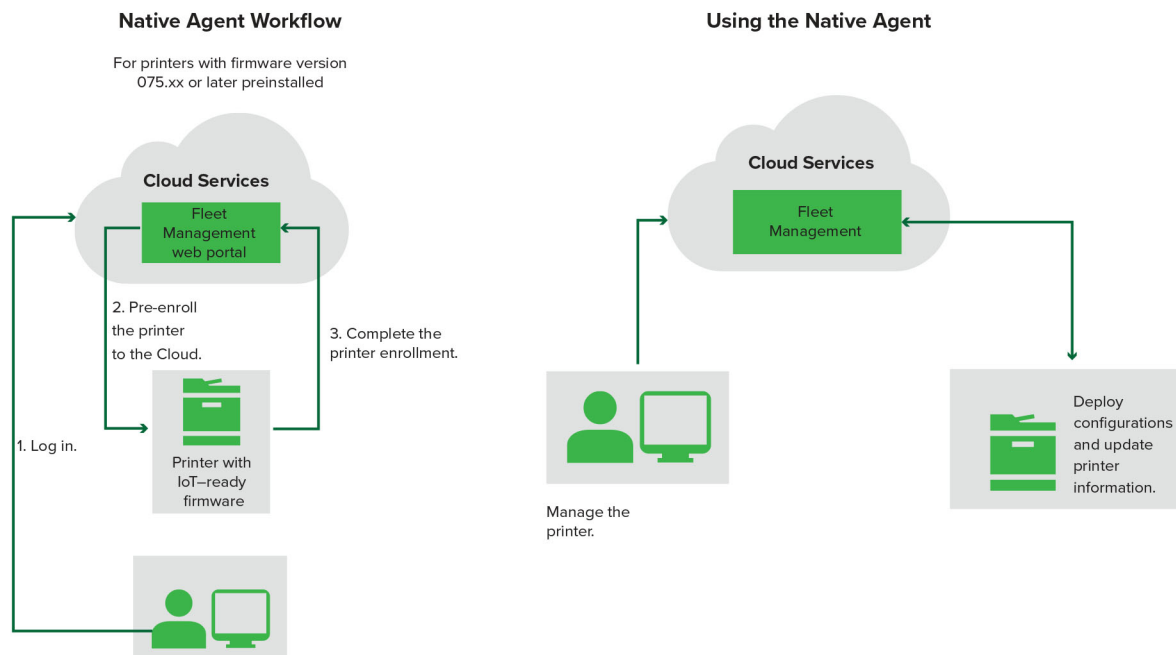


**Using the Fleet Agent**

- 1 Log in to the Lexmark Cloud Services website.
- 2 Create a Fleet Agent, and then download it.
- 3 Run and activate the Fleet Agent.
- 4 Discover and enroll printers.

**Note:** The Fleet Agent uses an open connection to Lexmark Cloud Services.





## Using the Native Agent

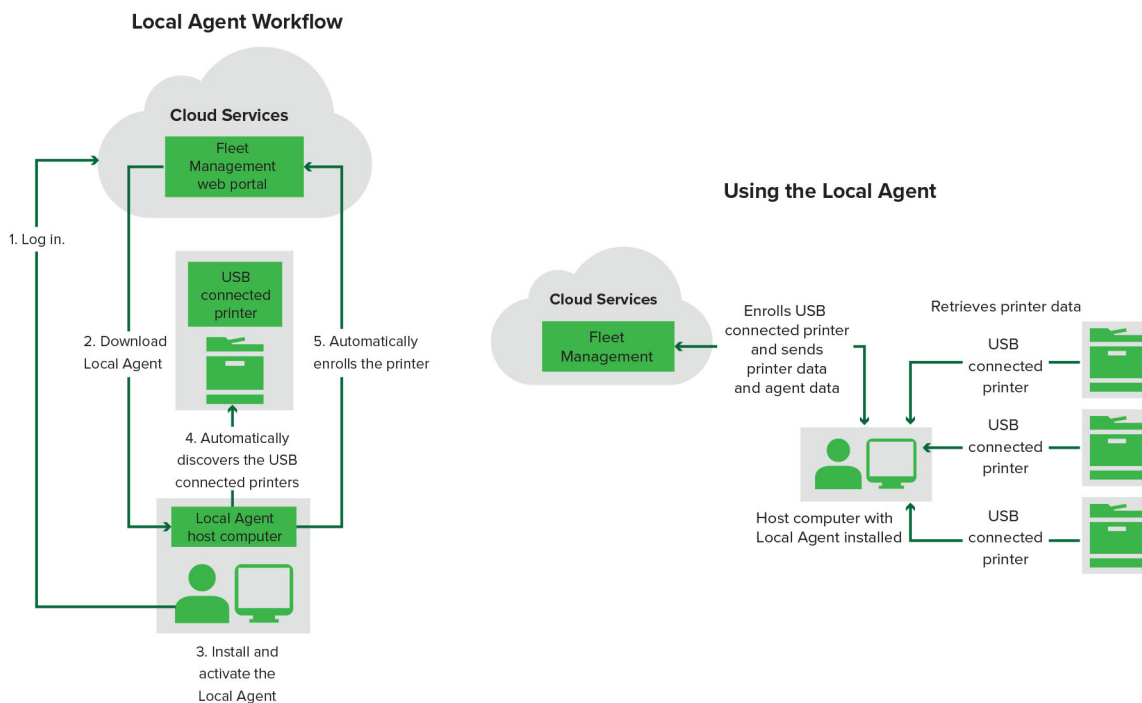
**Note:** This workflow applies only to supported printers with firmware version 075.xx or later preinstalled in the factory. Printers manufactured in late 2019 or later that are not preinstalled with version 075.xx in the factory must be later upgraded to version 075.xx or later. For more information on supported printer models, see [“Supported printer models” on page 30](#).

- 1** Log in to the Lexmark Cloud Services website.
- 2** Pre-enroll the printers.
- 3** From the Embedded Web Server or the printer control panel, enter the enrollment code to complete the enrollment.

### Notes:

- One enrollment code per organization is assigned for all supported printers.
- To skip the pre-enrollment process, obtain the enrollment code from the Embedded Web Server. For more information, see [“Enrolling printers from the Embedded Web Server” on page 312](#).





## Using the Local Agent

- 1 Log in to the Lexmark Cloud Services website.
- 2 Download the Local Agent.
- 3 Run and install the Local Agent.
- 4 Get the activation code from the Lexmark Cloud Services website and activate the Local Agent.

**Note:** When installed and activated, the Local Agent automatically enrolls the printers connected through USB.

After enrollment, the enrolled printers are listed on the Fleet Management web portal home page. The IP addresses appearing on the Fleet Management home page are the IP addresses of the host computers.

From the Fleet Management web portal, you can create and deploy printer configurations, view printer information, and request printer logs.

**Note:** You cannot create and deploy configurations, and request printer logs for printers enrolled through Local Agent.

## Using the Printer Enrollment Tool

### Downloading the Printer Enrollment Tool

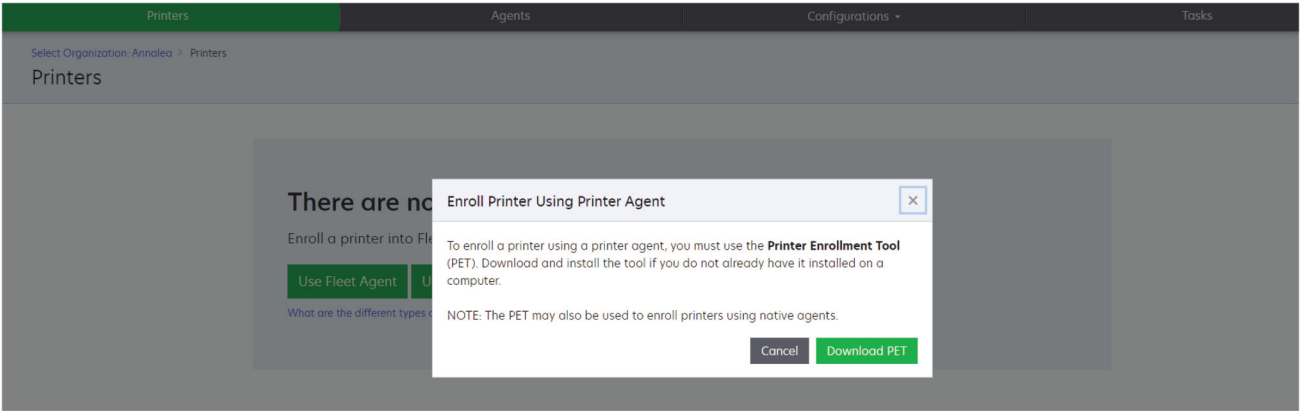
Use the Printer Enrollment Tool (PET) to discover and enroll printers in the Lexmark Cloud Services website. Depending on the printer firmware version, the PET installs the Printer Agent application in the printer or uses the Native Agent.

- 1 From the Fleet Management web portal, do one of the following:

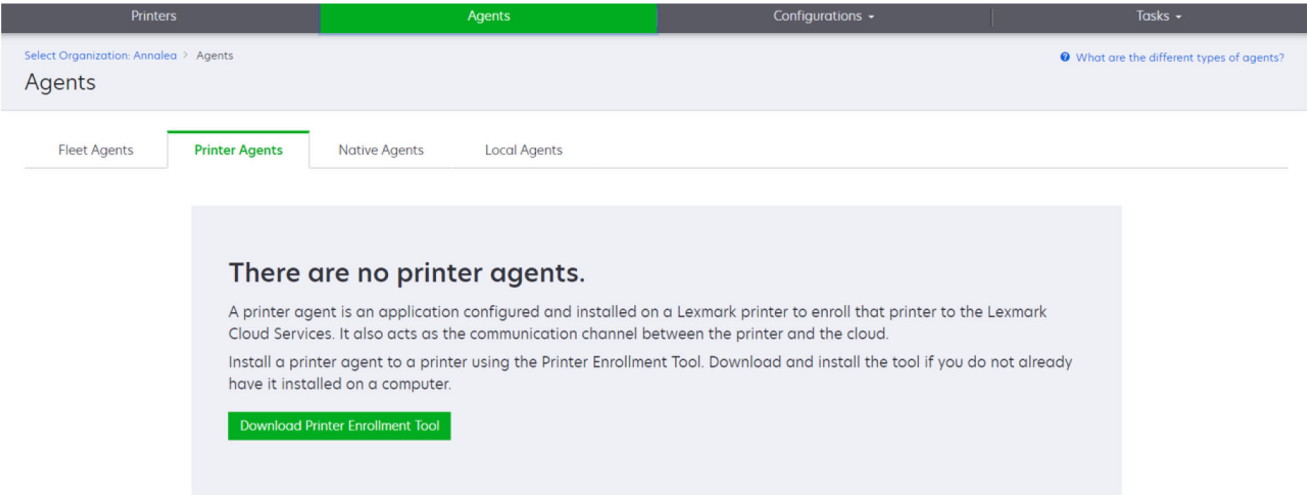


If you are enrolling devices in Lexmark Cloud Services for the first time, then you can download the PET by following the steps:

- Click **Use Printer Agent > Download PET**.

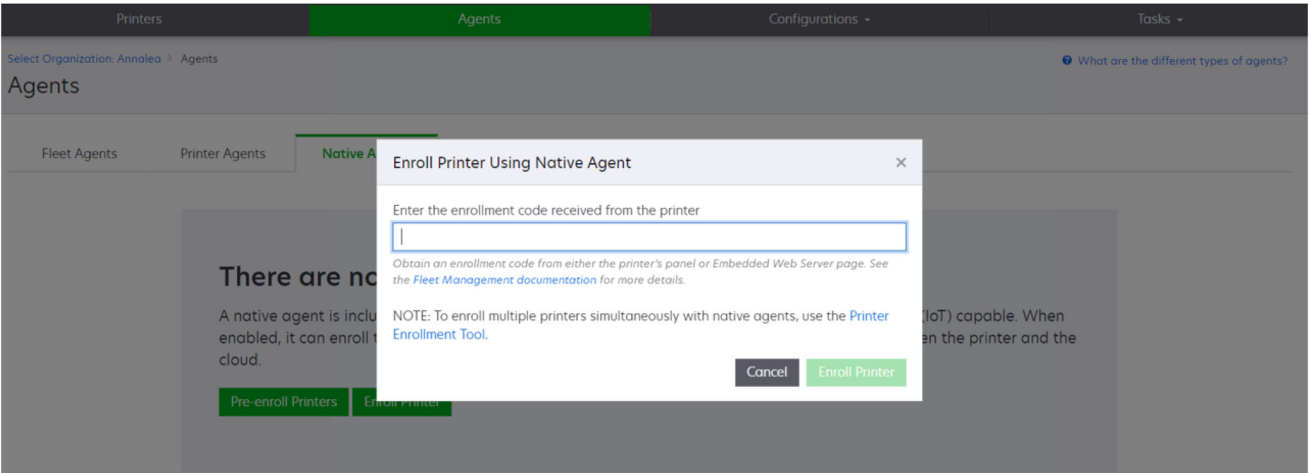


- Click **Agents > Printer Agents > Download Printer Enrollment Tool**.



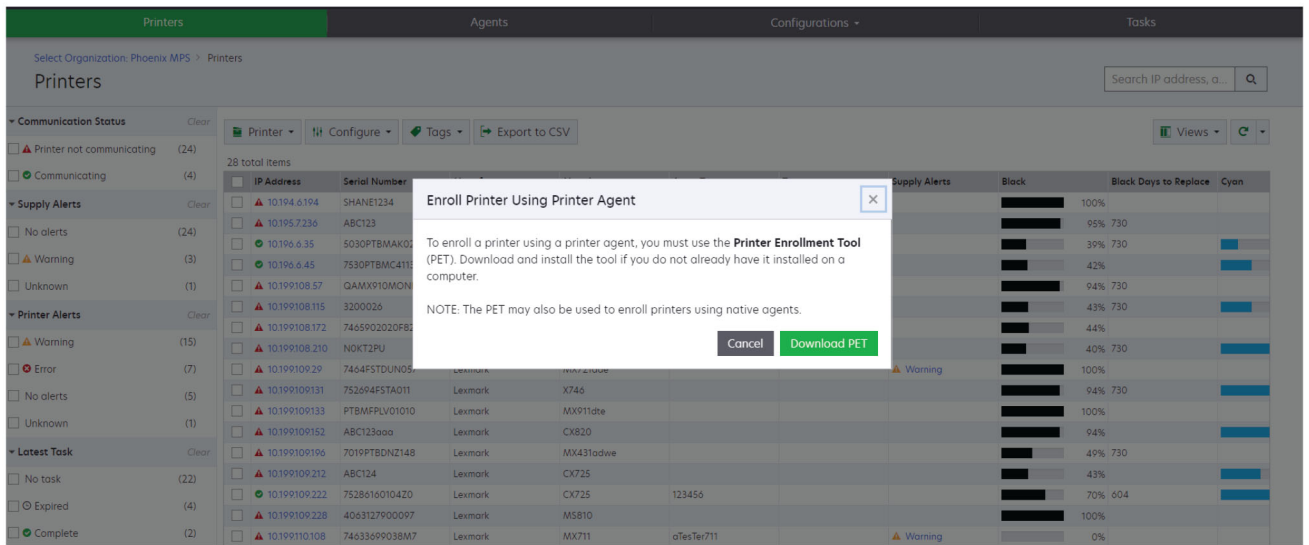


- Click **Agents > Native Agents > Enroll Printer** > use the **Printer Enrollment Tool**.



If you already have some devices enrolled, then you can download the PET by following the steps:

- Click **Printer > Enroll printer using > Printer agent > Download PET**.





- Click **Printer** > **Enroll printer using** > **Native agent** > **Enrollment** > **Download PET**.

Select Organization: Phoenix MPS > Agents

Agents

Fleet Agents Printer Agents **Native Agents** Local Agents

Enrollment Pre-enroll Enroll Printer Download PET

Update Access Credentials Agent Status

Search native agents x Q

ID	Version	Agent Status
NTNFU6HL	v1.0	
756361201022RE	v1.0	

- Click **Agents** > **Printer Agents** > **Download PET**.

Select Organization: Phoenix MPS > Agents

Agents

Fleet Agents **Printer Agents** Native Agents Local Agents

Edit Settings Update Download PET Agent Status Update Available

Search printer agents x Q

20 total items

ID	Version	Update Available	Polling Interval (minutes)	Log Level
10188.32.40	3.0.14	Yes	5	Summary
10195.7236	2.5.0	Yes	5	Summary
10199108.172	2.4.9	Yes	5	Summary

- Click **Agents** > **Native Agents** > **Enrollment** > **Download PET**.

Select Organization: Phoenix MPS > Agents

Agents

Fleet Agents Printer Agents **Native Agents** Local Agents

Enrollment Pre-enroll Enroll Printer Download PET

Update Access Credentials Agent Status

Search native agents x Q

ID	Version	Agent Status
NTNFU6HL	v1.0	
756361201022RE	v1.0	

2 Accept the End-User License Agreement (EULA).

3 Extract the zipped folder, and then locate the Printer Enrollment Tool launcher.




## Configuring the Printer Enrollment Tool settings

The Printer Enrollment Tool is configured with the default settings. In some instances, there may be differences in the customer environment that require changes to the default configuration.

- 1 Run the Printer Enrollment Tool launcher.
- 2 Type the same e-mail address and password used to connect to the Lexmark Cloud Services website, and then click **Log In**.

**Note:** If there is any update available for the Printer Enrollment Tool, you have to update before proceeding further. For more information on updating the Printer Enrollment Tool, see [Updating the Printer Enrollment Tool](#).

- 3 Click  on the upper-right corner of the page.
- 4 From the Discover and enroll native agent-capable printers using menu, select either **Printer agent** or **Native agent**.

**Notes:**

- Native agent is selected by default.
- Use Native agent to enroll IoT-capable printers, when enrolling printers of different models.
- Use the Printer agent to enroll eSF-capable printers, which are not IoT-capable.

- 5 Specify the printer discovery and printer enrollment timeouts.
- 6 From the Logging detail section, select either **Summary** or **Detailed**.

**Note:** Click **View current log** to view the current log details.

- 7 In the SNMP Settings menu, select a version.

**Note:** The Printer Enrollment Tool uses mDNS for discovery. The SNMP settings are applied only when mDNS is disabled on the devices that are being discovered.

- For Versions 1 and 2c, select a community string type. To set a custom community string, select **Custom value**, and then type the string.
- For Version 3, select a security level, an authentication mode, and a privacy type.

- 8 From the Community String section, select **'public'** or **Custom value**.

**Note:** Enter the strings in the Custom value field.

- 9 Click **Save Settings**.

## Updating the Printer Enrollment Tool

- 1 Run the Printer Enrollment Tool launcher.
- 2 Type the same e-mail address and password used to connect to the Lexmark Cloud Services website, and then click **Log In**.
- 3 On the Update Available window, click **Download New Version**.

**Note:** The Update Available window appears only if there is a new version available.

- 4 On the Downloading Update window, click **Close Application**.

**Note:** The update is downloaded in ZIP format.



- 5 Locate the ZIP folder, and extract the zipped folder.
- 6 Run the Printer Enrollment Tool launcher.
- 7 Type the same e-mail address and password used to connect to the Lexmark Cloud Services website, and then click **Log In**.

## Enrolling printers using the Printer Enrollment Tool

The printers must be enrolled in the Lexmark Cloud Services website before you can manage them.

- 1 Run the Printer Enrollment Tool launcher.

**Note:** For more information, see [“Downloading the Printer Enrollment Tool” on page 298](#).

- 2 Type the same e-mail address and password used to connect to the Lexmark Cloud Services website, and then click **Log In**.

- 3 If you are managing multiple child organizations, then select an organization.

**Note:** If only one organization is assigned to your account, then it is preselected.

- 4 Click **Next**, and then from the Printer Discovery section, select a discovery type.

- To search for all printers in your local network, select **Search local network**.
- To search for a specific IP address, subnet, range, or fully qualified domain name (FQDN), select **Advanced search**.

**Notes:**

- The entries are not saved after the Printer Enrollment Tool is closed. To save your advanced search list, click **Export**. The list is saved in a CSV format.
- To use an existing CSV file, click **Import**.

- 5 Click **Discover Printers**.

**Notes:**

- If the settings are configured with SNMP v3 with authentication, then you are prompted for the SNMP credentials
- If a firewall prompt appears, then click **Allow access**.

- 6 View the information, and then close the Printer Discovery dialog box.

- 7 From the Printer Enrollment section, select one or more printers.

**Notes:**

- Printers from the Enrolled tab can be re-enrolled. Re-enroll the printer when it is not responding, or when the printer must be unenrolled from a different organization and enrolled in the current organization.
- The Printer Enrollment Tool discovers Fleet Agent–managed printers, but they cannot be selected for enrollment.
- The Printer Enrollment Tool discovers Native Agent–managed printers, but Native devices, enrolled in the current organization, cannot be selected for enrollment.
- Depending on the firmware version, the printer may be enrolled using either the Printer Agent or Native Agent. For more information, see the Agent Type column.



- We recommend using Lexmark Cloud Services to unenroll printers from their current organization before enrolling them in a new organization.

**8** Click **Enroll Printers**.


**9** In the Authentication for Secured Printers dialog box, do either of the following:

- For secured printers, select the authentication type, enter the printer credentials, and then click **Apply Credentials**.
- For unsecured printers, click **Skip This Step**.

**Note:** Some printer models may have different authentication credentials configurations. Make sure that the authentication type set during enrollment in the Printer Enrollment Tool matches the authentication type configured in the printer. If the authentication types do not match, then the printer is not enrolled.

**10** Close the Printer Enrollment Tool.

**Notes:**

- Printers that have down-level firmware cannot be enrolled. The firmware on those printers must be updated manually. For more information, see [“Updating printer firmware from the Embedded Web Server” on page 48](#).
- The enrollment process may take a few minutes to complete.
- The enrolled printers are added to the printer list on the main page of the Fleet Management web portal.
- It may take a few minutes for the enrolled printers to appear in the Fleet Management web portal.
- For more information on the unenrolled printers, click .

## Accessing the Printer Agent

The Printer Agent can be accessed from the printer’s Embedded Web Server. You can view the enrollment status of the printer and poll for new events immediately without waiting for the polling interval to elapse.

**Note:** To access the printer Embedded Web Server, make sure that you are on the same network as the printer.

**1** From the Fleet Management web portal, click **Printers**.

**2** From the printers list, click the printer identifier.

**Note:** For more information on setting the printer identifier, see [“Managing views” on page 319](#).

**3** From the Identification section, click **Open the printer’s Embedded Web Server (EWS)**.

**4** Depending on your printer model, from the Embedded Web Server, click **Applications** or **Apps**.

**5** Click **Printer Configuration Agent**.

**6** Do either of the following:

- Click **Poll Now** to poll for new updates.
- Click **Test Agent Connection** to check the following:
  - Network connectivity between the Printer Agent and Lexmark Cloud Services
  - Login access to the printer
  - Function access controls and permissions
- Click **Update Credentials** to provide login credentials for secured printers.



**Note:** We recommend running the **Test Agent Connection** to make sure that the agent can communicate to the Lexmark Cloud Services. If a connectivity issue is encountered, then see the Troubleshooting section.

## Editing a printer agent

- 1 From the Fleet Management web portal, click **Agents > Printer Agents**.
- 2 Select one or more agents, and then click **Edit Settings**.
- 3 Set the polling interval and the log level.
- 4 Click **Save Settings**.

## Updating the Printer Agent

Make sure that the printer has no unresolved errors, has no pending jobs, is in ready state, and is not being used.

- 1 From the Fleet Management web portal, click **Agents > Printer Agents**.
- 2 Select one or more agents, and then click **Update > Update agent version**.
- 3 Click **Continue**.

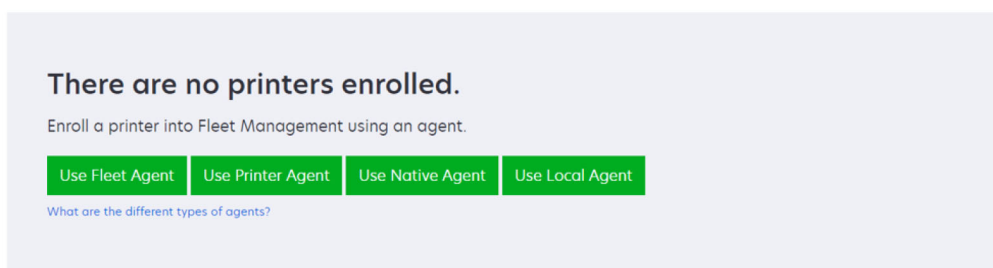
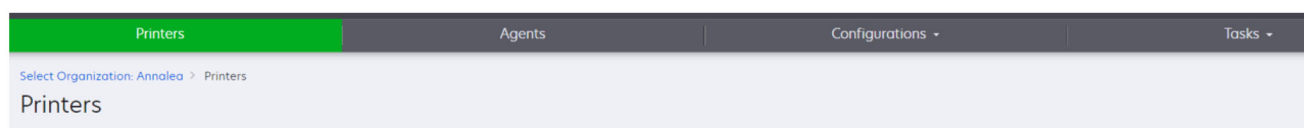
## Using the Fleet Agent

### Creating a Fleet Agent

The Fleet Agent discovers and enrolls printers in the Lexmark Cloud Services website.

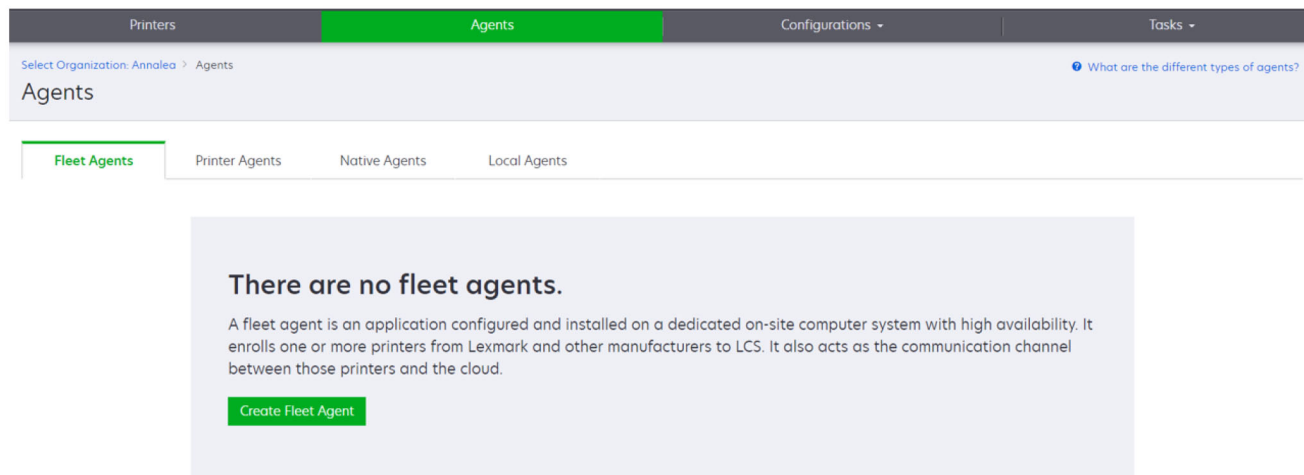
**Note:** The Fleet Agent requires a server with high availability and constant Internet connection.

- 1 From the Fleet Management web portal, do either of the following:
  - Click **Use Fleet Agent > Create Fleet Agent**.





- Click **Agents > Fleet Agents > Create Fleet Agent**.



2 Type a unique name and description.

3 From the Discovery Criteria tab, do one or more of the following:

- To prevent the Fleet Agent from taking over the management of enrolled printers, disable **Transfer management of discovered printers that are already enrolled through another agent**.

**Notes:**

- If the setting is enabled, then polling information from the Printer Agent is stopped.
- The Printer Agent application remains in the printer.
- To search for all printers in your local network, set Search Type to **Search Local Network**.
- To search for or exclude a specific IP address, subnet, range, or fully qualified domain name (FQDN), set Search Type to **Advanced search**. Do one or more of the following:
  - From the Include tab, click **Add Discovery Criteria to Include**, and then type the printer information.
  - From the Include tab, click **Import**, and then browse to the **csv** or **txt** file.

**Notes:**

- To view a sample file, click **Download sample file**.
- To overwrite the existing IP address, subnet, range, or FQDN in the discovery criteria, enable **Overwrite existing "included" discovery criteria**.
- From the Exclude tab, click **Add Discovery Criteria to Exclude**, and then type the printer information.
- From the Exclude tab, click **Import**, and then browse to the **csv** or **txt** file.

**Notes:**

- To view a sample file, click **Download sample file**.
- To overwrite the existing IP address, subnet, range, or FQDNs in the discovery criteria, enable **Overwrite existing "excluded" discovery criteria**.

You can also export or delete discovery criteria. From either Export or Import tab, select one or more addresses, and then click either **Export** or **Delete**.

- Select an SNMP profile.



**4** From the SNMP Profile tab, create an SNMP profile. Do the following:

- a** Click **Create**, and then type a unique profile name.
- b** Select an SNMP version.

**Notes:**

- For Versions 1 and 2c, type a community name.
- For Version 3, select a security level, an authentication mode, and a privacy type.

- c** Set the discovery timeout and number of retries.
- d** Click **Create SNMP Profile**.

**5** From the Scheduled Tasks tab, set the Printer Discovery Task and Refresh Printer Information Task intervals.

**Notes:**

- The Fleet Agent discovers and enrolls printers based on the Printer Discovery Task interval
- The Fleet Agent scans the printers according to the interval set in the Refresh Printer Information Task setting of the Scheduled Tasks section. The data is sent to the Lexmark Cloud Services server only if there is an alert change or toner level decrement. The data is not sent to the cloud server if there is only page count change. However, even if there are no alert changes or page count changes, the data is sent to the cloud server once every 24 hours.

**6** From the Other Settings tab, configure the Log level and Network utilization delay settings.

**Notes:**

- Setting the Network utilization delay value below 250 (default) may impact the network performance. We do not recommend setting the value to zero.
- The larger the delay, the longer the discovery takes to complete.

**7** Click **Create Agent**.

## Downloading the Fleet Agent

Before you begin, make sure that you have created a Fleet Agent. For more information, see [“Creating a Fleet Agent” on page 305](#).

**1** From the Fleet Management web portal, click **Agents > Fleet Agents**.

**2** Click the Fleet Agent name, and then click **Installation Package > Download**.

**Note:** To send the installation package link using e-mail, click **Installation Package > Email**, and then type an e-mail address.

**3** Select an installation package type, and then click **Download Package**.

**Notes:**

- Take note of the activation code.
- The activation code is valid for 72 hours. If it expires before activating the agent, then generate a new activation code. From the Fleet Management portal, click **Agents > Fleet Agents > select a Fleet Agent > Generate activation code**.



## Installing the Fleet Agent

Make sure that the Fleet Agent server and the printers are on the same network. The Fleet Agent also requires a server or host computer with high availability.

- 1 From a server or host computer, run the Fleet Agent installation package.
- 2 Accept the End-User License Agreement (EULA).
- 3 Enter the port number.

**Notes:**

- The default port number is 80.
- If port 80 is not available, then enter any available port, such as 8080 or 8088.

- 4 Click **Finish** to close the installation window, and launch the Fleet Agent on a web browser.

**Note:** The Launch Lexmark Fleet Agent in Your Browser option is selected by default.

- 5 From the Fleet Agent page in the browser, enter the activation code.

- 6 If necessary, select **Use Proxy Settings**, and then provide the proxy information.


- 7 Click **Continue**, and then, if necessary, type an agent password.

**Note:** If you provided an agent password, then the password is required to access the installed Fleet Agent.

- 8 Select **Discover and enroll printers immediately after activating this agent**.

**Note:** The printers are automatically discovered and enrolled after activating the agent.

- 9 Click **Activate Agent**.

**Note:** You can change the security setting, proxy settings, or agent password later by clicking  on the upper-right corner of the Fleet Agent home screen. For more information, see [“Configuring the Fleet Agent server settings” on page 308](#).




## Configuring the Fleet Agent server settings

- 1 From a server or host computer, open the Fleet Agent. Do either of the following:

- Click the Fleet Agent shortcut.
- Open a web browser, and then type **localhost**.

**Note:** If the Fleet Agent uses a port other than port 80, then type **localhost :x**, where **x** is the port number.

- 2 From the home screen, do one or more of the following:

- To configure the proxy settings, click  > **Proxy Configuration**.
- To protect the Fleet Agent with a password, click  > **Create Password**.
- To allow remote access to this Fleet Agent, click  > **Update Security Setting**.

**Note:** In the security setting, the Allow local host access only (Recommended) option is selected by default. This option prevents other computers on the network from accessing the Fleet Agent. Clear the option to grant access to other computers on the network.



## Managing a Fleet Agent

- 1 From the Fleet Management web portal, click **Agents > Fleet Agents**.
- 2 Click a Fleet Agent, and then do one or more of the following:
  - To edit the Fleet Agent, click **Edit Agent**. For more information, see [“Editing the Fleet Agent” on page 309](#).
  - To initiate printer discovery and enrollment, click **Discover & Enroll Printers**.
  - To download the installation package, click **Installation Package > Download**.
  - To refresh all printer information before the scheduled refresh task, click **More > Refresh all printer information**.
  - To deactivate the Fleet Agent, click **More > Deactivate Agent**.
  - To delete the Fleet Agent, click **More > Delete Agent**.
  - To request Fleet Agent logs, from the Log section, click **Request**.

**Note:** It may take time for the logs to generate and make them available for download.

## Editing the Fleet Agent

If there are changes to your discovery criteria, task schedule, log level, or server delay settings, then edit the Fleet Agent.

- 1 From the Fleet Management web portal, click **Agents > Fleet Agents**.
- 2 Click the agent name, and then click **Edit Agent**.
- 3 Configure the settings, and then click **Save Changes**.

## Updating the Fleet Agent

- 1 From the Fleet Management web portal, click **Agents > Fleet Agents**.
- 2 Select one or more Fleet Agents, and then click **Update > Fleet Agent**.
- 3 Click **Continue**.

## Using the Native Agent

### Pre-enrolling printers

These instructions apply only to printers with firmware version is 075.xx or later preinstalled in the factory.

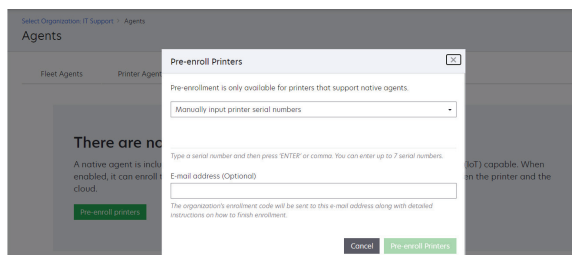
**Note:** To determine the printer firmware version, see [“Viewing the printer firmware version” on page 48](#).

- 1 From the Fleet Management web portal, do one of the following:



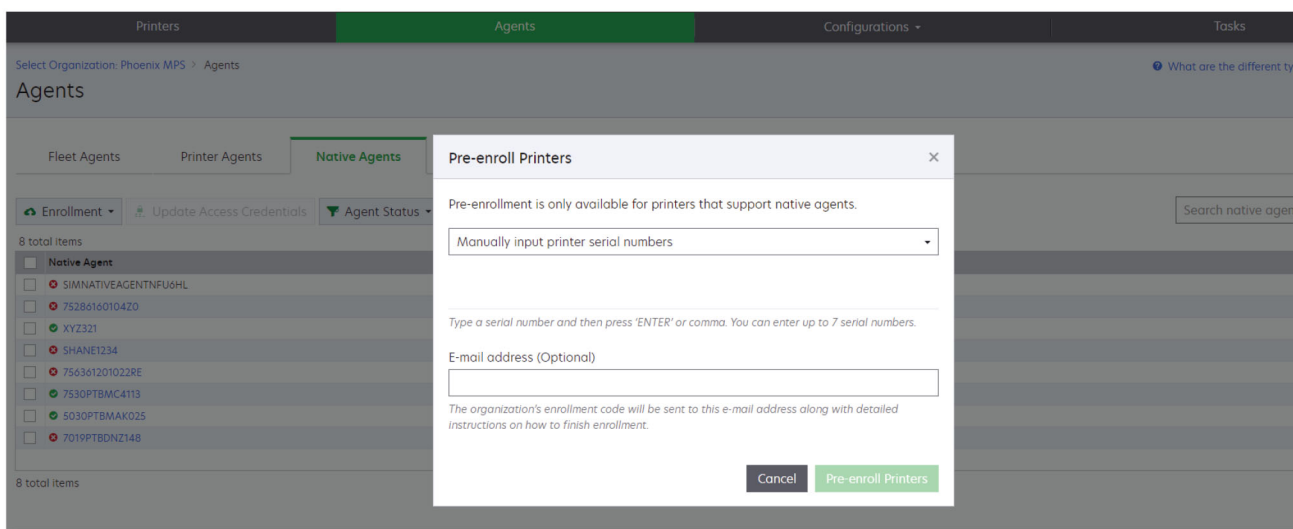
If no devices are enrolled:

- Click **Agents > Native Agents > Pre-enroll Printers**.



If devices are already enrolled:

- Click **Agents > Native Agents > Enrollment > Pre-enroll > Pre-enroll printers**.



**2** From the Pre-enroll Printers dialog, do one of the following:

- Select **Manually input serial number**, type the printer serial number, and then press **Enter**.
- Select **Import printer serial number from file**, and then browse to the CSV or TXT file.

**Note:** To receive the enrollment code and the complete enrollment instructions using e-mail, type your e-mail address.

**3** Click **Pre-enroll Printers > Enrollment > Pre-enroll**.

**4** Copy the organization's enrollment code.

**Note:** For pre-enrolled devices, complete the enrollment process either from the Embedded Web Server or from the printer control panel.

## Completing the printer enrollment from the Embedded Web Server

**1** From the Embedded Web Server, do one of the following:

- Click **Settings > Cloud Services > Cloud Services Enrollment**.
- Click **Settings > Lexmark Cloud Services > Cloud Fleet Management**.

**Note:** Make sure that Enable communication with Lexmark Cloud Services is selected.



- 2 In the Enrollment Code field, enter the enrollment code, and then click **Enroll Printer**.

### Completing the printer enrollment from printer control panel

- 1 From the printer home screen, do one of the following:
  - Touch **Settings** > **Cloud Services** > **Cloud Services Enrollment**.
  - Touch **Settings** > **Lexmark Cloud Services** > **Cloud Fleet Management**.
- 2 From the Enable communication with Lexmark Cloud Services menu, touch **On**.
- 3 In the Enroll Printer field, enter the enrollment code, and then touch **OK**.

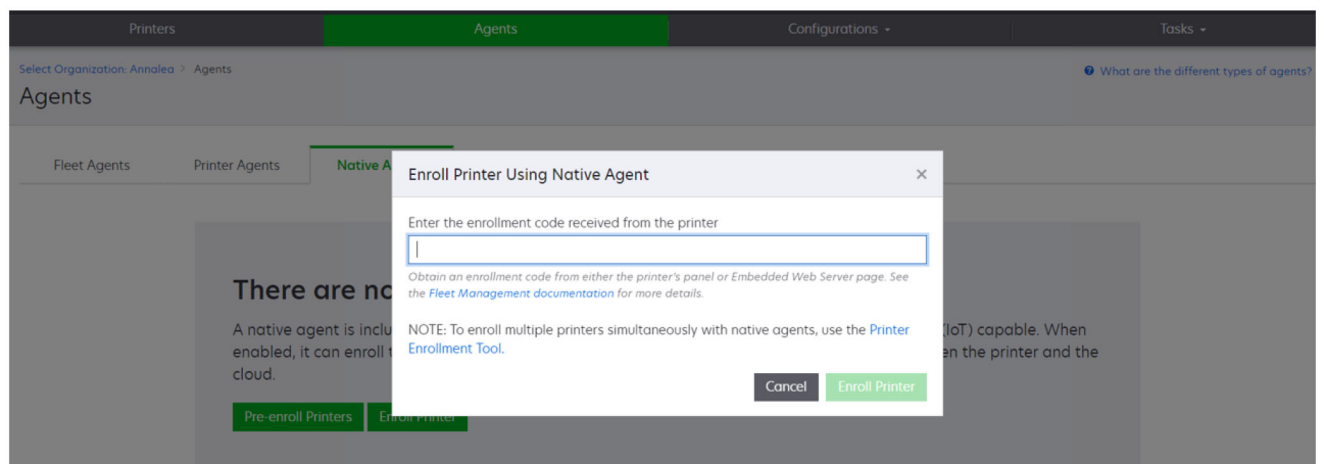
### Enrolling printers from the printer control panel

These instructions apply only to the following conditions:

- You have not pre-enrolled the printer.
- You have not enrolled the printer using the Native Agent.
- The printer is manufactured and shipped with firmware 075.001 or later.
- The recommended firmware is 081.215 or later.

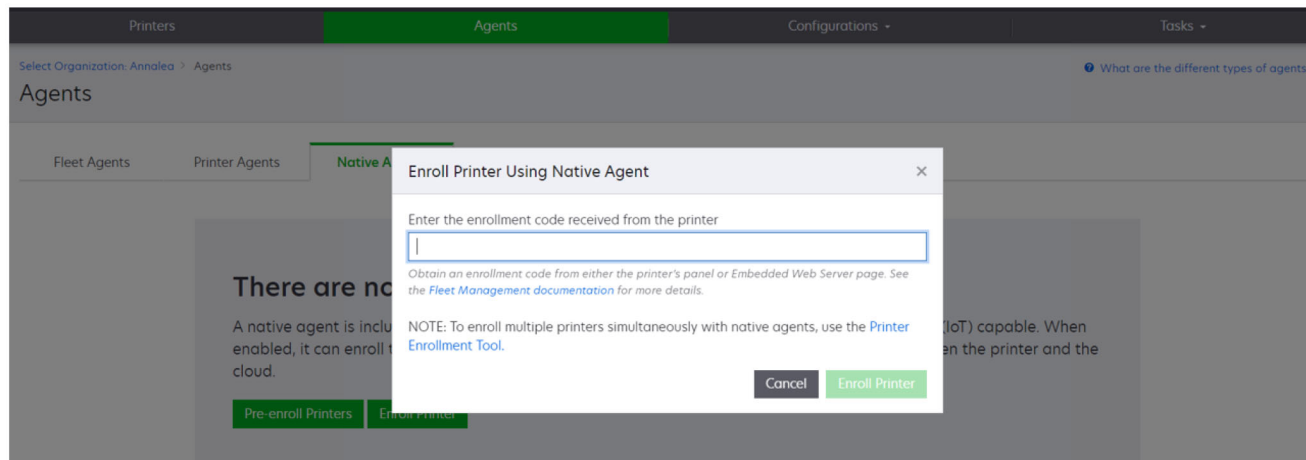
**Note:** To determine the printer firmware version, see [“Viewing the printer firmware version” on page 48](#).

- 1 From the printer home screen, do one of the following:
    - Touch **Settings** > **Cloud Services** > **Cloud Services Enrollment**.
    - Touch **Settings** > **Lexmark Cloud Services** > **Cloud Fleet Management**.
- Note:** To make the Cloud Services Enrollment option available, click **Security** > **Device Management** > **Cloud Services Enrollment**.
- 2 From the Enable communication with Lexmark Cloud Services menu, touch **On**.
  - 3 From the Get Enrollment Code menu, touch **Get Code**, copy the enrollment code, and then touch **OK**.
  - 4 From the Fleet Management web portal, do one of the following:
    - Click **Use Native Agent**, enter the enrollment code, and then click **Enroll Printer**.





- Click **Agents > Native Agents > Enroll Printer**, enter the enrollment code, and then click **Enroll Printer**.



## Enrolling printers from the Embedded Web Server

These instructions apply only to the following conditions:

- You have not pre-enrolled the printer.
- You have not enrolled the printer using the Native Agent.
- The printer is manufactured and shipped with firmware 075.001 or later.
- The recommended firmware is 081.215 or later.

**Note:** To determine the printer firmware version, see [“Viewing the printer firmware version” on page 48](#).

**1** From the Embedded Web Server, do one of the following:

- Click **Settings > Cloud Services > Cloud Services Enrollment**.
- Click **Settings > Lexmark Cloud Services > Cloud Fleet Management**.

**Note:** To make the Cloud Services Enrollment option available, click **Security > Device Management > Cloud Services Enrollment**.

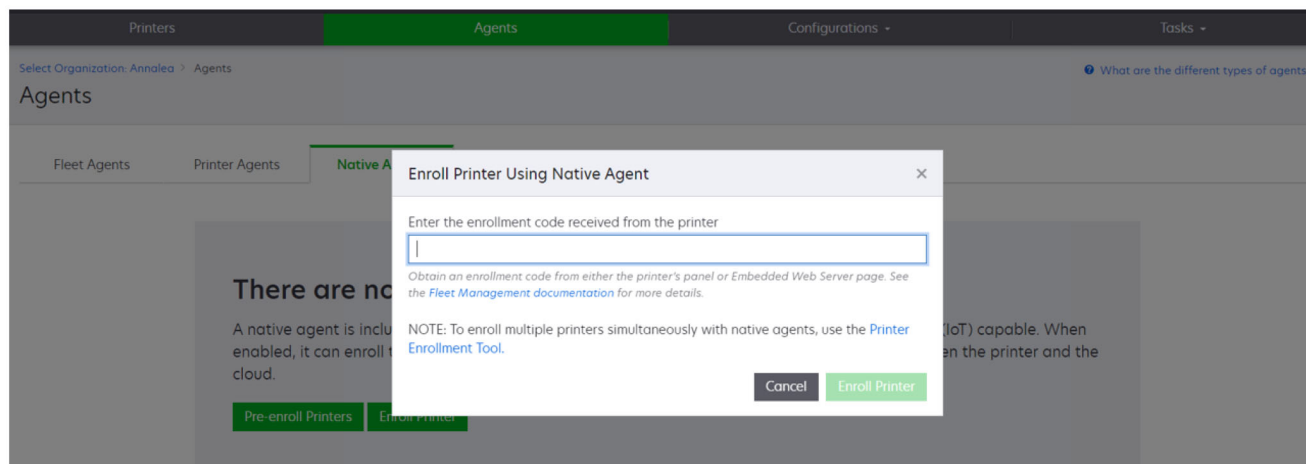
**2** Select **Enable communication with Lexmark Cloud Services**, and then click **Refresh**.

**3** Click **Get Enrollment Code**, and then take note of the code.

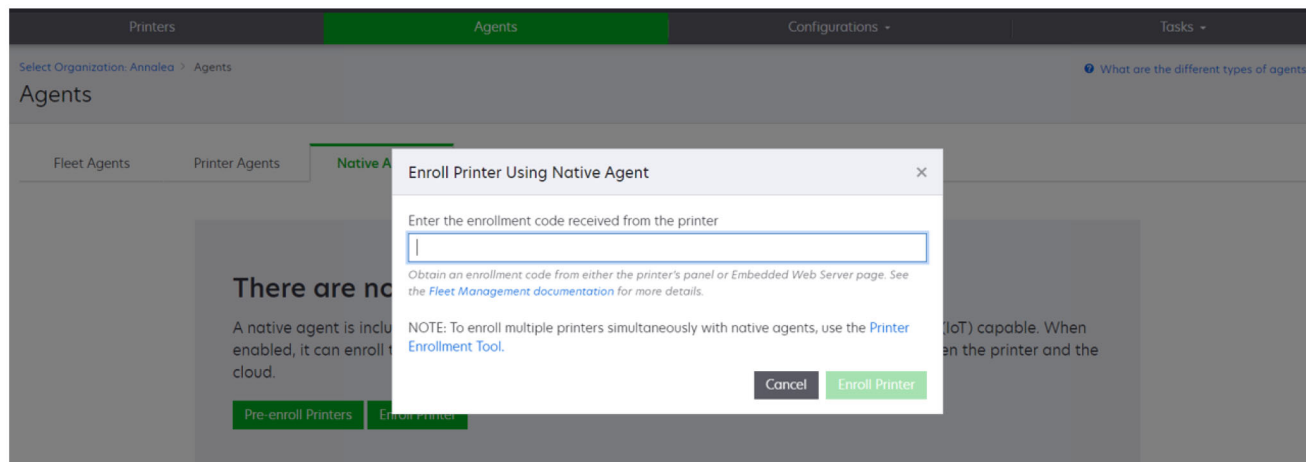


4 From the Fleet Management web portal, do one of the following:

- Click **Use Native Agent > Enroll Printer**, enter the enrollment code, and then click **Enroll Printer**.



- Click **Agents > Native Agents > Enroll Printer**, enter the enrollment code, and then click **Enroll Printer**.



## Removing pre-enrolled printers

1 From the Fleet Management web portal, do either of the following:

- Click **Agents > Native Agents > Enrollment > Pre-enroll > Remove pre-enrolled printers**.
- Click **Printers > Select a specific printer > Remove pre-enrolled printers**.

2 Click **Remove**.

**Note:** To remove an enrolled printer, see [“Unenrolling printers” on page 331](#).

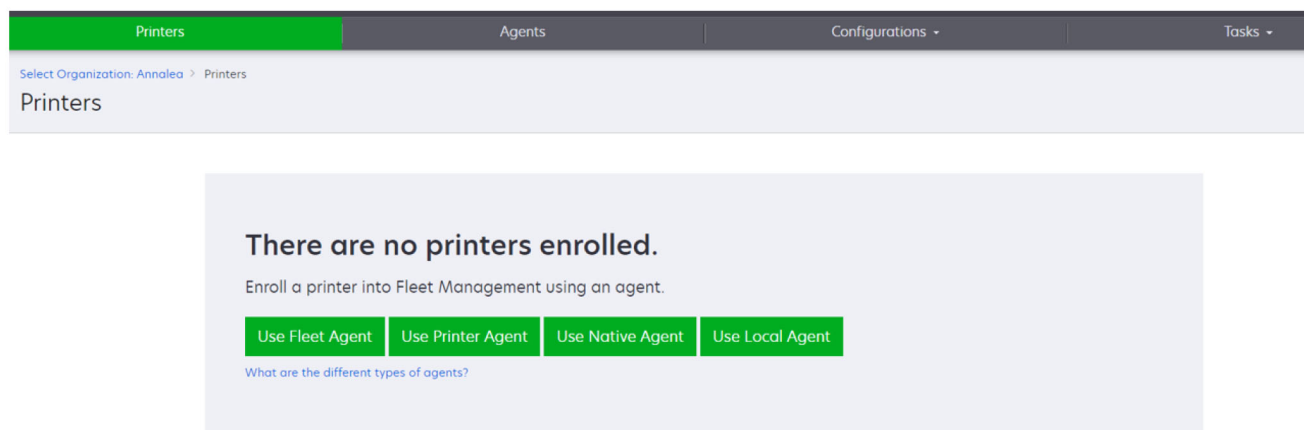


## Using the Local Agent

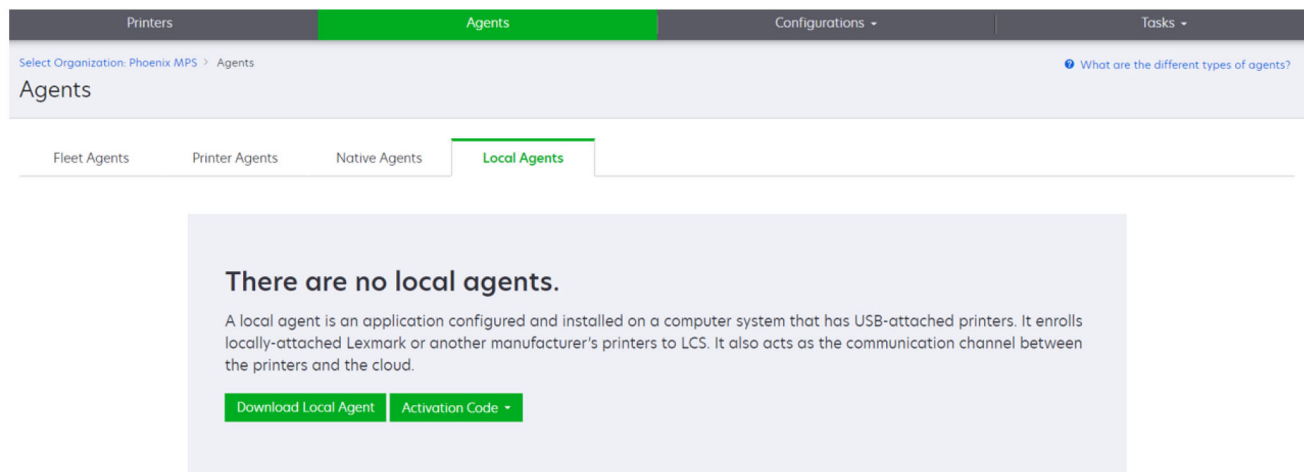
### Downloading the Local Agent

1 From the Fleet Management web portal, do either of the following:

- Click **Use Local Agent**.



- Click **Agents > Local Agents**.



2 Click **Download Agent**.

3 Select an installation package type.

**Note:** You can select either the Windows x64 installer package type or the Windows x86 installer package type.

4 Select **Generate activation code**.

**Notes:**

- Take note of the activation code.



- The activation code is valid for 72 hours. If it expires before activating the agent, then generate a new activation code. From the Fleet Management portal, click **Agents > Local Agents > Activation Code > Generate activation code**.
- You can set the number of agents to be activated by the code.

**5** Click **Download Agent**.

**6** To accept the End User License Agreement (EULA), click **Accept and Download**.

## Installing the Local Agent

- 1** Unzip the installation package.
- 2** From the host computer, run the Local Agent installation package.
- 3** Accept the End-User License Agreement (EULA).
- 4** Click **Finish** to close the installation window.
- 5** From the Start menu, launch the Lexmark Local Agent application, and then enter the activation code.
- 6** Click **Activate Agent**.

**Note:** After activation, the Local Agent starts collecting the details about the USB-connected printers. These printers get automatically enrolled in the Lexmark Cloud Services web portal.

## Silent activation for Local Agent

Silent activation is used for mass installation of Local Agent.

- 1** Unzip the installation package.
- 2** Open the **LocalAgentConfig.ini** file.
- 3** Under the **[IOT\_HUB]** block, add the **CS\_ACTIVATION\_CODE** parameter.
- 4** Enter the activation code generated from Lexmark Cloud Services as the value of the parameter.

### Sample code:

```
[IOT_HUB]
CS_ACTIVATION_CODE=ab23ftcd-12dt-edte-123hdt dk-ttrbd
```

- 5** Perform the installation steps. For more information, see [“Installing the Local Agent” on page 315](#).

## Refreshing printer information using the Local Agent

You can refresh printer information using the Local Agent. The printer must be communicating with the Local Agent through USB, and the Local Agent must be sending the printer information to Lexmark Cloud Services.

- 1** From the Fleet Management web portal, select the **Printers** tab.
- 2** From the Filters menu, click **Agent Type > Local**.
- 3** Select a printer.
- 4** Click **Printer > Refresh printer information**.

### Notes:

- Clicking **Refresh printer information** creates a task. To view the status of the task, click **Tasks > Status**.



- To know the details about a failed task, click the task ID, and then click the **Failed** hyperlink under the Status column.

## Editing the Local Agent

You can edit the local agent to configure it, deactivate it, or delete it.

- 1 From the Fleet Management web portal, click **Agents > Local Agents**.
- 2 Click the name of the local agent, and then do any of the following:

### Edit an agent

- a To edit a local agent, click **Edit Agent**.
- b From the Log Level menu, select either **Summary** or **Detailed**.
- c From the Polling interval menu, set the interval at which the Local Agent sends data to the cloud server.
- d Click **Save Changes**.

**Note:** A task is created in the Task inventory. The Local Agent must be connected to the cloud server to complete this task.

### Deactivate an agent

- a To deactivate a local agent, click **Deactivate Agent**.
- b Click **Deactivate Agent**.

**Note:** Click **Cancel** to cancel the deactivation.

### Delete an agent

- a To delete a local agent, click **Delete Agent**.
- b Click **Continue**.

## Editing multiple local agent settings from the Local Agents tab

- 1 From the Fleet Management web portal, click **Agents > Local Agents**.
- 2 Select one or more local agents.
- 3 Click **Edit Settings**.

**Note:** If any of the selected local agents is not communicating, then a warning appears. Click **Continue** to apply the settings for the communicating agents only.

- 4 From the Log Level menu, select either **Summary** or **Detailed**.
- 5 From the Polling interval menu, set the interval at which the Local Agent sends data to the cloud server.

**Note:** If you select multiple local agents, then by default, the log level value is Detailed and the polling interval value is 180.

- 6 Click **Save Changes**.

### Notes:

- A task is created in the Task inventory. The Local Agent must be connected to the cloud server to complete this task.



- If any of the local agents is not communicating, then the task gets completed with errors. The configuration settings apply to the communicating agents only.

## Updating the Local Agent

- 1 From the Fleet Management web portal, click **Agents > Local Agents**.
- 2 From the Updates Available menu, select **Yes**.
- 3 From the list that appears, select one or more Local Agents, and then click **Update**.

### Notes:

- You can also update the agent by clicking the agent name and then **Update agent version** in the Identification section.
- A task is created in the Task inventory. The Local Agent must be connected to the cloud server to complete this task.

## Requesting log collection for a Local Agent

- 1 From the Fleet Management web portal, select the **Agents** tab.
- 2 Click an activated Local Agent.
- 3 From the Log section, click **Request**.

**Note:** An Upload local agent logs task is created.

- 4 Click **Download** to download the log file.

### Notes:

- The log file is downloaded in ZIP format.
- The information included in the log files depends on the settings of the Local Agent.

## Sample log file:

```
Thursday, January27 06:20:02 : tid=6936 : UninstallLPMAService(139) : error=1060
Thursday, January27 06:21:13 : tid=10636 : LPMAMain(352) : Lexmark Local Agent Service is
started
Thursday, January27 06:24:57 : tid=10636 : LPMAMain(360) : Lexmark Local Agent Service is
stopped
Thursday, January27 06:25:51 : tid=7024 : LPMAMain(352) : Lexmark Local Agent Service is
started
Thursday, January27 06:27:06 : tid=7024 : LPMAMain(360) : Lexmark Local Agent Service is
stopped
Thursday, January27 06:27:11 : tid=14108 : LPMAMain(352) : Lexmark Local Agent Service is
started
Thursday, January27 11:41:08 : tid=3984 : LPMAMain(352) : Lexmark Local Agent Service is
started
Saturday, January29 01:45:02 : tid=4100 : LPMAMain(352) : Lexmark Local Agent Service is
started
```



# Managing enrolled printers

## Accessing the aggregate printer data view

The aggregate view shows all the enrolled printers of the Lexmark partner and all printers of the partner's customers. This feature is available only to partner administrators who are members of a Child Organization Access group which has the Fleet Management Administrator role.

**Note:** If you have the Fleet Management Administrator role in all partner organizations and have child organization access, then you can update agents across multiple child organizations. For more information, see [“Updating agents for multiple organizations” on page 294](#).

- 1 From the Fleet Management web portal, in the Select Organization page, click **All organizations (view only)**.
- 2 Do any of the following:
  - Export the printer data. For more information, see [“Exporting fleet information” on page 332](#).
  - Customize printer data shown using the left pane filters or the Views feature.
  - View and manage printers of the individual child organizations. From the Organization column, click the organization name. This link redirects you to the individual organization's Fleet Management web portal.

## Managing filter groups

You can save searches or filters in the printer listing page for repetitive use.

### Creating a filter group

- 1 From the Fleet Management web portal, select an organization.
- 2 On the printer listing page, select one or more filters.
- 3 Click **Save**.
- 4 In the Create Filter Group window, in the Filter group name field, type the name of the group, and then click **Save**.

**Note:** After creating one or more filter groups, you can view the groups under the Select filter group menu.

### Modifying an existing filter group

- 1 From the Fleet Management web portal, select an organization.
- 2 On the printer listing page, from the Select filter group menu, select the filter group that you want to modify.
- 3 Modify the existing filters.

**Note:** To modify an existing filter group, you can add more filters, remove existing filters, or do both.
- 4 Click **Save**.
- 5 In the Create Filter Group window, click **Save** to save the changes.

**Note:** To modify the name of a filter, type the name of the filter group in the Filter group name field, and then click **Save**.



### Deleting an existing filter group

- 1 From the Fleet Management web portal, select an organization.
- 2 On the printer listing page, from the Select filter group menu, select the filter group that you want to delete.
- 3 Click **Delete**.
- 4 In the Delete Filter Group window, click **Delete**.

### Changing the printer listing view

For more information, see [“Managing views” on page 319](#).

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Click **Views**, and then select a view.

**Note:** The selected view becomes the default view, and does not change when you log out from Lexmark Cloud Services.

### Using Quick View

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Click **Views**.
- 3 From the Quick View tab, in the Column 1 (printer identification) menu, select the identifier column.
- 4 From the Additional columns section, select the information that you want to show as a column.
- 5 Click **Apply**.

**Note:** Quick views are not saved. The default view is applied when the user logs in again in Lexmark Cloud Services.

### Managing views

You can customize the information that appears in the printer listing page.

The following views are system generated. These views can be copied, but cannot be edited or deleted.

- **Configurations**—Shows configuration-related information such as last configuration, availability of firmware update, current firmware version, and last communication.
- **Meters**—Shows the Days to Replace column for supply items, which is calculated based on usage and predicts when the supply item must be replaced.
- **Operations**—Shows the serial number, model information, manufacturer, agent version, communication status and task related details for the printers.
- **Standard**—Shows standard information like model number, attached tags, asset tags, and supply alerts.
- **Supplies**—Shows the scan, copy, and fax counts. If you are using a color printer, then the copy count also distinguishes between mono and color counts.
- **Supplies coverage**—Shows supply-related information like lifetime coverage of each of the cartridge colors.
- **Managed**—Shows the printers that are managed by Lexmark, the supplies delivery contacts, and the business names.



- 1 From the Fleet Management web portal, click **Printers**.
- 2 Click **Views**, and then do any of the following:

### Create a view

- a Click **Create view**.
- b Type a unique view name.
- c In the Column 1 (printer identification) menu, select the identification type.
- d From the Available columns section, select the information that you want to show as a column, and then click >.
  - To remove a column, from the Selected columns section, select the information, and then click <.
- e Click **Create View**.

**Note:** You can also add or remove columns from the Selected columns list by clicking and dragging the column into or out of the list.

- To rearrange the column order, click ▢ or ▢

**Note:** The created view is applied automatically, and becomes the default view.

### Edit a view

- a Click **Manage views**.
- b Click a view name, and then configure the settings.
- c Click **Save Changes**.

#### Notes:

- You cannot edit system-generated views.
- The view that is created from this page does not become the default view.

### Delete views

- a Click **Manage views**.
- b Select one or more views, and then click **Delete**.
- c Click **Delete Views**.

#### Notes:

- You cannot delete system-generated views.
- If the current view is deleted, then the Standard system-generated view becomes the default view.
- Views are shared across child organizations, and a default view is stored for each user. If user A uses a view and user B deletes the view, then user A defaults back to the Standard system-generated view.

### Copy a view

- a Click **Manage views**.
- b Select a view, and then click **Copy**.
- c Configure the settings.
- d Click **Create View**.



# Viewing printer information

- 1 From the Fleet Management web portal, click **Printers**.
- 2 From the printers list, click the printer identifier.

**Notes:**

- In the default view, the IP address is the printer identifier. For more information on setting the printer identifier, see [“Managing views” on page 319](#).
- To update the printer information, click **Refresh Information**.
- To view the report on printer hardware statistics, click **View Report**.
- To restart the printer, click **Restart**.
- To show a notification on the printer control panel, click **Notifications**. For more information, see [“Sending notifications to the printer control panel” on page 324](#).
- To remove the printer from your organization, click **Unenroll**.

- 3 View the following printer information:

- The date and time of the last poll or sync
- The date and time that the printer was last restarted
- The current printer status
- Scan, copy, and fax counts

**Notes:**

- The Meters section of the printer details page includes information related to scan, copy, and fax page counts.

**Meters**  
Unit = Sides

<b>Print</b>	
Total Print Count	95340
Mono	11983
Color	83357
▼ Print Details	
Two-sided	12815 Sheets
<b>Copy</b>	
Total Copy Count	6018
Mono	526
Color	5492
<b>Other Meters</b>	
Scan Count Total	9030
Printed Fax Count Total	144

Status

Supplies

Identification

**Meters**

Firmware

Installed Applications

Home Screen

Agent Information

Logs

Task History

[Back to top](#)

- In the printer listing page, you can include columns on color and mono copy count, total copy count, total scan count, and total printed fax count.

Printer Configure Tags Export to CSV Views

3 total items

	IP Address	Agent Type	Model	Color Copy Count	Mono Copy Count	Total Copy Count	Printed Fax Count Total	Scan Count Total
<input type="checkbox"/>	10194.19.247	Fleet	MX824de		272	272	33	3969
<input type="checkbox"/>	10194.29.35	Printer	MX711	0	12476	12476	23	18034
<input type="checkbox"/>	10194.29.232	Native	MB2236adwe	0	16	16	0	17



- The current supplies status

#### Notes:

- You can create and customize the dashboard to view printer alerts and printer status by adding the Printer Communication Status card. Click the links on this card to access Cloud Fleet Management. You can view details about printers that are not communicating, agents that are not communicating, and agents that need credentials.
- The Supplies section of the printer details page features a Days to Replace column for supply items. The values in the Days to Replace column are calculated based on usage and predicts when the supply item must be replaced. The prediction is available for all assets managed by Printer Agent, Fleet Agent, Native IoT Agent, and Local Agent in the Cloud Fleet Management.

**Printers** Agents Configurations Tasks

Select Organization: Phoenix MPS > Printers > 10199109.222

Model: CX725  
Communication status: Communicating  
Last communicated: 8/12/2021, 7:14:54 AM

10:199:109.222

Refresh Information View Report Restart Notifications Unenroll

Printer information current as of: 8/12/2021, 7:14:54 AM  
Last restart: 7/10/2021, 11:40:33 AM

**Status**

Printer alerts: No alerts  
Supply alerts: No alerts

**Supplies**

Days to Replace current as of: 7/12/2021, 10:37:29 PM

Supply	Type	Serial Number	Capacity	Capacity Unit	Percentage	Days to Replace	Current Coverage	Lifetime Coverage
Black	Toner	CAH160992EB0	7000	Sides	70%	730	4.4%	4.4%
Cyan	Toner	CAH160982AE2	7000	Sides	100%	730	2.2%	2.2%
Magenta	Toner	CAH161050EB0	7000	Sides	100%	730	2.4%	2.5%
Yellow	Toner	CAH160992721	7000	Sides	100%	730	2.2%	2.2%
Fuser	Fuser	LEX20F2694	150000	Sides	100%			
Waste Toner Bottle	Waste Toner	LEX70F2694	90000	Sides	95%			
Black Imaging Unit	Other	CAH161032DA1	150000	Sides	100%	730		
Color Imaging Unit	Other	CAH16103007D	150000	Sides	100%	730		
Transfer Module	Other	LEX23F2694	150000	Other	100%			

- The printer listing page features several important information related to Days to Replace.

**Printers** Agents Configurations Tasks

Select Organization: Phoenix MPS > Printers

Search IP address, a...

**Filters** Hide Filters: Communicating (6) Clear all

Printer Configuration Tags Export to CSV Views

6 total items

IP Address	Model	Black (%)	Black Photoconductor...	Days to Replace Last ...	Black Days to Replace
10.196.6.35	CS735de	34%			730
10.196.6.45	CX735adhe	37%			
10.197.53.108	CX660	100%	100%		
10.199.109.222	CX725	70%			
10.199.110.247	MX431adhe	49%	84%		730

6 total items

- Predictions are available for toner cartridges, and photoconductors.
- The prediction is available for devices that are sending their data to Lexmark Cloud Services. The prediction date is based on the last data that were uploaded to the cloud.
- No prediction data appears if there is no communication between the printer and Lexmark Cloud Services or if the Printer Agent version is outdated. Make sure that you update the Printer Agent



to version 3.0 or later for this feature to work. If your device is enrolled with Native IoT Agent, make sure that you update to the latest firmware version.

- Prediction for Days to Replace runs once a day, and is supported for Lexmark printers only. For a newly enrolled printer, it may take up to 48 hours for a prediction to be available.

- The printer identification information

**Notes:**

- To view and configure the printer using the Embedded Web Server, click **Open the printer's Embedded Web Server (EWS)**.
- To change the asset tag, location, contact information, printer name, and description, click **Edit**.

- The printer lifetime page counts

**Note:** Printers reporting through a Fleet Agent now include blank pages in their mono page counts.

- The printer firmware version

**Note:** To update the firmware version, click **Update available**. This option appears only when a firmware update is available. For more information, see [“Updating the printer firmware” on page 330](#).

- The installed applications

**Note:** You can start, stop, or uninstall applications. For more information, see [“Managing applications” on page 327](#).

- The agent information
- The printer logs

**Notes:**

- To generate a log, click **Request > Request Log**.
- You can request History Log, Embedded Solutions Log, Security Log, Fax Log, Last 10 Fax Logs, Last 10 Fax Error Logs, GZIP Logs, and MIB Walk.
- Use MIB Walk for investigating missing data from non-Lexmark printers. This option is available only for printers reporting through a Fleet Agent.

- The event history information, such as the event type, date, time, duration, and status

## Understanding diagnostic events

When the diagnostics events functionality is enabled for a partner fleet, Cloud Fleet Management services start collecting health data from printers regularly. This data is used to predict future failure and service actions to avoid printer downtime and avoid end-customer impact.

**Note:** The diagnostic events functionality is available only on request from Lexmark. This feature is not available for all.

**Notes:**

- Diagnostic events are generated when there is a printer-related or supply-related alert. Even if the alert that triggered the event is resolved, the diagnostic event appears in the Cloud Fleet Management portal until expiry. If the alert is not resolved until the expiry, a new diagnostic event is triggered for the same alert.
- The printer listing page features a Diagnostic event column with warning links to the details.
- The printer details page also lists all the diagnostic events generated by the alerts. You can view the details about the diagnostic events in the Status section of the printer details page.



## Viewing supplies and printer alerts

View errors and warnings about the printers and their supplies from the printer listing page.

- 1 From the Fleet Management web portal, click **Printers**.
- 2 From the printer listing page, view the supplies and printer alerts using the following:
  - Supply Alerts and Printer Alerts filters on the left navigation pane
  - Supplies view
  - Custom view containing the Supply Alerts and Printer Alerts columns

**Note:** To view more information about the alert, click the error or the warning from the Supply Alerts and Printer Alerts columns.

## Sending notifications to the printer control panel

You can set any of the following notifications to appear on the printer control panel:

- **Service has been scheduled**
- **Toner cartridge delivered**
- **Toner cartridge ordered**
- **Toner cartridge shipped**

The notification appears on the printer control panel for 48 hours, or until the user clears it or another notification is sent.

**Note:** This feature is available only in some printer models. For more information, see [“Supported printer models” on page 30](#).

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Select one or more printers.

**Note:** You can also configure individual printers using the printer information page. For more information, see [“Viewing printer information” on page 321](#).

- 3 Click **Printer > Send notification to panel**.
- 4 Select a notification.
- 5 Click **Send Notification**.

## Clearing notifications

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Select one or more printers.
- 3 Click **Printer > Clear notification**.
- 4 Click **Clear Notification**.

**Note:** Clearing notifications only clears the messages sent from Cloud Fleet Management.



## Creating tags

A tag is a custom text that you can assign to printers. When you filter a search using a tag, only printers with that tag are shown.

- 1 From the Fleet Management web portal, click **Printers > Tags > Create tag**.
- 2 Type a unique tag name.
- 3 Click **Save**.

## Assigning tags to printers

- 1 From the Fleet Management web portal, click **Printers**, and then select one or more printers.
- 2 Click **Tags**, and then select one or more tags.  
**Note:** If no devices are selected, then the available tags are disabled.
- 3 Click **Apply**.

## Using file import to tag printers

Users can import multiple IP addresses or serial numbers of associated printers in an organization and assign single or multiple tags to them. This feature helps users later identify and group devices in the portal based on customer requirements.

- 1 From the Fleet Management web portal, click **Printers**.
- 2 From the Tags menu, select **Tag printers using file import**.
- 3 From the Tag Printers Using File Import dialog box, do the following:
  - Type the name of the tag in the Search text box, or select one or more tags from the list.
  - Click Choose File to browse to the file that contains the printer serial numbers or IP addresses.

### Notes:

- The file size must not exceed 200KB.
- The file must be in TXT or CSV format.
- The file must have either **IP Address** or **Serial Number** as the header. The headers are not case-sensitive.
- The file must have relevant data along with the required header.
- The file must have valid IP addresses.
- The file must not have blank lines.

### Sample data for IP Address header

```
IP Address
10.195.2.10
10.4.5.100
10.194.8.182
```

### Sample data for Serial Number header

```
Serial Number
50621094752gk
```



502706946HRCD  
DUNES104SRL23

#### 4 Click **Tag Printers**.

##### **Notes:**

- If the list of IP addresses contains printers from both inside and outside the organization, then the Tag Printers Results Summary dialog box appears. The dialog box shows the number of printers that are tagged (inside the organization) and not tagged (outside the organization).
- If the list of IP address contains printers only from the organization, then the Tag Printers Results Summary dialog box does not appear.
- Even if a printer is already tagged, you can still add more tags to it.

## Removing assigned tags

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Select one or more printers.
- 3 Click **Tags**, and then clear one or more tags.
- 4 Click **Apply**.

## Managing tags

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Click **Tags > Manage tags**.
- 3 Do either of the following:
  - To delete tags, select one or more tags, and then click **Delete**.
  - To edit a tag, click a tag name, edit the tag, and then click **Save**.

## Updating agent access credentials

If the enrolled printer communication status is **Agent needs credentials**, then update the agent access credentials.

**Note:** If the printers are managed using the Printer Agent, then the agent access credentials can be updated using the Embedded Web Server. For more information, see [“Accessing the Printer Agent” on page 304](#).

The following steps are only applicable for Fleet Agent.

- 1 From the Fleet Management web portal, select a printer.
- 2 Click **Printer > Update agent access credentials**.
- 3 Select the authentication type for the printer administrator account, and then provide the credentials.
- 4 Click **Update Credentials**.

## Deploying files to printers

You can upload VCC bundles (.zip), UCF settings files (.ucf), and eSF application files (.fls) to printers.



The Virtual Configuration Center (VCC) is a feature component of the device firmware that assists in managing device settings. It allows users to export settings from one device and then import that settings package into a different device. A user can also export a settings bundle, edit that package, and then import the modified settings bundle to a new device.

You can export or import a UCF file using the application interface.

**Notes:**

- The file size must not exceed 50MB. For VCC bundles, the file size must not exceed 32MB.
- Firmware flash files are not supported.
- File and configuration deployment are not supported in some printer models. For more information, see [“Supported printer models” on page 30](#).

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Select one or more printers.
- 3 Click **Configure > Deploy apps and settings file**, and then browse to the file.
- 4 Click **Done**.

**Notes:**

- To cancel the file upload, click **Cancel**.
- VCC bundles support settings files, certificates, licenses, and eSF applications. However, we do not recommend deploying eSF applications through VCC bundles.
- If the deployment of a VCC bundle fails, then update the printer information to make sure that Lexmark Cloud Services contains the latest information. From the printers list, select one or more printers, and then click **Printer > Refresh printer information**.
- After configuring a device, you can export the configuration file (VCC or UCF files) and then import it in Lexmark Cloud Services to deploy it to printers. The passwords which are part of the configuration file get stripped during export. You must edit the configuration file manually to add the passwords before importing them to Lexmark Cloud Services.

## Managing applications

The Fleet Management web portal lets you manage the applications that are installed on the printers. Applications can be started, stopped, updated, or uninstalled.

### Managing applications from the printer details page

- 1 From the Fleet Management web portal, click **Printers**.
- 2 From the printers list, click the printer identifier.  
**Note:** For more information on setting the printer identifier, see [“Managing views” on page 319](#).
- 3 From the Installed Applications section, select one or more applications.
- 4 Do any of the following:
  - To start the applications, click **Start > Start App**.
  - To stop the applications, click **Stop > Stop App**.
  - To remove the applications, click **Uninstall > Uninstall App**.
  - To update the applications, click **Update > Update**.



**Notes:**

- Build-in application, or applications that came with the printer, cannot be removed or uninstalled using Lexmark Cloud Services.
- Only started applications can be stopped, and only stopped applications can be started.

**Managing applications from the printer listing page**

- 1** From the Fleet Management web portals, select two or more printers.
- 2** Click **Apps**, and then do any of the following:

**Start applications**

- a** Click **Start > Continue**.
- b** From the Start Apps window, select one or more applications.
- c** Click **Start Apps**.

**Stop applications**

- a** Click **Stop > Continue**.
- b** From the Stop Apps window, select one or more applications.
- c** Click **Stop Apps**.

**Update applications**

- a** Click **Update > Continue**.
- b** From the Update Apps window, select one or more applications.
- c** Click **Update Apps**.

**Uninstall applications**

- a** Click **Uninstall > Other apps > Continue**.
- b** Do either of the following:
  - To uninstall Cloud Print Management applications, click **Cloud Print Management**.
  - To uninstall specific applications, click **Other apps**, and then select one or more applications.
- c** From the Uninstall Apps window, select one or more applications.
- d** Click **Uninstall Apps**.

**Notes:**

- Build-in application, or applications that came with the printer, cannot be removed or uninstalled using Lexmark Cloud Services.
- Depending on the printer model, applications may have different names but perform the same function.

**Configuring the printer proxy settings**

If the organization is using an authenticated proxy server for communication, then configure the proxy server settings and credentials in the printer Embedded Web Server.



**Note:** The proxy credentials setting is available only in some printer models.

- 1 From the Embedded Web Server, do either of the following:

**Note:** For more information on identifying the printer eSF version, see [“Viewing the Embedded Solutions Framework \(eSF\) version” on page 49](#).

#### For printers with eSF version 5.0 or later

- a Click **Apps > App Framework Configuration**.
- b From the Framework Configuration section, clear **Use printer’s proxy settings**.
- c From the HTTPS: section, type the proxy server host name or IP address.
- d From the Proxy Credentials section, type the user name and password.







#### For printers with eSF version 4.0 or earlier

- a Depending on your printer model, do any of the following:
  - Click **Settings > Apps > Apps Management > System > Configure**.
  - Click **Settings > Device Solutions > Solutions (eSF) > System > Configure**.
  - Click **Settings > Embedded Solutions > System > Configure**.
- b Clear **Use printer’s proxy settings**.
- c From the HTTPS section, type the proxy server host name or IP address.
- d From the Proxy Credentials section, type the user name and password.

- 2 Save the settings.

## Customizing the printer home screen



**Note:** Make sure that the printer firmware is updated to the latest version. Also, make sure that you have updated to the latest version Printer Agent or Fleet Agent.

- 1 From the Fleet Management web portal, click **Printers**.
  - 2 Click the printer IP address, and then from the Home Screen section, do one or more of the following.
    - To view the current application arrangement, click **View home screen**.
    - To restore the default home screen view, click **Restore**.
    - To customize the home screen applications, do the following:
      - a Click **Customize**, and then do one or more of the following:
        - To add an application, click , select an application, and then click **Add**.
        - Note:** To search for an application, in the Search field, type the application name.
        - To move up an application, select an application, and then click .
        - To move an application as first in the list, select an application, and then click .
        - To move down an application, select an application, and then click .
        - To move an application as last in the list, select an application, and then click .
        - To move an application to another page, select an application, and then click .
- Note:** When the application is moved to another page, the application is added at the bottom of the destination page.



- To add a space between two applications, click  > **-BLANK SPACE-** > **Add**, and then move the space to its location.

**Notes:**

- You can move the space the same way you move the applications.
- While using Solution Composer in older Lexmark models, some workflows may appear at the end of the eSF applications list in the printer home screen. The home screen has the correct placement of the workflow, but Customize Home Screen and View Home Screen show the workflows at the end of the list. This issue is due to a firmware limitation so currently, there is no solution.
- To hide an application from the home screen, select an application, and then click .
- To manage the application on the succeeding page, click **Other Pages**.
- To restore the default home screen, click  > **Reset**.

**b** Click **Save Home Screen**.

**Notes:**

- Depending on your printer model, each home screen page can have up to 4, 8, 10, or 15 items. An item can be an application or a space.
- If the number of items exceeds the limit, then the items are added on the succeeding page.
- You can add **-BLANK SPACES-** to fill in a page, and have an application move to the succeeding page.

## Updating the printer firmware

You can update the firmware version of the printers in your organization. The Fleet Management web portal uses a product service that communicates with Lexmark Cloud Services to check for new firmware releases. The system checks for firmware updates daily. When a new firmware version is found, it is compared against the actual firmware installed on the printers, and then the firmware status is updated.

### Using the printer listing page

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Select one or more printers.
- 3 Click **Configure** > **Update firmware**.
- 4 In the Update Firmware dialog, do either of the following:

**Note:** The Update Firmware dialog shows the number of printers that have firmware updates available.

- Select **Now**.
- Select **Specific date and time**.
  - a Make sure that **Specific date and time** is selected.
  - b In the Scheduled task name field, type the name of the task.
  - c Configure the start date and start time.
  - d Select the time zone.
  - e In the Task window section, configure the time window for starting the task of all the selected printers.

- 5 Click **Update Firmware**.



**Notes:**

- The task window guarantees that no new firmware update jobs are submitted after the window expires. However, if an existing firmware update job started before the end of the window, then it will not be stopped and will be allowed to complete.
- Any firmware update job that gets launched in the specified window will expire.
- If you are updating firmware for many printers, then make sure that the task window is large enough.
- When you schedule a firmware update, a task is created. You can view the details of the task in the Tasks section.

**Using the printer details page**

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Click the printer IP address.
- 3 From the Firmware section, click **Update available**.

**Note:** This setting is available only when a firmware update is available.

- 4 Click **Update Firmware**

**Note:** You can downgrade the firmware level only when using a configuration that references a down-level firmware resource. For more information, see [“Creating a configuration” on page 336](#).

**Exporting eSF application versions**

Using this feature, administrators can export a report listing all the eSF applications installed and corresponding versions for a fleet. The fleet can be from a single organization or all organizations. Customers can determine eSF application version for an entire fleet and use Cloud Fleet Management to update the eSF applications or bundle.

- 1 From the Fleet Management web portal, click **Printers**.
- 2 From the Export to CSV menu, select **Export the installed application versions**.

**Note:** You can open the CSV file in Microsoft Excel. The sheet contains static columns listing the versions of the various applications installed in the fleet. The report contains all the applications that the device reported to the Lexmark Cloud Services.

**Unenrolling printers**

- 1 From the Fleet Management web portal, click **Printers**.
- 2 Select one or more printers, and then click **Printer > Unenroll printers**.
- 3 Click **Unenroll printers**.

**Notes:**

- Unenrolled printers are removed from the Fleet Management web portal printer listing.
- If the printer is enrolled using the Fleet Agent and is online, then unenrolling the printer removes it from the printer listing page. On the next scheduled Fleet Agent discovery, the printer is enrolled again. To remove the printer from the printer listing page permanently, delete the printer from the Include tab or exclude the printer from the discovery criteria.



- If the printer is enrolled using the Local Agent, then unenrolling the printer removes it from the printer listing page. On the next scheduled polling, the printer is enrolled again. To remove the printer permanently, unenroll the printer from the printer listing page or printer details page. Also, unplug the device from the Local Agent host computer.
- If the printers are enrolled using the Printer Agent, then the Printer Agent remains installed on the unenrolled printers.
- Any configuration that is deployed remains installed after unenrolling the printers.
- If Cloud Print Management applications are installed, then they remain installed and continue to work after the printer is unenrolled.
- Unenrolling of printers cannot be stopped. For more information, see [“Managing tasks” on page 351](#).

## Exporting fleet information

- 1 From the Fleet Management web portal, select a view, or filter the printer information.
- 2 Click **Export to CSV**.

**Note:** This feature exports all information present in the current view and current filters that are applied.

# Apps Management

## Managing installed applications

In Lexmark Cloud Services, you can manage all the applications installed in various enrolled printers. To access the Apps page, from the Fleet Management web portal, click **Printers > Apps**.

In the Apps page, you can use the following filters:

- **Available**—Filters the applications that have available updates.
- **No update available**—Filters the applications that have no updates.
- **Required**—Filters the applications that require immediate update.

To export the application report in CSV format, click **Export App Version**.

### Notes:

- In the Apps page, the Printers column shows the number of printers that have the applications installed.
- The Built-in On Printers column shows the number of printers that have the applications already built-in.
- The App Update column shows whether an application has an available update. It also shows if an application requires an immediate update.
- The Printers With Update column shows the number of printers that have an update available or require an immediate update.

## Managing an application from the Apps page

- 1 From the Apps page, select an application.
- 2 From the applications details page, select one or more printers.

**Note:** The application details page lists the printers where the application is installed.



**3** Do any of the following:

- **Start**—Starts the application.
- **Stop**—Stops the application.
- **Uninstall**—Uninstalls the application.
- **Update**—Updates the application.
- **Export to CSV**—Exports the report of the application in CSV format.

**Notes:**

- In the application details page, the App Update column shows whether an associated printer has an available update. It also shows whether a printer requires an immediate update.
- The Installed Version column shows the version number of the application installed in a particular printer.
- The App Update Version column shows the version number of the available application update.
- The Minimum Version column shows the minimum version of an application required by the printer.

## Using a mobile device

### Accessing the Cloud Fleet Management portal

You may access the portal using one of the following supported mobile web browsers:

- Apple Safari version 13 or later
- Google Chrome version 83 or later
- Samsung Internet version 9.2 or later

**1** From your mobile device, open a supported web browser.

**2** Access the Lexmark Cloud Services website.

**3** Type your e-mail address and password.


**Note:** If the system is configured to have federated access, then you are redirected to the login page of your organization.

**4** Tap **Fleet Management**, and then, if necessary, select an organization.







## Navigating the home page

**Note:** Some features of the Fleet Management portal are not available on the mobile version. To enable all features, view the portal on a web browser for desktop.

- To change the organization, depending on the screen size, tap either **Select Organization** or  > **Select Organization**.


**Note:** This feature is available to Partner Administrators and Organization Administrators that manage multiple organizations.

- To view all managed printers, do one of the following:
  - Tap **Managed Printers**.
  - Depending on the screen size, tap either **Printers** or  > **Printers**.
- To view printers with communication errors, tap **Communication Errors**.
- To view printers with alerts, tap **Printer Alerts**.
- To view printers with supply alerts, tap **Supply Alerts**.
- To view printers that require firmware updates, tap **Firmware Updates**.
- To send your comments or suggestions, depending on the screen size, tap either **Feedback** or  > **Feedback**.
- To view the desktop version of the portal, depending on your web browser, do one of the following:
  - On the upper-left corner of the display, tap  > **Request Desktop Website**.
  - On the lower-right corner of the display, tap  > **Request Desktop Site**.

## Managing printers



- 1 From the Cloud Fleet Management portal, tap **Managed Printers**.

### Notes:

- The mobile device screen resolution determines the number of columns shown.
- Rotating your mobile to landscape, depending on the screen size, shows up to eight columns.
- To sort the printer list, tap the column name.
- To configure the information to show for each column, tap .

- 2 Tap a printer, and then tap **Details**.

To narrow down the list, do one of the following:

- In the Search field, type a printer IP address, and then tap .
- Tap , and then select one or more filters.


- 3 Do one or more of the following:

- View printer identification, communication status, page counts, and event history.
- Refresh the printer information.
- Reboot a printer.
- View printer and supply alerts.





- Send a panel notification. From the Panel Notifications section, select a notification, and then tap **Send Notification**.
- Clear panel notifications.
- View agent information. For printers that are managed using a Fleet Agent, tap **Go to Fleet Agent** to manage the Fleet Agent. For more information, see [“Managing Fleet Agents” on page 335](#).

## Managing Fleet Agents

- 1 From the Cloud Fleet Management portal, tap  > **Fleet Agents**.

To narrow down the list, do one of the following:

- In the Search field, type a Fleet Agent name, and then tap .
- Tap , and then select one or more filters.

- 2 Tap a Fleet Agent, and then tap **Details**.

- 3 Do one or more of the following:

- View agent status, version information, agent settings, and system host.
- To initiate printer discovery and enrollment, tap **Discover & Enroll Printers**.
- To update the Fleet Agent or the printer support library, from Version Information section, tap **Update Available** > **OK**.

**Note:** The Update Available button shows only if an update is available.

- View printer discovery schedule.
- View event history.

## Updating the firmware

- 1 From the Cloud Fleet Management portal, tap **Firmware Updates**.
- 2 Tap the printer, and then tap **Details**.
- 3 From the Identification section, tap **Update Firmware** > **Update Firmware**.

## Managing resources and configurations

### Adding files to the resource library

The resource library is a collection of firmware files, UCF files, printer settings, and applications that are imported to Fleet Management. These files can be associated with one or more configurations.

- 1 From the Fleet Management web portal, click **Configurations**.
- 2 Click **Resource Library** > **Create** or **Create Resource**.
- 3 Type the resource name and description.



**4** Select the resource type.

- **UCF file**

Click **Choose File**, and then browse to the file.

- **Settings bundle**

Click **Choose File**, and then browse to the file.

- **Firmware**

Type the URL link or the build name, and then click **Verify**.

**Note:** To obtain the URL link or the build name, contact the Lexmark Customer Support Center.

- **Imported app**

Click **Choose File**, and then browse to the file.

**5** Click **Create Resource**.

## Managing the resource library

**1** From the Fleet Management web portal, click **Configurations**.

**2** Click **Resource Library**, and then do either of the following:

### Edit a resource

**a** Click a resource name, and then edit the name or description.

**b** Click **Save Changes**.

**Note:** You cannot edit resources that are assigned to a configuration.

### Delete resources

**a** Select one or more resources, and then click **Delete**.

**b** Click **Delete Resources**.

**Note:** You cannot delete resources that are assigned to a configuration. If the configuration that references the resource is deleted, then the resource can be deleted.

- To download an application resource, click the resource name, and then click **Download the imported app for this resource**.

- To download printer settings resource, click the resource name, and then click **Download the Settings bundle for this resource**.

**Note:** To view resources by type, click **Type**, and then select the resource type.

## Creating a configuration

A configuration is composed of firmware, applications, and printer settings (UCF or settings bundle) that can be deployed to a printer or a group of printers. When you create a configuration, that new configuration is universal and could apply to all printer models. Lexmark Cloud Services determines what elements of a component apply to each printer model, except for settings files that are deployed to all printer models.

**1** From the Fleet Management web portal, click **Configurations > Configurations**, and then click **Create** or **Create Configuration**.

**2** Type a unique configuration name and description.



**3** Do any of the following.

### Add firmware

- To use the recommended firmware for all printer models, from the Firmware tab, select **Update all models to the recommended firmware version**.
- To use firmware from the resource library, click **Select Firmware**, select one or more firmware resources, and then click **Select Firmware**.

**Note:** For more information, see [“Adding files to the resource library” on page 335](#).

- To upload firmware, do the following:

- 1** Click **Upload Firmware**.
- 2** Type the resource name and description.
- 3** Type the URL or the build name, and then click **Verify**.

**Note:** To obtain the URL or the build name, contact the Lexmark Customer Support Center.

- 4** Click **Upload Firmware**.

- 5** Do either of the following:

- **Save as Draft**—Save a draft version of the configuration. A configuration in draft status cannot be deployed to a printer.
- **Publish**—Publish a configuration. In the Publish Configuration window, type the version notes, and then click **Publish Configuration**.

**Note:** To cancel the configuration, click **Cancel**.

You can set the firmware component to **Update all models to the recommended firmware version** and also contain one or more specific firmware resources. A specific firmware resource applies only to a small set of printers. When using multiple firmware resources, the following behaviors can be observed:

- If a configuration contains only the **Update all models to the recommended firmware version** setting, then printers with firmware older than the recommended level are updated. Printers with firmware at the recommended version or newer are not updated.
- If, aside from the setting, a configuration also contains specific firmware resources, then all printers that match the models in the specific firmware are updated. All other printers are updated to the recommended firmware version.
- If a configuration contains only specific firmware resources, then all printers that match the models in the specific firmware are updated. All other printers are not updated.

**Note:** If a specific firmware resource is a downgraded version, then all the eSF applications are removed. The built-in applications are restored to the requested down-level firmware. The Printer Agent is also deleted, and the printer must be enrolled again in Cloud Fleet Management.

### Add applications

- To add applications, do the following:
  - 1** From the Apps tab, click **Select Apps**.
  - 2** Select one or more applications, and then click **Next**.

**Notes:**

- To view the information about the application, click **More Info**.



- If Cloud Scan Management and Translation Assistant are coexisting along with Card Authentication, then these applications must be selected in the Card Authentication permissions. This action makes the applications accessible from the printer control panel.
- When creating a configuration for Cloud Print Management, Translation Assistant, or Cloud Scan Management applications, make sure that you configure the Pluggable Authentication Module setting properly. If the printer is not managed by another authentication application, then enable this setting. This action allows Cloud Authentication to be used as the main authentication application that manages the printer security.
- If the printer has another authentication application managing its security, then make sure to disable the Pluggable Authentication Module setting.
- The Cloud Print Management applications may not work with some authentication applications. For more information on the limitations, see the *Cloud Authentication Readme File*.

**3** Click **Done**.

**4** If necessary, click the application name, and then configure the application settings.

**Note:** Some application settings cannot be modified from the Fleet Management web portal. To configure these settings manually, access the configuration page for the application from the printer Embedded Web Server. For more information, see the *Administrator's Guide* for the application.

If you select Cloud Print Management, then you must configure the Pluggable Authentication Module setting to make Cloud Authentication as the primary authentication application.

**a** Expand **Cloud Print Management** settings.

**b** From the Basic settings section, select **Enable pluggable authentication module**.

**5** Do either of the following:

- **Save as Draft**—Save a draft version of the configuration. A configuration in draft status cannot be deployed to a printer.
- **Publish**—Publish a configuration. In the Publish Configuration window, type the version notes, and then click **Publish Configuration**.

**Note:** To cancel the configuration, click **Cancel**.

- To upload applications, do the following:

**1** From the Apps tab, click **Upload App**.

**2** Type the resource name and description.

**3** Click **Choose File**, and then browse to the file.

**4** Click **Upload App**.

**5** Do either of the following:

- **Save as Draft**—Save a draft version of the configuration. A configuration in draft status cannot be deployed to a printer.
- **Publish**—Publish a configuration. In the Publish Configuration window, type the version notes, and then click **Publish Configuration**.

**Note:** To cancel the configuration, click **Cancel**.

## Add printer settings files

- To use printer settings from the resource library, do the following:

**1** From the Printer Settings Files tab, click **Select Settings File**.

**2** Select one or more settings resources, and then click **Select Settings File**.



**3** Do any of the following:

- **Save as Draft**—Save a draft version of the configuration. A configuration in draft status cannot be deployed to a printer.
- **Publish**—Publish a configuration. In the Publish Configuration window, type the version notes, and then click **Publish Configuration**.

**Note:** To cancel the configuration, click **Cancel**.

- To upload printer settings, do the following:

**1** From the Printer Settings Files tab, click **Upload Settings File**.

**2** Type the resource name and description.

**3** Select a resource type.

**4** Click **Choose File**, and then browse to the file.

**5** Click **Upload Settings File**.

**6** Do either of the following:

- **Save as Draft**—Save a draft version of the configuration. A configuration in draft status cannot be deployed to a printer.
- **Publish**—Publish a configuration. In the Publish Configuration window, type the version notes, and then click **Publish Configuration**.

**Note:** To cancel the configuration, click **Cancel**.

**Note:** To change the order of the settings deployment, drag the setting up or down the list. This function is applicable only for settings in a nondeployed configuration.

## Configure printer settings


- To modify the printer settings according to the requirements of the configuration, do the following:

**1** From the Printer Settings tab, select .

**2** Expand the settings category to navigate to a particular setting.

**Note:** To search for a particular setting, type the name of the setting in the search box. The search result shows all the paths in the tree that navigate to the particular string.

**3** Select or enter the values for the settings.

**Note:** To view the summary of the modified settings, click .

**4** Do either of the following:

- **Save as Draft**—Save a draft version of the configuration. A configuration in draft status cannot be deployed to a printer.
- **Publish**—Publish a configuration. In the Publish Configuration window, type the version notes, and then click **Publish Configuration**.

**Note:** To cancel the configuration, click **Cancel**.

- To import the printer settings, do the following:

**1** From the Printer Settings tab, select **Import Settings Bundle**.

**2** In the Import Settings Bundle dialog, select either of the following sources:

- **File upload**—Choose a settings bundle from your disk.

**Note:** The file must be in ZIP format.

- **Resource Library**—Select a settings bundle from the Resource Library.



- 3 After selecting the file, click **Continue**.

**Notes:**

- Only new settings and existing settings with different values are imported.
- Settings that are unsupported or have invalid values are not imported.

- 4 Click **Import Settings Bundle**.

**Note:** For more information on adding resources to the resource library, see [“Adding files to the resource library” on page 335](#).

## Managing configurations

- 1 From the Fleet Management web portal, click **Configurations**.

- 2 Click **Configurations**, and then do any of the following:

- To delete configurations, select one or more configurations, and then click **Delete > Delete Configurations**.

**Note:** Deleting configurations does not remove them from printers to which they are already deployed.

- To copy a configuration, do the following:

- a Select a configuration, and then click **Copy**.
- b Type a unique configuration name.
- c Select the organization where you want to copy the configuration to.

**Note:** This setting is available only when you are managing multiple organizations.

- d Select **Edit configuration after copy**.

**Note:** This setting is available only when you are copying to the same organization.

- e Click **Copy Configuration**.
- f Configure the settings.
- g Click **Save Changes**.

**Notes:**

- Deployed configurations cannot be edited, but can be copied and saved as a new editable configuration.
- If a configuration contains resources, such as firmware, applications, and settings files, and is copied to the same organization, then those existing resources are used. If the configuration is copied to a different organization, then those resources are copied to the destination organization.
- To set a default configuration, select a configuration, and then click **Set as Default**. The default configuration is assigned to newly enrolled printers automatically. To remove the configuration as the default configuration, select the configuration, and then click **Remove Default**.
- On the Configurations page, you can view the following columns:
  - **Last Editor**—Shows the user who last edited the configuration
  - **Latest Published Version**—Shows the latest published version of the configuration.
  - **Publisher**—Shows the name of the user who published the configuration.
  - **Date Published**—Shows the date when the configuration was published.



## Editing or copying a published configuration

- 1 From the Fleet Management web portal, click **Configurations**.
- 2 Select the configuration that you want to edit or copy.
- 3 Do either of the following:

### Create a draft

- a Click **Create New Draft > Create New Draft**.
- b Edit the details.
- c Do any of the following:
  - **Save as Draft**—Save a draft version of the configuration. A configuration in its draft status cannot be deployed to a printer.
  - **Publish**—Publish a configuration. In the Publish Configuration window, type the version notes, and then click **Publish Configuration**.
  - **Delete**

**Note:** To cancel the configuration, click **Cancel**.

### Copy a configuration

- a Click **Copy Configuration**.
- b From the Copy Configuration window, type the name of the configuration and select the configuration of the organization that you want to copy.
- c Click **Copy Configuration**.
- d If necessary, from the new configuration page, edit the details.
- e Do any of the following:
  - **Save as Draft**—Save a draft version of the configuration. A configuration in draft status cannot be deployed to a printer.
  - **Publish**—Publish a configuration. In the Publish Configuration window, type the version notes, and then click **Publish Configuration**.
  - **Delete**

**Note:** To cancel the configuration, click **Cancel**.

## Deploying configurations to printers

Deploying a configuration to printers sends the configuration to the cloud server, and updates the printer during the next scheduled poll or sync.

**Note:** Configuration deployment may not be supported in some printer models. For more information, see [“Supported printer models” on page 30](#).

- 1 From the Fleet Management web portal, click **Printers**, and then select one or more printers.
- 2 Click **Configure > Deploy configuration**.
- 3 From the Deploy Configuration window, select a configuration, and then click **Deploy Configuration**.

### Notes:

- You can only deploy the published configurations.



- The list of configurations is sorted according to the last modified date, with the most recent configurations listed at the top of the list.
- Published configurations cannot be edited, but can be copied and saved as a new draft.
- When a configuration is deployed, there is an implicit order of deployment to the printer. Firmware is deployed first. Applications are deployed second, in the same order that they appear in the configuration. Settings files are deployed last, in the same order that they appear in the configuration.
- If the configuration contains applications and the organization is using an authenticated proxy server, then configure the printer proxy server settings. For more information, see [“Configuring the printer proxy settings” on page 328](#).

## Performing configuration policy conformance and enforcement

### Assigning a configuration

You can assign a configuration to one or more printers.

- 1 From the Fleet Management web portal, click **Printers**, and then select one or more printers.
- 2 Click **Configure > Assign Configuration**.
- 3 In the Assign Configuration window, search for the configuration, and then click **Assign Configuration**.

**Notes:**

- You can assign configuration only to Lexmark printers enrolled through a Fleet Agent.
- The Fleet Agent must be version 1.3.49 or later.
- After assigning a configuration, you can see the name of the configuration under the Assigned Configuration column.

### Unassigning a configuration

- 1 From the Fleet Management web portal, click **Printers**, and then select one or more printers.
- 2 Click **Configure > Unassign Configuration**.
- 3 From the Unassign Configuration window, click **Unassign Configuration**.

### Checking the conformance of a printer

You can check the conformance of a printer against an assigned configuration.

- 1 From the Fleet Management web portal, click **Printers**, and then select one or more printers.
- 2 Click **Configure > Check conformance**.

**Note:** A task is created. The Status column shows the result of the conformance check.



## Enforcing assigned configuration

If a conformance check fails, then you can still enforce an assigned configuration to one or more printers.

- 1 From the Fleet Management web portal, click **Printers**, and then select one or more printers.
- 2 Click **Configure > Enforce assigned configuration**.

**Note:** A task is created. The Status column shows the result of the conformance check.

## Managing notifications

### Creating a notification policy

You can create notification policies for printers. Users receive an email when the policy requirement is met. The notification email includes printer toner details, asset tag, fleet agent information, and other relevant details.

- 1 From the Fleet Management web portal, click **Notifications > Notification Policies**.
- 2 Select **Supplies**, **Printer Information**, or **Fleet Agents**.

#### For supplies

- a On the Notification Policies page, click **Create**.
- b Configure the following:
  - In the Policy name field, type the name of the policy.
  - In the Policy type menu, select one of the following:
    - **Toner**
    - **Fuser**
    - **Transfer Module**
    - **Waste Toner Bottle**
    - **Maintenance Kit**
    - **Photoconductor**
  - In the “Notify when percentage remaining is of” section, set the percentage at which the notification is sent.
  - In the Applies To section, select either of the following:
    - **All printers in this organization**—Apply the policy to all printers in the organization.
    - **Only printers with specific tags**—Apply the policy to printers with specific tags applied from Cloud Fleet Management.
      - In the “Apply the policy to printers with the following tags” field, type the tags, and then click **Add**.
  - In the “Notify the following email addresses when the conditions of this policy are met” field, type the recipient email addresses, and then click **Add**.

#### Notes:

- Make sure that the email address is valid.
- You can type an email address from outside your organization.



- In the “Additional information to include in the email notification (Optional)” field, type the additional information that you want to include in the email.
- Select **Include notification data in a .json file as an attachment** to include the JSON file in the email.

**c** Click **Create Policy**.

**Note:** The JSON file attached to the notification email helps partners to use email processing automation to process the attachment for any existing workflow.

### For printer information

**a** On the Notification Policies page, click **Create**.

**b** Configure the following:

- In the Policy name field, type the name of the policy.
- In the Policy type menu, select **Last data refresh** or **Last communicated**.
- In the “Notify when data has not been refreshed after” or “Notify when a printer has not communicated for” section, set the number of days to send the notification.
- In the Applies To section, select either of the following:
  - **All printers in this organization**—Apply the policy to all printers in the organization.
  - **Only printers with specific tags**—Apply the policy to printers with specific tags applied from Cloud Fleet Management.

**Note:** You can add up to 10 tags.

- In the “Notify the following email addresses when the conditions of this policy are met” field, type the recipient email addresses, and then click **Add**.

**Notes:**

- You can add up to 10 email addresses.
- Make sure that the email address is valid.
- You can type an email address from outside your organization.
- In the “Additional information to include in the email notification (Optional)” field, type the additional information that you want to include in the notification email.
- Select **Include notification data in a .csv file as an attachment** to include the CSV file in the notification email.

**c** Click **Create Policy**.

**Notes:**

- Policies related to printer information are executed during the daily batch process.
- The body of the notification email can contain information about 15 printers only. For more than 15 printers, download the CSV file that is attached with the notification email.
- For notifications for more than 15 printers, the CSV file is attached to the notification email, even if the user has not selected the “Include notification data in a .csv file as an attachment” option.

### For fleet agents

**a** On the Notification Policies page, click **Create**.

**b** Configure the following:

- In the Policy name field, type the name of the policy.
- In the Policy type menu, select **Last communicated**.



- In the “Notify when an agent has not communicated for” section, set the number of days to send the notification.
- In the “Notify the following email addresses when the conditions of this policy are met” field, type the recipient email addresses, and then click **Add**.

**Notes:**

- You can add a maximum number of 10 email addresses.
- Make sure that the email address is valid.
- You can type an email address from outside your organization.
- In the “Additional information to include in the email notification (Optional)” field, type the additional information that you want to include in the notification email.
- Select **Include notification data in a .csv file as an attachment** to include the CSV file in the notification email.

**c** Click **Create Policy**.

## Duplicating a notification policy

- 1** On the Notification Policies page, select an existing notification policy.
- 2** Click **Duplicate**.
- 3** On the Create Notification Policy page, enter the details.

**Note:** For more information on configuring the notification policy, see [“Creating a notification policy” on page 343](#).

- 4** Click **Create Policy**.

**Note:** Apart from the policy name, make sure that you edit other details on the Create Notification Policy page. You cannot create a duplicate of an existing policy just by changing the policy name and keeping the other deciding parameters the same.

## Deleting a notification policy

- 1** On the Notification Policies page, select the policy that you want to delete.
- 2** Click **Delete > Delete Policy**.

## Viewing the notification history

Notification history is a rolling 30-day history of all email notifications sent to a particular organization.

- 1** From the Fleet Management web portal, click **Notifications > Notification History**.
- 2** Select **Supplies** or **Printer Information**.
- 3** Use the following filters for the notification history.

**For supplies**

- Model
- Policy Type
- Supply



**For printer information**

- Policy Type
- Model

**Note:** You can search for notifications using the printer serial number, asset tag, and email address.

## Understanding MPS Express

### Adding printers to MPS Express

MPS Express is a program that allows partners to sign up with Lexmark for consumables maintenance. For more information on Managed Print Services offerings, contact your Lexmark representative.

Before you begin, make sure that:

- The printers are enrolled in Lexmark Cloud Services. For more information on fleet management and enrolling printers, see [“Fleet Management” on page 289](#).
- The printers meet the eligibility criteria for MPS Express. For more information on eligibility criteria, see [“Printer Eligibility Status” on page 349](#).

#### Scenario 1: The Child Organization does not have the MPS Express entitlement

- The child organization is created for MPS Express.
- The child organization is not yet entitled to MPS Express.

**Solution**

Entitle the child organization to MPS Express. For more information, see [“Entitle child organization to MPS Express” on page 347](#).

#### Scenario 2: The supply delivery contact does not exist

- Child organization is entitled to MPS Express.
- No existing supplies delivery contact.

**Solution**

Create a supplies delivery contact and assign it to the appropriate printers. For more information, see [“Create and assign a supplies delivery contact” on page 349](#).

#### Scenario 3: The supplies delivery contact is not yet assigned

- Child organization is entitled to MPS Express.
- Required supplies delivery contact exists.
- Supplies delivery contact not assigned to printers.


**Solution**

Assign a supplies delivery contact to the appropriate printers. For more information, see [“Assign supplies delivery contact” on page 349](#).



## Entitle child organization to MPS Express

- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Click the **Account Management** card.

**Note:** If the card is not visible on the dashboard, then click  on the upper-right corner of the page, and then click **Account Management**.

- 3 Select the parent organization which contains the child organization, and then click **Next**.
- 4 Click the **Child Organizations** tab.
- 5 Click the child organization name that you want to entitle to MPS Express.

**Note:** For more information on managing child organization, see [“Managing the Child Organization Access Group” on page 243](#).

- 6 From the Organization menu, click **Organization Entitlements**.
- 7 Select MPS Express, and then click **Save Changes**.

Select Organization > CA\_CFM\_MPS\_Entitled\_1 > Organization Entitlements

### Organization Entitlements

#### Select the entitlements to provision for this organization

☒ MPS Express

*MPS Express is a managed service offering that enables this organization to add printers under Lexmark management. This cannot be unchecked once enabled.*

Save Changes

Discard Changes

**Important Note:** You cannot undo organization entitlement to MPS Express. Contact your Lexmark Customer Operations Specialist or MPS Offer Manager to remove the MPS entitlement from a child organization.

## Managing contacts

- 1 From the Fleet Management web portal, click **Printer > Managed Print Services > Manage Contacts**.
- 2 On the Contacts page, do any of the following:

### Create a contact

- a On the Contacts page, click **Create**.
- b Complete the contact details form, and then click **Create Contact**.

### Import a contact

- a On the Contacts page, click **Import**.

**Note:** If there are no existing contacts, then click **Import Contacts**.

- b From the Import Contacts window, click **Choose File** to browse for the contact file.



**Notes:**

- The contact file must be either a CSV or a TXT file. Even if the file is a TXT file, the data must be in CSV format.
- You can download the sample file to view the format.
- The contact file must have all the columns and in the same sequence as mentioned in the sample file. If there is no data for a particular column, then you can leave it blank. Do not delete any column.
- The data for each of the columns must be valid. For instance, the Country code must not have any symbols. It only supports numerics. If you are using a text editor to edit the CSV file, then you must enclose data within " " to insert a comma in between. For instance, if you want to insert a comma between two values which are **A** and **B**, then it must be "**A, B**". This is not required if you are using a spreadsheet to edit the data as spreadsheet saves the file in the applicable format.
- In a single file, you can import a maximum of 300 contacts.
- You must save the CSV file in UTF8 format to handle different non-ASCII characters.

**c Click Import Contacts.**

**Note:** If the data in the contact file is valid, then the Import Contacts Results window displays **Contacts imported**. Contacts are added one after another in sequence. Depending on the number of contacts, the upload process can take several minutes to complete.

**Error messages**

If the data in the contact file is not valid, a Import Contacts Results window appears. This window displays the error messages. On clicking the error messages, you can get the details of the error. The following are the types of errors messages:

- **Contacts already exists**—Shows the row number, first name, and last name of each contact that already exists in the organization.
- **Contacts not imported**—Shows the row number range of the contacts that are not imported because of either System error or Import canceled.
  - **System error**—Occurs when there is an error incurred by the system.
  - **Import canceled**—Occurs when the user cancels the upload process.
- **Contacts with missing or invalid information**—Shows the row number, column, and reason for not importing the contact.

**Edit a contact**

- a On the Contacts page, click the name of an existing contact.
- b Edit the contact information.
- c Click **Update Contact**.

**Duplicate a contact**

- a On the Contacts page, select a contact.
- b Click **Duplicate**.
- c Click **Create Contact**.



**Delete a contact**

- a** On the Contacts page, select a contact.
- b** Click **Delete**.
- c** Click **Delete Contact**.

**Note:** You cannot delete a contact that is assigned to a printer.

**Create and assign a supplies delivery contact**

- 1** From the Fleet Management web portal, select one or more printers.
- 2** Click **Printer > Managed Print Services > Create and assign new supplies delivery contact**.
- 3** In the Create and Assign Supplies Delivery Contact window, enter the name, contact information, and shipping address details of the new contact.
- 4** Click **Create and Assign**.

**Assign supplies delivery contact**

- 1** From the Fleet Management web portal, select one or more printers.
- 2** Click **Printer > Managed Print Services > Assign supplies delivery contact**.
- 3** In the Assign Supplies Delivery Contact window, search for the contact name.

**Note:** You can filter or search by business name or city.

- 4** Select the contact from the search results.
- 5** Click **Assign Contact**.

**Add printers to MPS Express**

- 1** From the Fleet Management web portal, select one or more printers.
- 2** Click **Printer > Managed Print Services > Add to MPS Express**.

**Printer Eligibility Status**

The eligibility information is provided:

- **Eligible**—Shows the number of printers eligible for MPS Express.  
**Note:** You can add printers only if their status is Eligible. Printers with any other eligibility status cannot be added to the MPS Express program.
- **Printer already managed**—Shows the number of printers that are already managed.
- **Printer pending management**—Shows the number of printers that already have a pending management request.
- **Printer failed registration**—Shows the number of printers that failed to register with Lexmark Cloud Services. You must contact Lexmark Technical Support for assistance.
- **Model not supported**—Shows the number of printer models that are not supported. For help, contact your Lexmark Customer Operations representative.
- **Lifetime page count exceeds maximum allowed**—Shows the number of printers which have exceeded the maximum lifetime page count limit to qualify for MPS Express. For help, contact your Lexmark Customer Operations representative.



- **Lifetime page count missing**—Shows the number of printers with an unknown lifetime page count. These printers are missing a lifetime page count value for verifying eligibility for MPS Express. To fix this issue, you can update the associated agent or the printer firmware, or unenroll and re-enroll the printer. If the lifetime page count is still missing, contact Lexmark Technical Support for help.
- **No supplies delivery contact assigned**—Shows the number of printers which have no supplies delivery contact assigned.
- **Associated with down-level fleet agent**—Shows the number of printers which have lower versions of fleet agent than the required version. You must upgrade your Fleet Agent from the agents tab before adding these printers to the MPS Express program.

**Note:** On clicking the printer eligibility statuses, you can view the serial numbers and models of the non-eligible printers.

**3** Click **Continue**.

**4** Accept the terms of service.

**5** Click **Add to MPS Express**.

**Notes:**

- In the printer listing page, you can use the Business name, Lexmark Managed, and Supplies Delivery Contact columns for information related to entitled organizations. You can also enable all these columns by selecting the Managed view from the Views menu.
- If you are part of the parent organization, then you cannot access Add to MPS Express. You can only add printers to MPS Express which are enrolled in a child organization. Please create a supplies delivery contact and assign to the printer, and try enrolling into MPS Express again.

**Important Note:** You cannot undo MPS Express enrollment. Contact your Lexmark Customer Operations Specialist to delete or unenroll printers.

## Limitations of unenrolling printers managed by MPS Express

From the Cloud Fleet Management portal, you cannot unenroll printers that are already enrolled in MPS Express or have a pending enrollment request.

You also cannot delete or deactivate agents that have enrolled these printers.

### What happens if you try to unenroll MPS Express managed printers from the printer listing page?

From the printer listing page, if you try to unenroll a combination of MPS Express and MPS Express (Pending) printers, an error message appears. If you try to unenroll a combination of MPS Express, MPS Express (Pending), and unmanaged printers, then the task will be completed with an error. Only the unmanaged printers will be unenrolled. You can find more details about the error by clicking the Task ID.

The printer listing page features a Lexmark Managed column that identifies printers that are already enrolled in MPS Express or have a pending enrollment request. Printers that are already enrolled in MPS Express are identified as MPS Express. Printers that are pending enrollment are identified as MPS Express (Pending).



## What happens if you try to unenroll MPS Express managed printers from the printer details page?

From the printer details page, you cannot unenroll printers that are already enrolled in MPS Express or have a pending enrollment request.

### Notes:

- The printer details page of a printer that has the Lexmark Managed status of either MPS Express or MPS Express (Pending) will not have the Unenroll option.
- The printer details page also identifies the printer as Lexmark Managed and MPS Express or MPS Express (Pending).

## What happens if you try to unenroll MPS Express managed printers from the agents tab?

If an agent is associated with MPS Express or MPS Express (Pending) printers, then the agent details page shows the number of MPS Express managed printers associated with the agent. This feature helps you to identify an agent that is associated with MPS Express or MPS Express (Pending) printers. You cannot delete or deactivate these agents.

**Note:** You cannot unenroll a printer by deleting it from the **Add Discovery Criteria to Include** section of the agents details page. The printer will still appear on the printer listing page, but will have a noncommunicating status. To get the printer communicating, add its IP address in the **Add Discovery Criteria to Include** section of the agents details page.

**Note:** Even if an agent is uninstalled at the operating system level, the printer listing page will still retain the managed printer's details.

## Managing tasks

Tasks are any printer management activities performed in the Fleet Management web portal, such as configurations deployment. The Tasks page shows information about the running tasks and the completed tasks. A task can contain one or more jobs.

From the Fleet Management web portal, click **Tasks**.

### Understanding the task status

- **Completed**—All jobs are successfully completed or stopped.
- **Completed with info**—All jobs are successfully completed.
- **Completed with warning**—All jobs are completed, but some have warnings.
- **Completed with errors**—A combination of successfully stopped and failed jobs.
- **Failed**—At least one job has failed or expired.
- **Printer is not communicating**—The jobs are not submitted because the printer cannot communicate with the Fleet Management web portal. For more information, see [“The printer is not communicating with the agent” on page 434](#).
- **Not supported**—The jobs are not supported in the printer.



## Viewing the task information

1 From the Tasks page, click the task ID.

2 Do either of the following:

- To filter the list according to the job status, click **Status**, and then select one or more statuses.
  - **Pending**—The job is waiting for the Printer Agent to respond. The default timeout for undelivered jobs is one week. The job expires automatically after the timeout has elapsed.
  - **In progress**—The job is ongoing. The default timeout for in-progress jobs is 24 hours. The job expires automatically after the timeout has elapsed.
  - **Completed**—The job is successfully executed.
  - **Failed**—The job is unsuccessful.
  - **Stopped**—The user stopped the job while it is in the Pending state.
  - **Expired**—The job exceeded the timeout.
- To export the list, click **Export to CSV**.

**Note:** If you have a filtered list, then only the filtered jobs are exported.

## Stopping tasks

Do either of the following:

- Stop a task.

From the Tasks page, click **Stop** beside the task status.

**Notes:**

- Only pending tasks for a printer can be stopped.
  - Unenrolling of printers cannot be stopped.
- Stop individual jobs.

From the Tasks page, click a task ID, and then click **Stop** beside the job status.

**Note:** Only pending jobs can be stopped.



# Print Management

## Overview

**Note:** The screenshots may vary depending on the latest release.

Use the Cloud Print Management web portal to do the following:

- Configure organizational policies.
- Define and assign user quotas.
- Manage print queues.
- Delegate print jobs.
- Download the Lexmark Print Management Client for Windows, macOS, and Ubuntu operating systems.
- Create a custom Lexmark Print Management Client package.
- Download the Lexmark Cloud Print Management for Chrome web browser extension.
- View user quota status.

The Print Management web portal also works with the following applications:


- **Print Release (eSF application)**—An enterprise-grade printing solution for managing print jobs from the printer. For more information, see the *Print Release Administrator's Guide*.
- **Lexmark Print Management Client**—A computer application for submitting print jobs securely to Cloud Print Management.
- **Lexmark Print**—An application for sending documents directly to network-connected Lexmark printers and servers from a mobile device running on the Android platform or iOS operating system. For more information, see the *Lexmark Print User's Guide* for your mobile device.
- **Lexmark Cloud Print Management for Chrome**—A browser extension that lets users send print jobs to Cloud Print Management using the Chrome OS™ operating system.

## Accessing the Print Management web portal

Open a web browser, access the Lexmark Cloud Services dashboard, and then do either of the following:

- From the dashboard, click **Print Management**.

**Note:** If the card is not available in the dashboard, then add the card. For more information, see [“Managing the dashboard” on page 23](#).

- From your current web portal, click  on the upper-right corner of the page, and then click **Print Management**.



## Administrative tasks

The Administration tab is available to Cloud Print Management administrators. This feature lets you configure the print job delegation, e-mail submission, quotas, print job retention, and print job history.

### Configuring organizational settings

- 1 From the Print Management web portal, click **Administration > Organizational Settings**.
- 2 From the General section, do any of the following:
  - **Enable Print Clients page**—Lets users navigate to the Print Clients page. For more information, see [“Downloading the Lexmark Print Management Client” on page 366](#).
  - **Allow access to legacy LPMC packages in Print Clients page**—Lets users access legacy LPMC packages on the Print Clients page.
  - **Enable automatic updates for installed print clients**—Lets users configure the Lexmark Print Management Client for automatic and seamless updates to the latest version when available. For more information, see [“Enabling automatic updates for Lexmark Print Management Client” on page 370](#).
  - **Enable print job delegation**—Lets you delegate print jobs to other users, allowing them to release the jobs for you. For more information, see [“Managing delegates” on page 365](#).
    - **Enable delegate e-mail notification**—Sends an email notification to a delegate when the delegate is added or removed. If an expiry date is set for the particular delegate, then the email contains the information related to the expiry date and time as well.
  - **Enable e-mail submission**—Lets you email documents to Lexmark Cloud for release. For more information, see [“Sending print jobs using e-mail” on page 372](#). The email address appears next to the Enable e-mail submission option.

#### Notes:

- The email address is linked to the environment that you are logged in to.
  - The email address also appears as a banner on the Print Queue page.
  - In the “E-mail documents to the following custom address” field, type an organization-specific username.
  - The email address is *<organization-specific username>@print.lexmark.com*.
  - When email submission is enabled for the first time, the email address can take up to 24 hours to be available.
  - A notification appears when the email address becomes accessible for users to submit print jobs.
- **Enable e-mail body submission**—Lets you submit the email body to Lexmark Cloud for release. To enable email body submission, you must enable email submission.
- Note:** If Enable e-mail body submission is not selected, only the email attachment is printed.
- **Allow guests to use e-mail submission**—Lets unregistered guest users email their documents to Cloud Print Management. To allow guest print submission, you must enable email submission. For more information, see [“Configuring the Guest Print feature” on page 377](#).
- **Limit the number of pages allowed per job**—Lets you set the maximum number of pages allowed per job for unregistered guest users.

**Note:** Each attachment in the email is treated as an individual job. The body of the email is also treated as an individual job.



- **Assign guests to cost center or department**—This feature lets you assign guests to a specific cost center or department for applying quotas and reporting. From the Assign guests to cost center or department menu, select any of the following:
  - **Do not assign**—Use this option if you are not assigning guest to any cost center or department.
  - **Cost center**—In the Cost center name field, type the name of the cost center.
  - **Department**—In the Department name field, type the name of the department.
- **Enable changing the number of copies before release**—Lets you change the number of copies before releasing a print job. For more information, see [“Releasing print jobs using the eSF application on the printer” on page 376](#).

This feature requires the following versions of the Print Release eSF application:

  - **For e-Task v5 or later:** 5.10.x or later
  - **For e-Task v4 or earlier:** 2.6.x or later
- **Enable print and keep**—Lets you retain a print job in the print queue after releasing it.

This feature requires the following versions of the Print Release eSF application:

  - **For e-Task v5 or later:** 5.10.x or later
  - **For e-Task v4 or earlier:** 2.6.x or later
- **Enable automatic print release**—Lets you release print jobs automatically after logging in to a printer. For more information, see [“Printing jobs using automatic print release” on page 377](#).
- **Keep print job file names for reporting**—Lets you store the file name of a print job for organizational reporting.
- **List and auto-release oldest print jobs first**—Lets you show and release the print jobs in order from oldest to newest.

Update the eSF applications to the following version to use this feature:

- For eSF version 5 or later:
  - Cloud Authentication version 5.6.30
  - Print Release version 5.10.19
  - Device Usage version 2.4.19
- For eSF version 4 or earlier:
  - Cloud Authentication version 2.6.23
  - Print Release version 2.6.24
  - Device Usage version 2.4.19
- **Enable print quotas**—Lets you set printing quotas. You can define the default quota for the organization, or set a custom quota.

Select one of the following:

- **Cost center or personal**—Lets you define quotas, and then assign them to cost centers or individual users.
- **Department or personal**—Lets you define quotas, and then assign them to departments or individual users.
- **Personal only**—Lets you define quotas, and then assign them to individual users.

#### Notes:

- For more information on defining the quotas, see [“Defining quotas” on page 357](#).
- For more information on assigning the quotas, see [“Assigning quotas” on page 358](#).



- **Enable print policies**—Lets you create and assign print policies to the users and groups in your organization.

Select one of the following:

- **Cost center or personal**—Lets you create a policy, and then assign it to cost centers or individual users.
- **Department or personal**—Lets you create a policy, and then assign it to departments or individual users.
- **Personal only**—Lets you create a policy, and then assign it to individual users.

**Note:** For more information on creating and assigning print policies, see [“Creating and assigning print policies” on page 360](#).

- **Enable direct print**—Lets you enable the Direct Print feature for departments, cost centers, and users. This feature allows you to track jobs that are sent to network attached printers, enrolled in Cloud Fleet Management.

Select one of the following:

- **Cost center or personal**—Lets you create an assignment, and then assign it to cost centers or individual users.
- **Department or personal**—Lets you create an assignment, and then assign it to departments or individual users.

**Note:** For more information on creating a direct print package, see [“Using Direct Print” on page 381](#).

- 3 From the Print Job Retention section, specify the length of time before released and unreleased jobs are deleted.

**Note:** You can configure the duration for Print Job Retention by specifying the number of days or hours.

- 4 From the Print Job History section, specify the period of the print job history.

**Notes:**

- You can configure the duration for Print Job History by specifying the number of days or hours.
- You can view the print job history information from the Print Job History tab. For more information, see [“Viewing the print job history” on page 366](#).
- This setting determines the included dates when generating the history of submitted print jobs. The specified period has no association with the Analytics web portal.

- 5 From the Universal Print Integration section, select the **Enable Universal Print** feature, and do the following:

- **Enable Universal Print**—This feature registers the Cloud Print Management as a Microsoft Universal Print (MUP) virtual printer in the Azure Active Directory (AD).
- **Printer name**—In the Printer name field, type the name of the Cloud Print Management virtual printer.
- **Printer share name**—In the Printer share name field, type the printer share name.

**Note:** The printer name and printer share name can be the same, but the printer share name must be unique.

Before enabling Universal Print Integration with Cloud Print Management, make sure that the following prerequisites are fulfilled:

- The operating system of the client workstation must have Windows 10 version 1903 or later.
- For macOS, the client workstation must have version 13.3 or later.



- The organization is federated, with users registered on Azure Active Directory.
- The client machine is configured and connected to the Azure Active Directory tenant.

You must set up MUP beyond the actual federation setup with Lexmark Cloud Services and make sure that the Azure tenant has a valid MUP subscription.

- The user setting up the virtual printer from the Cloud Print Management portal must have the Printer Administrator role in Azure.
- Setting up Cloud Print Management and MUP integration involves additional activities beyond the virtual printer setup. You must fetch the Azure tenant details so that they can be mapped to a Lexmark Cloud Services organization ID. For more information on the permission required for the user, go to <https://learn.microsoft.com/>.
- The Lexmark Universal Print application must have the following administrator permissions granted:
  - **User.Read, Organization.Read.All**
  - **PrintJob.ReadBasic / PrintJob.Read / PrintJob.ReadBasic.All**

## 6 Click **Save Changes**.

### Notes:

- After Universal Print is enabled, and if Azure administrator rights are available, a shared printer is created in the MUP tenant of Azure Active Directory. With Azure administrator rights available, save the changes and select an administrative account.
- The printer name and printer share name are automatically created in the MUP tenant of Azure Active Directory. The printer registration process takes a few minutes to complete.
- In Analytics, the submission type is reported as Microsoft Universal Print.

## 7 Select an administrative account to register the virtual printer MUP tenant of Azure Active Directory.

**Note:** After making the changes in the Organizational Settings page of Lexmark Cloud Services, the Azure administrator must share the new virtual printer available with users. For more information, see [“Sharing the registered printer to allow access to users” on page 357](#).

## Sharing the registered printer to allow access to users

- 1 From the Universal Print Azure Active Directory portal, select the registered printer.
- 2 Click **Access control**.
- 3 Enable **Allow access to everyone in my organization**.
- 4 Click **Share Printer**.

## Defining quotas

You can create quota definitions, and then assign them to specific departments, cost centers, or users.

This feature is available only when quota assignment is enabled in the organizational policies. For more information, see [“Configuring organizational settings” on page 354](#).

- 1 From the Print Management web portal, click **Administration > Quota Definitions**.
- 2 Do any of the following:



### Set a fixed quota

- a Click **Create**, and then type a unique quota definition name.
- b In the Specify quota limits menu, select **Same limits for each month**.
- c Specify the total quota for each month.
  - **Allow unlimited printing**
  - **Set custom quota**—Specify a printing limit.
  - **Disable all printing**

#### Notes:

- You can also allow, disallow, or set a color printing limit.
- The color printing limit is part of the total quota limit. If this limit is reached, then users can no longer print in color but can still use the remaining total quota for black and white printing.

- d Click **Create Quota Definition**.

### Set a custom quota for each month

- a Click **Create**, and then type a unique quota name.
- b In the Specify quota limits menu, select **Custom limits for each month**.
- c Select one or more months.
- d Click **Set Quota Limits**, and then specify the quota.
  - **Allow unlimited printing**
  - **Set custom quota**—Specify a printing limit.
  - **Disable all printing**

#### Notes:


- You can also allow, disallow, or set a color printing limit.
- The color printing limit is part of the total quota limit. If this limit is reached, then users can no longer print in color but can still use the remaining total quota for black and white printing.

- e Click **Set Quota Limits**.

- f Click **Create Quota Definition**.

### Setting the default quota for the organization

The default quota applies to all users in the organization, unless a custom quota is assigned to the department, cost center, or individual user. The custom quota overrides the default quota.

- a Click  beside Default Quota.
- b Set a fixed quota or a custom quota for each month.

## Assigning quotas

This feature is available only when quota assignment is enabled in the organizational policies. For more information, see [“Configuring organizational settings” on page 354](#).

- 1 From the Print Management web portal, click **Administration > Quota Assignments**.
- 2 Do any of the following:



**Note:** The available tabs may vary depending on the organizational settings. If the setting is only allowing quota assignments by **Personal only**, then no other tabs are available. For more information, see [“Configuring organizational settings” on page 354](#).

### Assign a cost center quota

**Note:** The Cost Center tab is available only when the policy is set to assign quotas by **Cost center or personal**.

- a** From the Cost Center tab, click **Assign Quota**.
- b** Type the cost center name.

**Note:** The cost center name must match a cost center found in Account Management for the organization.

- c** Select a quota definition.
- d** Click **Assign Quota**.

### Assign a department quota

**Note:** The Department tab is available only when the policy is set to assign quotas by **Department or personal**.

- a** From the Department tab, click **Assign Quota**.
- b** Type the department name.

**Note:** The cost center name must match a cost center found in Account Management for the organization.

- c** Select a quota definition.
- d** Click **Assign Quota**.

### Assign a user quota

- a** From the Personal tab, click **Assign Quota**.
- b** Type the user e-mail address.
- c** Select a quota definition.
- d** Click **Assign Quota**.

## Viewing user quota status

The User Quota Status feature shows you where the users are within their quota in a given month. Administrators can monitor and identify users who may be exceeding their quota.

**Note:** This feature is available only for Print Release Management administrators.


The user quota status table contains the following information:

- **User**—The e-mail address of the user.
- **Status**—The status of a user’s quota.
  - **OK (green circle check mark)**—The user’s quota is between 11% and 100% for both their total quota and color quota.
  - **Warning (yellow warning triangle)**—The user’s quota is 10% or below for either their total quota or color quota.



- **Exceeded (red circle exclamation)**—The user's quota is 0 or below for either their total quota or color quota.
- **Total Quota Remaining**—The total print quota remaining for the user for both mono and color print jobs.
- **Color Limit Remaining**—The amount of color printing left for the user.
- **Quota Definition**—The quota definition that is assigned to a user.
- **Type**—The category assigned to a user's quota. It can be Personal, Cost center, or Default.

User	Status	Total Quota Remaining	Color Quota Remaining	Quota Definition	Type
manas.chakraborty@lexmark.fi	Exceeded	145	56	Default Quota	Default
ipmadmin@test.onelkx.co	OK	160	81	quota_test_0809	Personal

- 1 From the Print Management web portal, click **Administration > User Quota Status**.
- 2 Do any of the following:
  - Filter the user quota status table by Quota Status, Quota Definition, and Assignment Type.
  - Export the user quota status table into a CSV file by clicking  on the upper-right corner of the table.

## Creating and assigning print policies

Policies are rules that you can assign and enforce to users and groups on Cloud Print Management. These rules are enforced for the specified users or groups on Cloud Print Management.

**Note:** Make sure to enable the print policy settings. For more information, see [“Configuring organizational settings” on page 354](#).

- 1 From the Print Management portal, click **Administration > Print Policies**.

**Note:** You can modify the Default Print Policy by clicking . For more information, see [“Print Policy settings” on page 360](#).

- 2 Do any of the following:

- **Create a print policy**
  - a Click **Create**.

**Note:** If there is no existing print policy, then click **Create Print Policy**.

- b In the Policy name field, type the name of the policy.
- c Configure the settings:

### Print Policy settings

- **Force color jobs to mono**—Print mono jobs only.
  - Select **Only jobs with at least a specific number of pages** to set the minimum number pages to apply this policy.



- **Force jobs to use two-sided printing**—Print on both sides.
  - **Two-sided printing**—Select either **Long edge binding** or **Short edge binding**.
  - **All print jobs**—Set the minimum number of pages to apply this policy. Select **Only mono jobs with at least a specific number of pages** and **Only color jobs with at least a specific number of pages**.
  - **Mono print jobs**—Select **Only mono jobs with at least a specific number of pages** to set the minimum number of pages to apply this policy.
  - **Color print jobs**—Select **Only color jobs with at least a specific number of pages** to set the minimum number of pages to apply this policy.
- **Limit printing to specific days and times**—Print only during specific days and times.
  - **Select days**—Select a day or days on which to allow printing.
    - **All days**—Allow printing on all days but only within a specific time. Set the values for Start time and End time.
    - **Monday-Friday**—Allow printing only on Mondays through Fridays within a specific time. Set the values for Start time and End time.
    - **Custom**—Allow printing on specific days. Set the values for Start time and End time for each of the specific days that you select.

**Notes:**

- If the value for the End time field is beyond 11:59 PM, the schedule will end the next day.
- The Start time and End time refers to the user's local time on the printer.

**d** Click **Create Policy**.

- **Duplicate a print policy**
  - a** Select an existing policy,
  - b** Click **Duplicate**.
  - c** Type a unique name for the policy.
  - d** Click **Create Policy**.
- **Delete a print policy**
  - a** Select an existing policy.
  - b** Click **Delete**.
  - c** Click **Delete Print Policy**.

**Notes:**

- A print policy on page count does not apply to number of copies. For example, a policy may limit a user to three pages for a single print job. But the user can still print two copies of a two-page print job.
- Cloud Print Management renders the job before the printer does, so cloud services cannot interpolate if the job is color or one-sided. Hence, Lexmark Cloud Services renders any job uploaded to the portal as color and one-sided and applies policies related to color and one-sided printing.

## Assigning a print policy

- 1** From the Print Management portal, click **Administration > Print Policy Assignments**.
- 2** Select **Cost Center**, **Personal**, or **Department**.



**Note:** The available tabs vary depending on the organizational settings. For more information, see [“Configuring organizational settings” on page 354](#).

### Assigning to a cost center or department

- a Select an existing cost center or department.

**Note:** You can also select a cost center or department by typing its name in the Cost center name field or Department name field in the Assign Policy window.

- b Click **Assign Policy**.
- c From the Select print policy menu, select the policy.
- d Click **Assign Print Policy**.

### Assigning to a user

- a Select an existing user.

**Note:** You can also select a user by typing the email address of the user in the E-mail field in the Assign Print Policy to User window.

- b Click **Assign Policy**.
- c From the Select print policy menu, select the policy.
- d Click **Assign Print Policy**.

### Notes:


- To remove a print policy, select a print policy, and then click **Remove Policy** > **Remove Print Policy**.
- To view or filter the cost center or department to which a print policy is assigned, from the Print Policy Assigned menu, select the policy.
- User-based policies override cost center- or department-based policies.
- To view the details of a print policy, click the item in the Select print policy.

## Obtaining the client ID and client secret

The Identity Service application containing the client ID and client secret of an organization is found in the Account Management service in the Cloud Services portal. A user account with the Organization Administrator role is required.

**Note:** The client ID and client secret are sensitive information. Do not share this information without appropriate consent.

- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Click the **Account Management** card.

**Note:** If the card is not visible on the dashboard, then click  on the upper-right corner of the page, and then click **Account Management**.

- 3 Select the organization, and then click **Next**.
- 4 Click the **Applications** tab.
- 5 In the Search applications field, type either **Device Authentication** or **Card Auth App**, and then press **Enter**.



- 6 From the Application Name list, click the application name.
- 7 Obtain the client ID and client secret from the OAuth Settings section.

**Note:** From the application page, in the Permission section, make sure that badges-auth is listed under Scopes.

## Managing print queues

The print queue shows the print jobs submitted to Cloud Print Management using the following submission methods:

- **Cloud Print Management**—The print jobs are submitted to the Lexmark Cloud print queue.  
Users can send print jobs using the following sources:
  - **Web**—The file is uploaded directly to the Print Management web portal.
  - **LPMC**—The print job is sent from the user's workstation using the Lexmark Print Management Client configured for Cloud Print Management.
  - **Chrome Print Extension**—The print job is submitted from the Google Chrome web browser.
  - **Mobile**—The print job is submitted from the Lexmark Print application.
  - **E-mail**—The print job is e-mailed to *<organization-specific user name>@print.lexmark.com*.
- **Hybrid Print Management**—The print jobs are held locally on the user's workstation rather than being submitted to the Lexmark Cloud print queue. The print queue shows the print jobs being held for release on the workstation. The workstation uses the Lexmark Print Management Client that is installed in Hybrid mode to communicate with Cloud Print Management.

**Note:** From the print queue, you can also change the layout, paper, and finishing options. However, depending on the submission method, print driver settings, and document processor settings, some options may not be available.

- 1 From the Print Management web portal, click **Print Queue**.
- 2 Click the Print Queue header.
- 3 Search for or select a user.
- 4 Do any of the following:

### Upload files

- a Click **Upload File**.
- b Drag one or more files, or click **Choose Files**, and then browse to them.
- c Click **Done**.

### Delete print jobs

- a Select one or more jobs.
- b Click **Delete > Delete Print Jobs**.

### Set print settings for a specific print job

- a Click a print job.
- b If necessary, from the General section, type a description for the print job.



- c** Do any of the following:

**Note:** Depending on the submission method, print driver settings, and document processor settings, some layout, paper, and finishing options may not be available.

#### Adjust the layout

- **Copies**—The number of copies to be printed.
- **Collate**—Keep the pages of a print job stacked in sequence, particularly when printing multiple copies of the job.
- **Two-sided printing**—When you print on both sides of the paper, the paper flips either on the short-edge or on the long-edge side. To use the printer default setting, select **Use printer setting**.
- **Pages per side**—Multiple pages of the document are printed on one side of the paper.
- **Orientation - Pages per side**—The orientation of the pages when printing multiple pages per side (N-up).

#### Adjust the paper and finishing options

- **Paper size**—The size of the paper.
- **Paper source**—The tray that is the source of paper.
- **Paper type**—The type of paper.
- **Output bin**—The collection point for paper that has exited from the printer.
- **Staple**—The stapling position in the paper.
- **Hole punch**—The number of holes to be punched.
- **Fold**—The way the paper is folded.

#### Change the quality

Select a color mode.

- d** Click **Save Changes**.

### Set default print settings for all incoming print jobs

- a** Click **Set Default Print Settings**.

- b** Do any of the following:

**Note:** Depending on the submission method, print driver settings, and document processor settings, some layout, paper, and finishing options may not be available.

#### Adjust the layout

- **Copies**—The number of copies to be printed.
- **Collate**—Keep the pages of a print job stacked in sequence, particularly when printing multiple copies of the job.
- **Two-sided printing**—When you print on both sides of the paper, the paper flips either on the short-edge or on the long-edge side. To use the printer default setting, select **Use printer setting**.
- **Pages per side**—Multiple pages of the document are printed on one side of the paper.
- **Orientation - Pages per side**—The orientation of the pages when printing multiple pages per side (N-up).



**Adjust the paper and finishing options**

- **Paper size**—The size of the paper.
- **Paper source**—The tray that is the source of paper.
- **Paper type**—The type of paper.
- **Output bin**—The collection point for paper that has exited from the printer.
- **Staple**—The stapling position in the paper.
- **Hole punch**—The number of holes to be punched.
- **Fold**—The way the paper is folded.

**Change the quality**

Select a color mode.

- c** Click **Save Changes**.

## Uploading files to the Print Management web portal

- 1** From the Print Management web portal, click **Print Queue**.
- 2** Click **Upload File**, and then drag one or more files or browse to them.
- 3** Click **Done**.

## Managing delegates

View and manage user delegates.

A delegate is a user who is allowed to print jobs by another user. For example, an administrative assistant can print jobs submitted by an executive.

This feature is available only when print job delegation is enabled in the organizational policies. For more information, see [“Configuring organizational settings” on page 354](#).

**Notes:**

- Delegates can view all print jobs submitted by another user, but can print only Cloud Print Management print jobs.
- Delegates cannot print Hybrid Print Management print jobs.
- Even if delegates are set up in Lexmark Cloud Services, devices that support Cloud Print Release cannot release delegated jobs. Delegated jobs can only be released on devices with the Cloud Print Management applications installed.

- 1** From the Print Management web portal, click **Delegates**.
- 2** Click the **Delegates** header.
- 3** Search for or select a user.
- 4** Do either of the following:



## Add delegates

- a Click **Add**.
- b Select a user.
- c From the Enable delegate expiration section, select either of the following:
  - **Never expires**—Do not set an expiry date for delegates.
  - **Expires after**—Set the number of days after which the delegates expire.
- d Click **Add Delegate**.

## Remove delegates

- a Select one or more delegates.
- b Click **Remove** > **Remove Delegate**.

**Note:** To notify delegates about their addition, removal, and expiration, select **Enable delegate e-mail notification** on the Organizational Settings page. For more information on enabling delegate e-mail notification, see [“Configuring organizational settings” on page 354](#).

# Viewing the print job history

From the Print Management web portal, click **Print Job History**.

The print job history contains the following information:

- **Impressions**—A side of a sheet of paper that contains toner.
- **Released From**—Shows the printer IP address where the print job is released.
- **Job Name**
- **Job Source**
- **Color Mode**—Shows whether the print job is monochrome or color.
- **Two-Sided Printing**—Shows whether the print job is printed on both sides of the paper.
- **Released**—Shows when the print job is released.
- **Released By**—Shows the delegate who released your print job. This column appears only when a delegate has released one of your print jobs.

# Downloading the Lexmark Print Management Client

The Lexmark Print Management Client is a software package deployed to computers to provide secure release of print jobs.

You can download the Lexmark Print Management Client package configured for either of the following environments:

- **Cloud Print Management**—Print jobs are stored on the Lexmark Cloud print queue until they are released from a printer installed with the Print Release application.
- **Hybrid Print Management**—Print jobs are stored on the user’s workstation until they are released from a printer installed with the Print Release application.
- **Direct Print**—Print jobs are never held for release, but are sent and printed immediately on a configured printer.

**Note:** The Direct Print feature is supported in the following operating systems and LPMC versions:



- Microsoft Windows with LPMC version 2.3.1145 or later
- macOS with LPMC version 3.3.0 or later
- Ubuntu with LPMC version 3.3.0 or later

- 1 From the Print Management web portal, click **Print Clients**.
- 2 From the Select client menu, select an operating system.
- 3 For Chrome OS, iOS, and Android operating systems, select the link that appears, and then click **Leave Site**.  
For Windows, macOS, and Ubuntu operating systems, do any of the following:

- **For the Cloud Print Management package type:**
  - a From the Select package type menu, select **Cloud Print Management**.
  - b Click **Download Client**.
- **For the Hybrid Print Management package type:**
  - a From the Select package type menu, select **Hybrid Print Management**.
  - b Click **Download Client**.
- **For the Direct Print package type:**
  - a From the Select package type menu, select **Direct Print**.
  - b Depending on the organizational settings, select one of the following:
    - **Cost Centers**
    - **Departments**
    - **Personal**
  - c Select the assignments that you want to download.
  - d Click **Download Client**.
- **For the custom package type:**
  - a From the Select package type menu, select **Custom Package**.
  - b Click **Create Package**.
  - c From the Global Configuration Settings section, specify whether to show the print submission status notification.
  - d If you have a Lexmark Cloud Print Management environment, then do the following:
    - 1 From the Cloud Print Management section, select **Enable Cloud Print Management**.
    - 2 From the Print queue name section, select **Use default name [Cloud Print Management]** or **Set custom name**.

**Notes:**

- For custom print queue names, type the name of the print queue in the Set custom name field. The print queue name must be at least three characters and must not include special characters.
  - By using the Set custom name option, you can name the print queue for users.
  - The Set custom name option requires the use of the LPMC versions of Windows 2.3.942.0 or later or macOS version 1.1.1396 or later.
- e If you have a Lexmark Hybrid Print Management environment, then do the following:
    - 1 From the Hybrid Print Management section, select **Enable Hybrid Print Management**.
    - 2 From the Print queue name section, select **Use default name [Hybrid Print Management]** or **Set custom name**.



**Notes:**

- For custom print queue names, type the name of the print queue in the Set custom name field. The print queue name must be at least three characters and must not include special characters.
  - By using the Set custom name option, you can name the print queue for users.
  - The Set custom name option requires the use of the LPMC versions of Windows 2.3.942.0 or later, or macOS version 1.1.1396 or later.
- 3** Select the option whether to let users change the print settings when releasing jobs at the printer.
- f** If you have a Lexmark Direct Print environment, then do the following:
- 1** From the Direct Print section, select **Enable Direct Print**.
  - 2** Depending on the organizational settings, select one of the following:
    - **Cost Centers**
    - **Departments**
    - **Personal**
  - 3** Select the assignments that you want to download.
- g** From the Print Driver Type section, select a print driver to include in the package.
- h** From the Set Default Printer section, select which environment to use by default.
- i** Click **Create**.
- j** Download the package.

## Installing the Lexmark Print Management Client

### For Microsoft Windows operating system

- 1** From your computer, run the package.
- 2** Follow the instructions on the screen.

**Notes:**

- The executable files are saved in the Program Files folder.
- For custom packages, the configuration file is included in the downloaded compressed file. Make sure that the installer and the configuration file are in the same folder.
- The configuration and the log files are saved in the **%allusersprofile%\LPMC** folder after installation.
- To be able to use the LPMC version 3.4.x, make sure that you have installed Microsoft .NET Framework version 6.2 or later.

After the installation, you can either access Lexmark Cloud Print Management, or Lexmark Hybrid Print Management, or Lexmark Direct printer.

### For macOS operating system software

- 1** From your computer, run the package.
- 2** Follow the instructions on the screen.

**Notes:**

- The executable files, the configuration file, and the SSL certificates are saved in the **/Library/Lexmark/LPMC** folder.



- The log file is saved in **/var/LPMC** as **lpmc.log**.
- For the custom package, the configuration file is included in the downloaded compressed file. Make sure that the installer and the configuration file are in the same folder.

## For Ubuntu operating system

- 1 Download the package.
- 2 Unzip and run the **.sh** file.

### Notes:

- The executable files are saved in the **/usr/share/Lexmark/PrintManagementClient** folder.
- The configuration file is saved in the **/etc/Lexmark/PrintManagementClient** folder.
- The SSL certificates are saved in **/var/Lexmark/PrintManagementClient**.
- The log file is saved in **/var/Lexmark/PrintManagementClient/lpmc-universal-service.log**.

**Note:** It is not recommended to conduct antivirus scans on the **Lexmark/PrintManagementClient** folder. Antivirus scans may result in locking essential files, blocking access to configuration files, and preventing print job file creation.

## Applying the driver configuration

The LPMC installer supports the use of LDC files from the Printer Driver Configuration Utility. During installation, the system looks for specific file names for the LDC files.

### Notes:

- To apply a driver configuration when the LPMC is installed, save the LDC file in the same folder as the LPMC installer.
- For Ubuntu and macOS, the LPMC installer does not support the use of LDC files.
- For Ubuntu 20.04 or later, to make the LPMC **SysTray** icon visible, install **AppIndicator** and enable it in GNOME.

Use the following file names:

- **LPMSaaSPrintQueueConfiguration ldc** for the Cloud Print Management print queue
- **LPMServerlessPrintQueueConfiguration ldc** for the Hybrid Print Management print queue

The LDC configuration must use the following value for the print queue:

```
<PrinterObject value="Cloud Print Management - PCLXL"></PrinterObject>
```

You can also use the following generic values for the printer profile and printer model:

```
<PrinterProfile name="Lexmark Universal v2" version="1.0">
<PrinterModel value="Lexmark Universal v2"></PrinterModel>
```

### Notes:

- If the legacy version of LPMC is installed on your workstation, then you can upgrade to the latest version of LPMC (version 3.4.x).
- Unreleased hybrid jobs are not retained. It is highly recommended not to have any pending jobs before the upgrade.
- Enabling automatic updates is supported only in the latest version of LPMC.



User can select one of the following settings when upgrading to the latest version of LPMC:

- **Keep User Setting**—To maintain your current settings, do the following:
  - 1 Run the LPMC package installer with your existing **configuration.xml** or **Directprintconfiguration.xml** file.
  - 2 Place a copy of the **configuration.xml** or **Directprintconfiguration.xml** file in the directory of the new LPMC package installer.
- **New User Setting**—To modify the existing settings, do the following:
  - 1 Download and edit the **configuration.xml** or **Directprintconfiguration.xml** file.
  - 2 Place the edited files in the same directory as the existing LPMC package installer.
- **Default Setting**—If no **configuration.xml** file is attached to the LPMC installer package, then the default configuration settings provided by the downloaded LPMC installer package are applied.

## Enabling automatic updates for Lexmark Print Management Client

- 1 From the Print Management web portal, click **Administration > Organizational Settings**.
- 2 From the General section, select **Enable automatic updates for installed print clients**.
- 3 Select either of the following:
  - **As soon as possible**—Does not provide the user any option to postpone an update. The system automatically downloads and installs the latest version of LPMC available in the portal.
  - **Within specific time period**:
    - Allows users to snooze updates up to a maximum of 7 days as configured by the administrator.
    - If the maximum snooze duration is exceeded, then the system initiates updates automatically.
    - If a user does not click **Update Later** within 5 minutes of the snooze dialog being displayed, then the system initiates updates automatically.

## Managing the Lexmark Print Management Client

### Checking for updates for the Lexmark Print Management Client

The following steps apply to the following operating systems and LPMC versions:

- Microsoft Windows with LPMC version 3.3.0 or later
- macOS with LPMC version 3.3.0 or later
- Ubuntu with LPMC version 3.3.0 or later

- 1 From your computer, in the system tray or the menu bar, click the Lexmark Print Management Client icon.
- 2 Click **Check for Updates**.

Always update your operating system to maintain optimal security and performance of your LPMC. Regular updates protect your system from the latest vulnerabilities and provide secured connections through encrypted data transfers and updated SSL certificates.



## Identifying the version of Lexmark Print Management Client

The following steps apply to the following operating systems and LPMC versions:

- Microsoft Windows with LPMC version 2.3.1026.0 or later
- macOS with LPMC version 1.1.1468 or later
- Ubuntu with LPMC version 3.1.0 or later

- 1 From your computer, in the system tray or the menu bar, click the Lexmark Print Management Client icon.
- 2 Click **About Print Management Client**.

## Identifying the version of Lexmark Print Management Client from the Client Status page

The following steps apply to the following operating systems and LPMC versions:

- Microsoft Windows with LPMC version 2.3.1026.0 or later
- macOS with LPMC version 1.1.1468 or later
- Ubuntu with LPMC version 3.1.0 or later

- 1 From the Print Management web portal, click **Print Clients > Client Status**.
- 2 Locate the LPMC version in the Client Version column.

## Logging out from the Lexmark Print Management Client

Logging out from Lexmark Print Management Client deletes all Hybrid print jobs stored on your computer, making them no longer available for release. However, the print jobs that are already sent to the Lexmark Cloud print queue remain available.

**Note:** The following steps apply to Microsoft Windows, macOS, and Ubuntu operating systems.

- 1 From your computer, in the system tray or menu bar, right-click the Lexmark Print Management Client icon.
- 2 Click **Log out from Print Management**.

**Note:** After you log out, your authentication credentials are deleted. When you print again, you are prompted for your user credentials.

## Sending print jobs to Lexmark Cloud Services

### Sending print jobs from your computer

- 1 Open a file or image.
- 2 Select the print option, and then select the Lexmark Cloud Services print release queue.
- 3 Click **Print**.
- 4 If prompted, type your e-mail address and password.

**Note:** If you cannot authenticate within three minutes, then the session expires and the submitted job gets deleted.



## Sending print jobs using e-mail

This feature is available only when e-mail submission is enabled in the organizational policies. For more information, see [“Configuring organizational settings” on page 354](#).

From your e-mail client, send the e-mail or attachment to the following:

- For users of the North American data center, <organization-specific user name>@print.lexmark.com.
- For users of the European data center, <organization-specific user name>@print.lexmark.com.

## Sending print jobs from web portals

- 1 From the Print Management web portal, click **Print Queue**.
- 2 Click **Upload File**, and then drag one or more files or browse to them.
- 3 Click **Done**.

## Downloading the Lexmark Cloud Print Management for Chrome extension

Add the Lexmark Cloud Print Management for Chrome extension so that you can send print jobs to Cloud Print Management using the Chrome OS operating system.

- 1 From the Print Management web portal, click **Print Clients**.
- 2 From the Select client menu, select **Chrome**.
- 3 Click the **Available in the Chrome Web Store** link that appears.
- 4 Click **Leave Site**.
- 5 Using the Chrome OS browser, from the Chrome Web Store, add the Lexmark Cloud Print Management for Chrome extension.

## Sending print jobs from the Chrome OS operating system

**Note:** For Chromebook™ computers and other computers running on the Chrome OS operating system, add the **Lexmark Cloud Print Management for Chrome** extension to your web browser. For more information, see [“Downloading the Lexmark Cloud Print Management for Chrome extension” on page 372](#).


- 1 From the Google Chrome browser, open a file, image, or web page.
- 2 Select a print option, and then select **Lexmark Cloud Print Management for Chrome**.
- 3 If necessary, change the print settings. To change other settings, click **More settings > Advanced settings**, and configure the following:
  - **Two-sided printing**—When you print on both sides of the paper, the paper flips either on the short-edge or on the long-edge side. To use the printer default setting, select **Use printer setting**.
  - **Pages per side**—Multiple pages of the document are printed on one side of the paper.
  - **Pages per side orientation**—The orientation of the pages when printing multiple pages per side.
  - **Staple Location**—The stapling position on the page.
  - **Fold**—The way the paper is folded.
  - **Hole punch**—The number of holes to be punched.
  - **Paper source/tray**—The paper source or the tray to be used for the print job.



**Note:** Depending on the printer model, these settings may vary.

**4** Click **Apply**.

**5** Click **Print**.

**Note:** In the LPMC Chrome extension, the document file cannot be previewed, and is unable to print using . This limitation is in Microsoft 365.

## Mobile printing

### Adding a Lexmark Cloud Print Management server using a mobile device for version 3.x

This feature lets you send print jobs to the Lexmark Cloud Print Management using the Lexmark Print application version 3.x. For more information on sending print jobs using the Lexmark Print application, see [“Sending print jobs using a mobile device” on page 373](#).

- 1** From your mobile device, launch the Lexmark Print application.
- 2** From the application home screen, tap **Add a Device**.
- 3** Tap **Lexmark Cloud Print Management**.
- 4** From the Data Center menu, select any one of the following:
  - **Auto Detect**—Set your data center automatically as determined by your location.
  - **Americas**—Use the North American data center as determined by your Lexmark Cloud Services agreement.
  - **Europe**—Use the European data center as determined by your Lexmark Cloud Services agreement.

### Sending print jobs using a mobile device

For more information on the Lexmark Print application, see the *Lexmark Print User's Guide* for your mobile device.

#### For devices using the Android platform

- 1** Launch the Lexmark Print application.
- 2** From the Print From section of the application home screen, tap a source, and then follow the instructions on the screen.

**Note:** If prompted, allow the application to access the camera and the storage.

- 3** Select the Lexmark Cloud Services queue.

**Note:** If prompted, log in to the server.

- 4** If necessary, change the print settings.

- 5** Tap .




### For devices using the Apple iOS operating system

- 1 Launch the Lexmark Print application.
- 2 From the PRINT FROM section of the application home screen, tap a source, and then follow the instructions on the screen.  
**Note:** If prompted, allow the application to access the camera and the photos.
- 3 Select the Lexmark Cloud Services queue.  
**Note:** If prompted, log in to the server.
- 4 If necessary, change the print settings.
- 5 Tap **Print**.


### Sharing documents to the print queue server using your mobile device

For more information on the Lexmark Print application, see the *Lexmark Print User's Guide* for your mobile device.

### For devices using the Android platform

- 1 From your mobile device, select a document from the file manager.  
**Notes:**
  - Make sure that the mobile device supports the document file type.
  - Make sure that the printer supports the file type. For the list of supported file types, see the printer *User's Guide*.
- 2 Share the document to Lexmark Print.
- 3 Select the Lexmark Cloud Services queue, and if necessary, change the print settings.
- 4 Tap .

### For devices using the Apple iOS operating system

- 1 From your mobile device, select a document from the file manager.  
**Notes:**
  - Make sure that the mobile device supports the document file type.
  - Make sure that the printer supports the file type. For the list of supported file types, see the printer *User's Guide*.
- 2 Tap  > **Lexmark Print**.
- 3 Select the Lexmark Cloud Services queue, and if necessary, change the print settings.
- 4 Tap **Print**.






## Printing documents from your mobile device

For more information on the Lexmark Print application, see the *Lexmark Print User's Guide* for your mobile device.

### For devices using the Android platform

- 1 Launch the Lexmark Print application.
- 2 From the Print Release section, select the server.  
**Note:** If you are prompted to log in to the server, then type your credentials, and then tap **LOGIN**.
- 3 Select the user with jobs to print.
- 4 Select one or more jobs.


**Note:** To select all jobs, tap .

- 5 Tap .
- 6 Select the Lexmark Cloud Services queue, and if necessary, change the print settings.
- 7 Tap .


#### Notes:

- You can add a printer to the list.
- To delete the selected jobs after printing, select **Delete this Document after Printing**.

### For devices using the Apple iOS operating system

- 1 Launch the Lexmark Print application.
- 2 From the Print Release section, select the server.  
**Note:** If you are prompted to log in to the server, then type your credentials, and then tap **OK**.
- 3 Select the user with jobs to print.
- 4 Select one or more jobs.
- 5 Tap .
- 6 Select the Lexmark Cloud Services queue, and if necessary, change the print settings.
- 7 Tap **Print**.

#### Notes:

- You can add a printer to the list.
- To select all jobs, tap .
- To delete the selected jobs after printing, select **Delete from queue after printing**.



## Choosing an application for releasing print jobs


- **Automatic Print Release**—Lets you release print jobs automatically after logging in to the printer. To use this feature, make sure that you enable Automatic Print Release from the Organizational Settings. For more information on enabling Automatic Print Release, see [“Configuring organizational settings” on page 354](#).
- **Cloud Print Release**—Lets you release print jobs from 2.8-inch touch-screen printers. For more information on configuring Cloud Print Release, see [“Configuring Cloud Print Release” on page 378](#).
- **Print Release eSF application**—Lets you release print jobs from 4.3-inch or bigger touch-screen printers.
- **Guest Print**—Lets guest users print documents without requiring the administrator to create an account in the organization. For more information on Guest Print, see [“Configuring the Guest Print feature” on page 377](#).


## Releasing print jobs using the eSF application on the printer

Use the Print Release eSF application to release print jobs from the printer. For more information, see the *Print Release Administrator's Guide*.

**Note:** Depending on your configuration, you may need to register at first use. Follow the instructions on the printer display.

- 1 From the printer home screen, touch the icon for the Print Release application.
- 2 Select one or more print jobs.

**Note:** To print the jobs that are delegated to you, touch . If necessary, select a user name, and then select the print jobs.

- 3 If necessary, change the print settings. Select a job, touch  beside the Print button, touch **Change Print Settings**, and then do any of the following:

**Note:** Depending on the submission method, print driver settings, and document processor settings, some layout, paper, and finishing options may not be available.

- Touch **Settings**, and then adjust one or more of the following:
  - **Number of copies**
  - **Color**
    - Note:** You cannot change black-and-white print jobs to color at the printer for some file formats.
  - **Sides**—Specify whether the print jobs are printed on one side only or on both sides of the paper.
- Touch **Finishing Options**, and then adjust either of the following:
  - **Staple**—Specify whether to staple the printed jobs.
  - **Hole punch**—Specify whether to punch holes on the printed jobs.

- 4 Touch **Print**.

**Note:** For 4.3-inch or bigger touch-screen printers, use Print Release eSF applications to release print jobs. For 2.8-inch touch-screen printers, use the Cloud Print Release application to release print jobs. For more information on Cloud Print Release, see [“Configuring Cloud Print Release” on page 378](#).



## Printing jobs using automatic print release

Automatic print release is an organizational setting that lets users release their print jobs automatically after logging in. This setting prevents users from interacting directly with the printer when releasing print jobs. If enabled, then all print jobs in the user's queue are released. After authenticating, a message appears that lets you cancel the automatic print release function. To release one or more print jobs selectively, see [“Releasing print jobs using the eSF application on the printer” on page 376](#).

### Notes:

- Make sure that automatic print release is enabled. For more information, see [“Configuring organizational settings” on page 354](#).
- Only the print jobs of the authenticated user are released.
- This setting applies only in Print Release.

**1** Log in to the printer.

**2** Do either of the following:

- Tap **Cancel** to stop the automatic print release.
- Wait for the printer to release all your pending print jobs.

## Configuring the Guest Print feature

Guest Print is a feature that lets guest users print documents without requiring the administrator to create an account in their organization.

The guest composes an e-mail from an e-mail client, attaches the documents to be printed, and sends it to a predefined e-mail address. An administrator or an organizational representative provides the e-mail address that the guest can send their documents. After sending the e-mail to the specified e-mail address, the guest receives a confirmation e-mail with a PIN. Using the PIN, the guest can proceed to the printer specified by the organizational representative, and print.

### Notes:

- The guest must have an e-mail client to be able to send the document.
- A unique identifier is automatically created in the identity provider for guest print. This unique identifier can be used to generate reports related to guest print activity.
- The supported file formats are CSV, DOC, DOCX, GIF, HTML, JPG, ODP, ODS, ODT, PDF, PPT, PPTX, RTF, TIFF, TXT, XLS, and XLSX. If a user attaches an unsupported file format, then the user receives an e-mail indicating the supported formats.
- Lexmark retains information related to the print job only but does not retain any e-mail-related information.
- Each e-mail attachment is treated as a separate print job.

### Enabling Guest Print

**1** From the Print Management web portal, click **Administration > Organizational Settings**.

**Note:** E-mail submission must be enabled before enabling guest print submission. For more information on enabling e-mail submission, see [“Configuring organizational settings” on page 354](#).

**2** From the General section, select **Allow guests to use e-mail submission**.



**Notes:**

- Select **Limit the number of pages allowed per job** to set the maximum number pages to be printed per job. Jobs greater than a specified number of pages are not processed.
- PIN authentication must be enabled for guest print submission to work. If PIN authentication is not enabled, then you are prompted to enable it. For more information on configuring PIN authentication, see [“Configuring printer login” on page 284](#).
- You can assign guests to a specific cost center or department for applying quotas and reporting. For more information, see [“Configuring organizational settings” on page 354](#).

**3 Click Save Changes.****Notes:**

- An organizational administrator can configure settings related to print job retention, PIN length, and PIN expiration. The organizational settings applies to the PIN received by the guest user.
- The validity of the guest print job depends on the value set in Print Job Retention or “PIN Expires after,” whichever is lesser. For instance, if Print Job Retention is set as 6 hours and “PIN Expires after” as 7 hours, then the jobs get deleted after 6 hours.

**Releasing guest print jobs**

After receiving the PIN through e-mail, the guest can proceed to the printer specified by the representative, and perform the following steps:

- 1** From the printer control panel, touch **PIN Login**.
- 2** Enter the PIN that you have received in your e-mail, and then touch **OK**.
- 3** Touch **Print Release**.
- 4** Select the print job, and then touch **Print**.

**Notes:**

- If you send multiple print jobs, then all those print jobs are listed.
- Each attachment is represented as an individual print job.
- To print the body of the e-mail, select **Enable e-mail body submission**. If this option is enabled, then the body of the e-mail is represented as an individual print job.
- The number of pages allowed per print job depends on the organizational settings. If any of the print jobs exceeds the specified number of pages, then the job is not processed at all. For more information, see [“Configuring organizational settings” on page 354](#).

## Configuring Cloud Print Release

You can configure a printer for Cloud Print Release by deploying the configuration or by importing the settings through the printer EWS. Users can also manually edit the settings to configure Cloud Print Release.

Cloud Print Release is available in 2.8-inch-screen printers only. For more information on printers that support Cloud Print Release, see [“Supported printer models” on page 30](#).

**Notes:**

- Cloud Print Release is available in printers with firmware version 075.287 or later. For more information, see [“Viewing the printer firmware version” on page 48](#).



- Users can use Cloud Print Release using a PIN or secure login code only. For more information on secure login code, see [“Obtaining secure login code” on page 285](#).
- Cloud Print Release releases all prints jobs in a print queue. Individual print job selection is not supported in Cloud Print Release.
- Cloud Print Release does not support hybrid print jobs or delegated jobs.

## Configuring Cloud Print Release using a settings bundle

Administrators can configure the server address, client ID, and client secret using a settings bundle.

- 1 From the Embedded Web Server, click **Export Configuration > All Settings**.

**Note:** The settings bundle is downloaded in ZIP format.

- 2 Extract the files from the ZIP folder.

- 3 Open the **bundle.xml** file with a text editor.

- 4 Modify the **<deviceSettings>** section of the settings bundle to:

```
<deviceSettings>

<setting name="cloud.services.address">api.<env>.iss.lexmark.com</setting>
<setting name="cloud.services.client.id">CLIENT_ID_FROM_APP</setting>
<setting name="cloud.services.client.secret">CLIENT_SECRET_FROM_APP</setting>
</deviceSettings>
```

### Notes:

- Depending on the location of the data center, the **<env>** can be **us** or **eu**. To determine the value of **<env>**, see the address on the browser address field.
- For more information on getting the client ID for **CLIENT\_ID\_FROM\_APP** and the client secret for **CLIENT\_SECRET\_FROM\_APP**, see [“Obtaining the client ID and client secret” on page 362](#).

### Note:

- 5 From the settings bundle, you can also modify the **security\_settings.xml** to add Cloud Print Release in the Public permission section. To modify the **security\_settings.xml**, open the file with a text editor.
- 6 Add the **<name>cloud print release</name>** line to the **<public\_permissions>** section.

## Sample Code for <public\_permissions> section

```
<public_permissions>

<name> cancel jobs</name>
<name>change languages</name>
<name>cloud connector management</name>
<name>cloud print release</name>
<name>cloud services enrollment</name>
<name>cloud services menu</name>
```

- 7 Save the file.

- 8 Send the XML file into a ZIP folder.

**Note:** You can add this settings bundle to the resource library. For more information, see [“Adding files to the resource library” on page 335](#).

- 9 Deploy the settings bundle from the Lexmark Fleet Management portal, or import the settings in the printer by using the Embedded Web Server. For more information, see [“Deploying files to printers” on page 326](#).



## Configuring Cloud Print Release using the Embedded Web Server

- 1 Before you begin, in the Embedded Web Server, click **Security**.
- 2 From the Public section, click **Manage Permissions**.
- 3 Expand the **Device Management** section, and then select **Cloud Print Release**.

**Note:** The Cloud Print Release option is available only with appropriate firmware installed.

- 4 From the Embedded Web Server, click **Settings** > **Cloud Services** > **Cloud Print Release**.

- 5 In the Server Address field, type the address of the cloud server.

**Note:** The server address is **https://api.<env>.iss.lexmark.com**, where **<env>** can be **us** or **eu**. To determine the value of **<env>**, see the address on the browser address field.

- 6 Type the client ID and client secret.

**Note:** The client ID and client secret are organization-specific. For more information, see [“Obtaining the client ID and client secret” on page 362](#).

- 7 Click **Save**.

## Releasing print jobs using Cloud Print Release

- 1 Send print jobs to the Lexmark Cloud print queue. For more information on print queue, see [“Managing print queues” on page 363](#).
- 2 From the printer that has the Cloud Print Release feature, in the printer home screen, touch **Cloud Print Release**.
- 3 Depending on the printer login configuration of your organization, log in to the printer using any of the authentication methods:
  - PIN only
  - Secure login code

**Note:** Cloud Print Release login is based on the printer login configuration set in Account Management by the organization administrator. For more information on configuring printer login, see [“Managing printer logins” on page 284](#).

- 4 Enter the PIN or secure login code, and click **OK**.
- 5 Wait for the printer to release all pending print jobs.

**Note:** Jobs that are successfully printed are deleted from the print queue. Jobs that are canceled or not successfully printed are not deleted from the print queue.

## Printing jobs from third-party printers using Cloud Print Management

For third-party printers and Lexmark printers that are not Lexmark solutions enabled, customers can use the Third-party Print feature to release print jobs using Cloud Print Management.

To enable third-party printing using Cloud Print Management, Lexmark provides a bundle which includes the ELATEC badge reader and the ELATEC TCP3 device. The TCP3 devices are connected to the wall and the printer through an Ethernet cable. The device is also connected to the badge reader through USB.



API endpoints in the Lexmark Cloud Print Management are used by the ELATEC device to connect securely. The base firmware on the TCP3 device includes the specific API calls and open authorization workflows to connect to Cloud Print Management. The firmware on the TCP3 device must be version 3.0.3.1 or later.

**Notes:**

- Hybrid jobs are not supported.
- There are no file size limits as the jobs are not stored in the TCP3 device.
- You can configure the maximum number of jobs allowed at one time. For instance, if the maximum number of jobs configured is 10, then the first 10 jobs submitted are printed. If there are more than 10 jobs in the queue, swipe your badge again to release the remaining print jobs.
- Job submission through Lexmark Cloud Print Management portal using Lexmark Universal Print Driver does not modify the print output. However, job submission using Lexmark Universal Print Driver to a non-Lexmark device may not yield the intended print output. The third-party printer may interpret the print job commands incorrectly independent of the Cloud Print Management system. We recommend using the PostScript emulation driver if third-party devices are to be used with Lexmark-solutions-enabled devices for release.
- The TCP3 device does not report on metadata at the time of release. Relevant data like mono or color is captured at the time of submission.
- ELATEC feeds the Lexmark Cloud Services with printer information like IP address and Serial Number of the third-party printer. However, for the MAC address, it provides the MAC address of the ELATEC TCP3 device. Also, there is some information which the ELATEC TCP3 device is unable to retrieve from the third-party printer. This information is marked as unknown in Lexmark Cloud Services.

For more information on configuring the ELATEC TCP3 device, see the [TCP3 Configuration Guide](#).

## Using the Mobile Enhanced Solutions

### Understanding Mobile Enhanced Solutions for Print Management

Mobile Enhanced Solutions is a cloud-based solution offered by Lexmark Cloud Services. It allows you to connect to your printers and perform cloud-based tasks with a mobile phone or tablet. To use Mobile Enhanced Solutions, your printers must be managed with Cloud Fleet Management using the Native Agent. This action allows Lexmark Cloud Services to communicate with the printer using IoT commands. Also, your printer firmware must support Mobile Enhanced Solutions, and Mobile Enhanced Solutions must be enabled from the administrator options of the printer.

**Note:** Mobile Enhanced Solutions is available only in printers with 2.8-inch touch-screen displays. For more information on Mobile Enhanced Solutions, see [“Mobile Enhanced Solutions” on page 420](#).

## Using Direct Print

The Direct Print feature helps to track jobs that are directly sent to Lexmark printers for users in Lexmark Cloud Services. Using Direct Print, these jobs do not go through a global queue and are not released through the Print Release application. When Lexmark Print Management Client (LPMC) is installed in a workstation, users submitting jobs must enter credentials. LPMC sends the user-level data to the Lexmark Cloud Services portal. This data helps Lexmark Cloud Services to track print activities for users in Lexmark Cloud Services. The print job never leaves the customer network and is never held for release, but is sent and printed immediately to the designated printer.



The Direct Print installation package includes a configuration XML file that contains the printer profile information to ensure jobs are sent to the specified printers.

To let users select which printer to send their job directly, do the following:

- Install the required settings in your workstation along with the LPMC software.
- Assign the direct printers in the cloud.
- Deploy the Direct Print configuration to the user workstation.

Direct Print can be used with cloud and hybrid submissions as well, allowing more flexibility in the allowable end-user print endpoints and workflows.

Before you begin, make sure that:

- Direct Print is enabled for the organization. For more information on enabling Direct Print, see [“Configuring organizational settings” on page 354](#).
- LPMC Windows version 2.3.1145.0 with proper configuration is available.
- LPMC macOS version 3.3.0 or later is installed.
- Ubuntu version 3.3.0 or later is installed.
- Device Usage version 2.4.32 is installed.
- The printer is enrolled in Cloud Fleet Management and is attached to a network.
  - For Lexmark eSF enabled printers, make sure that the Cloud Print Management application bundle is installed on the device.
  - For Lexmark eSF printer or a non-eSF printer, make sure that Lexmark Universal Print Driver must be installed with the LPMC.
- The client workstation is connected to the network and access to port 9100 is enabled.
- Direct Print roles are defined. For more information on defining roles, see [“Organization administrator” on page 242](#). The Direct Print roles are as follows:

### **Direct Print administrator**

- Provides access to Direct Print users
- Create configurations using Cloud Fleet Management tags
- Downloads configurations from Print Clients page

### **Direct Print user**

- Downloads personal Direct Print installation package from Print Clients page
- Submits print jobs using Direct Print

**Note:** When the Direct Print feature is enabled by a Direct Print administrator, configuration settings become available.

## **Creating an assignment for the Direct Print feature**

Before you begin, make sure that Enable direct print is selected on the Organizational Settings page. For more information on enabling Direct Print, see [“Configuring organizational settings” on page 354](#).

You must have an administrator role in Cloud Print Management and Cloud Fleet Management to configure the Direct Print feature. To configure Direct Print, you must create assignments. Assignments act as a bridge between a cost center or a department or a user and a set of printers. Creating an assignment helps a department or cost center or a user to use the Direct Print feature on a particular set of printers.



**Notes:**

- From the Fleet Management portal, we recommend updating the Printer name (optional) field on the Printer details page. It is not mandatory to update this field. If you want to change the print queue name as it appears to the end user, then enter a value in the Printer name (optional) field. If no value is entered, then the print queue appears as the default or custom prefix followed by the IP address of the printer.
- Printers to be used in an assignment must have a tag associated with them. A tag which is a construct in Cloud Fleet Management is maintained within Cloud Fleet Management and can have multiple printers assigned to it. Also, an individual printer can have multiple tags assigned to it. For more information on creating tags, see [“Creating tags” on page 325](#).

**1** From the Print Management web portal, click **Administration > Direct Print Assignments**.

**2** Depending on the organizational settings, select **Cost Centers**, **Departments**, or **Personal**.

**Notes:**

- When administrators create an assignment for a department, the users in that department can access the Direct Print feature.
- When administrators create a personal assignment for specific users, the same users can access the Print Clients page to download the Direct Print installation package for the particular assignment. Using their personal assignment, end users can then retrieve their own Direct Print installation package after the administrator has created them.

**3** Click **Create Assignment**.

**Notes:**

- If there are existing assignments, then you can edit, delete, or filter the assignments by tags.
- To edit an existing assignment, click the name of the assignment.
- To delete an existing assignment, select the assignment, and then click **Delete Assignment**.
- To filter assignments by tags, from the Printer Tags menu, select the tags.

**4** In the Create Direct Print Assignment window, configure the following:

**For Cost Center**

- **Assignment name**—Type a unique assignment name.
- **Cost center name**—Type the name of the cost center in Account Management.
- **Preferred print queue name**—Select any of the following:
  - **Default**—Default or custom prefix followed by the IP address of the printer.
  - **Hostname**—Value of the network host name of the printer. If no value is entered, then the print queue name appears as the default or custom prefix followed by the IP address of the printer.
  - **Printer name**—Value of the printer name of the printer. If no value is entered, then the print queue name appears as the default or custom prefix followed by the IP address of the printer.
- **Tags identifying printers this cost center may use for direct printing**—Type the printer tags to identify the printers that you want to use for Direct Print, and then click **Add**. For more information on tags, see [“Assigning tags to printers” on page 325](#).



### For Personal

- **Assignment name**—Type a unique assignment name.
- **E-mail addresses of registered users to be included in this assignment**—Type the email address of the user.

**Note:** In the “E-mail addresses of registered users to be included in this assignment” field, you can add only addresses of users with Direct Print access.

- **Preferred print queue name**—Select any of the following:
  - **Default**—Default or custom prefix followed by the IP address of the printer.
  - **Hostname**—Value of the network host name of the printer. If no value is entered, then the print queue name appears as the default or custom prefix followed by the IP address of the printer.
  - **Printer name**—Value of the printer name of the printer. If no value is entered, then the print queue name appears as the default or custom prefix followed by the IP address of the printer.
- **Tags identifying printers these users may use for direct printing**—Type the printer tags to identify the printers that you want to use for Direct Print, and then click **Add**. For more information on tags, see [“Assigning tags to printers” on page 325](#).

### For Department

- **Assignment name**—Type a unique assignment name.
- **Department name**—Type the name of the department in Account Management.
- **Preferred print queue name**—Select any of the following:
  - **Default**—Default or custom prefix followed by the IP address of the printer.
  - **Hostname**—Value of the network host name of the printer. If no value is entered, then the print queue name appears as the default or custom prefix followed by the IP address of the printer.
  - **Printer name**—Value of the printer name of the printer. If no value is entered, then the print queue name appears as the default or custom prefix followed by the IP address of the printer.
- **Tags identifying printers this department may use for direct printing**—Type the printer tags to identify the printers that you want to use for Direct Print, and then click **Add**. For more information on tags, see [“Assigning tags to printers” on page 325](#).

#### Notes:

- You can add multiple tags to each unique printer.
- You can view the total number of unique printers that are tagged.
- If the total number of unique printers attached to the tags exceeds 10, then you cannot download the Direct Print installation package.

### 5 Click **Create Assignment**.

## Downloading the Direct Print installation package

- 1 From the Print Management web portal, click **Print Clients**.
- 2 From the Select client menu, select an operating system.
- 3 From the Select package type menu, select **Direct Print**.
- 4 Depending on the organizational settings, select **Cost Centers**, **Departments**, or **Personal**.
- 5 Select the assignments that you want to download.

**Note:** You can select one or more assignments.



**6** Click **Download Client**.

**7** Click **Download**.

## Sample configuration file:

```
<?xml version="1.0" encoding="utf-8"?>
<DirectPrintConfiguration>
  <AllPrintSettingDetails>
    <PrintJobFileNameFormat>%d_%i.prn</PrintJobFileNameFormat>
    <APIVersion>3.0</APIVersion>
    <PrintSettingDetails>
      <LoopbackPort>9151</LoopbackPort>
      <LoopbackPortName>DirectPrintPort9151</LoopbackPortName>
      <PrintQueueName>MOJA</PrintQueueName>
      <DestIPAddress>10.194.8.166</DestIPAddress>
      <TrueUpData>>false</TrueUpData>
    </PrintSettingDetails>
    <PrintSettingDetails>
      <LoopbackPort>9152</LoopbackPort>
      <LoopbackPortName>DirectPrintPort9152</LoopbackPortName>
      <PrintQueueName>
DirectPrintQueue-10.194.17.212</PrintQueueName>
      <DestIPAddress>10.194.17.212</DestIPAddress>
      <TrueUpData>>true</TrueUpData>
    </PrintSettingDetails>
  </AllPrintSettingDetails>
  <LPMServerSettings>
    <ServerIP>apis.us.iss.lexmark.com/cpm</ServerIP>
    <ServerPort>443</ServerPort>
  </LPMServerSettings>
  <IDPServerSettings>
    <ServerIP>idp.us.iss.lexmark.com</ServerIP>
    <ServerPort>443</ServerPort>
  </IDPServerSettings>
  <APIVersion>3.0</APIVersion>
</DirectPrintConfiguration>
<ESFDirectPrintListenerPort>9443</ESFDirectPrintListenerPort>
  <DriverName>Lexmark Universal v2 XL</DriverName>
</DirectPrintConfiguration>
```

**Note:** For more information on configuration, see the *Lexmark Print Management Client Configuration Guide*.

To ensure that analytics data appears the same way as other user-related print data, the version of Device Usage must be correct. In this case, the data differs in the following ways:

- The user print job details are displayed in the Printer Activity Detail report.
- The IP address column shows **<x.y.z.y> (Direct)**, where **<x.y.z.y>** is the IP address of the printer.
- Page numbers and other metadata reflected for the print job details represent the user intent of the submission and may not represent the actual print output. For instance, a user may send a four-page color job to a mono printer without the correct version of the eSF application. In this case, the job details show that a four-page color job was printed.



## Installing the Direct Print installation package

**Note:** If you download the Direct Print installation package for one assignment, then the folder contains an executable file and an XML configuration file. If you download the Direct Print installation package for multiple assignments, then the folder contains an executable file and multiple folders. Each of the multiple folders contains a **DirectPrintConfiguration.xml** file. There is one folder for each assignment that is downloaded simultaneously.

- 1** From the Direct Print installation package, run the Installer file.
- 2** Accept the End-User License Agreement.
- 3** Click **Install**.
- 4** Click **Finish**.



# Scan Management

## Overview

Use the Cloud Scan Management web portal to do the following:

- Configure Scan Management settings.
- Create scan destinations using the Microsoft OneDrive, SharePoint, Google Drive, Box, and Dropbox cloud service providers.
- Customize scan settings for each scan destination.

The Scan Management web portal also works with the Cloud Scan application.

**Cloud Scan** is an eSF application that lets users scan documents using Lexmark printers to destinations set in the Lexmark Cloud Services by the Scan Management Administrator.


**Note:** This feature is available only in some printer models. For more information, see [“Supported printer models” on page 30](#).

## Accessing the Scan Management web portal

Open a web browser, and then do either of the following:


- From the dashboard, click **Scan Management**.

**Note:** If the card is not available in the dashboard, then add the card. For more information, see [“Managing the dashboard” on page 23](#).

- From your current web portal, click  on the upper-right corner of the page, and then click **Scan Management**.

## Configuring the Scan Management settings

As an administrator, you can configure the Scan Management settings.

- 1 From the Scan Management web portal, click  on the upper-right corner of the page.
- 2 Configure the following settings:
  - **Enable Scan Management for your organization**—Allow users to access Scan Management from Lexmark Cloud Services.
  - **Allow users to create personal scan destinations**—Allow users to create private scan destinations that only they can access.
  - **Select at least one cloud storage provider for this organization**—Select one or more of the following: **Microsoft (SharePoint and OneDrive)**, **Google (Google Drive)**, **Box**, and **Dropbox**.
  - **Account domains associated with the cloud storage providers (Optional)**—Specify the list of account domains supported by your organization for your users.

**Note:** Make sure to select **Enable Scan Management for your organization**.

  - **Enable option to choose folder from the printer panel**—Allow users to select a folder from the control panel.



- 3 Click **Save Settings**.

## Managing a cloud storage account

Make sure that you have a Microsoft, Google™, Box, or Dropbox account to create, edit, or use scan destinations.

### Selecting an account

- 1 From the Scan Management web portal, do either of the following:

- Click **Cloud Storage Account** > **Select an account** > **Continue**.

**Note:** Depending on the requirement, select an account from the Microsoft, Google, Box, or Dropbox section. This feature is available only if you are not logged in to an account.

- Click **Select an account** > **Continue**.

- 2 Sign in to your account.

### Changing an account

**Note:** This feature is available only if you are logged in to your account.

- 1 From the Scan Management web portal, click **Cloud Storage Account**.
- 2 From the Microsoft, Google, Box, or Dropbox section, click **Change account**.
- 3 Sign in to your account.

### Forgetting an account

**Note:** This feature is available only if you are logged in to your account.

- 1 From the Scan Management web portal, click **Cloud Storage Account**.
- 2 From the Microsoft, Google, Box, or Dropbox section, click **Forget this account** > **Forget Account**.

## Managing scan destinations

A scan destination is a cloud storage service to which a user can send scanned documents. A Scan Management Administrator enables and manages the scan destination in the Lexmark Cloud Services.

The following cloud storage services are used for scan destinations:

- Microsoft OneDrive
- Microsoft SharePoint
- Google Drive
- Box
- Dropbox

**Note:** Make sure that you have a Microsoft, Google, Box, or Dropbox account to access cloud storage services and to manage scan destinations.



## Creating a scan destination

- 1 From the Scan Management web portal, select either **Organizational** or **Personal**.

### Notes:

- The Personal tab is available only if the administrator enables **Allow users to create personal scan destinations**. For more information, see [“Configuring the Scan Management settings” on page 387](#).
- If you want to create a private scan destination, then select **Personal**.

- 2 Click **Create**.

- 3 Configure the settings.

### General

- **Scan Destination Name**
- **Description (Optional)**
- **Cloud storage service**—Configure either of the following:
  - **Google Drive**
    - a From the Drive name menu, select the destination Google Drive.
    - b From the Scan location folder section, click **Choose Folder** > **Select the folder** > **Choose Folder** to select the destination Google Drive folder.
  - **OneDrive**—This option is private to each user's account, and the configuration is setting the structure for file storage in their account only. When an organizational OneDrive scan destination is executed, the path and folder structure is created on the user's OneDrive account.

### Notes:

- The administrator account does not have access to the user's folders.
- The users of the configuration do not have access to the administrator's account folders. When a user tries to access the Organizational profile from the control panel and then clicks the folder navigation icon, an error message appears. The user must select another folder in the drive to scan to that location.
- a From the Scan location folder section, click **Choose Folder** to browse to the scan destination folder.

### Notes:

- If the folder structure does not exist, then it is created.
- Administrators who need a structure beyond root drives can use the folder structure of their OneDrive account as a template.
- b Select the folder, and then click **Choose Folder** to select the destination OneDrive folder.
- **SharePoint**
  - a From the Site or library name menu, select the destination SharePoint site or library.
  - b From the Scan location folder section, click **Choose Folder** > **Select the folder** > **Choose Folder** to select the destination SharePoint folder.
- **Box**
  - a From the Scan location folder section, click **Choose Folder** to browse to the scan destination folder.
  - b Select the folder, and then click **Choose Folder** to select the destination Box folder.

**Note:** Only personal scan destinations are supported in Box.



- **Dropbox**

- a From the Scan location folder section, click **Choose Folder** to browse for the scan destination folder
  - b Select the folder, and then click **Choose Folder** to select the destination Dropbox folder.

**Note:** Only personal scan destinations are supported in Dropbox.

**Note:** To discard a folder, click **Cancel**.

- **File name**—Specify the file name for the scanned image.
- **Append a date-time stamp to the file name**—Add the date and time to the name of the scanned file.
- **Allow entering a file name from the control panel**—Let the user specify a file name before the scan job starts.
- **Show scan settings on the control panel**—Show the scan settings before the scan job starts.
- **Allow changing the folder from the control panel**—Let the user choose the folder from the control panel.

### Scan Settings

- **Use default scan settings**—Use the default printer settings.
- **Use custom scan settings**—Configure the scan settings of the printer.

**Note:** Some settings are available only in some printer models.

- **Enable scan preview if supported by the printer**
- **Color mode**
- **Content type**
- **Original size**
- **Sides**—Specify the page orientation of text and graphics when scanning a two-sided document.
- **Resolution**
- **File Format**—Select the file format from TIFF, JPEG, and PDF.

**Note:** If Show Scan settings on the control panel is enabled, then you can change the file type.

- **Enable custom scan job**
- **Contrast**

### 4 Click **Create Destination**.

### Editing a scan destination

- 1 From the Scan Management web portal, in the list of scan destinations, select a scan destination.
- 2 Configure the settings.
- 3 Click **Save Changes**.

### Deleting a scan destination

- 1 From the Scan Management web portal, in the list of scan destinations, select one or more scan destinations.
- 2 Click **Delete > Delete Destination**.



## Sending scan jobs using the Cloud Scan application

### Notes:

- You can scan to up to 50 destinations.
- Only administrators can create destinations.
- Scanning to multiple destinations is not supported.
- If the Device Quotas application is running in your printer, then stop or uninstall it when scanning to a destination.

You can deploy scan configuration to printers. Administrators can deploy Cloud Scan Management configuration from the Cloud Fleet Management applications catalog so that the Cloud Scan and Cloud Authentication applications are installed to the printer. For more information on deploying configurations to printers, see [“Deploying configurations to printers” on page 341](#).

- 1 Load a document into the automatic document feeder or on the scanner glass.
- 2 From the printer home screen, touch **Cloud Scan**.
- 3 Select a scan destination, and then touch **Next**.

### Notes:

- Make sure that you are logged in to your cloud account. If necessary, touch **E-mail** to send instructions to your email on how to log in.
- In some older printer models, some text may scroll very fast while navigating the scan details.
- In some older printer models, some text may appear bigger for lengthy scan details.
- In some models, the Scan Destination page and Scan settings page may display inconsistent translated text.
- If the printer has hard drive, you can upload a JPEG file with a maximum file size of 20MB.
- For printers with eSF version 4.0 or earlier, Cloud Scan Management application performance is slower as compared to printers with eSF version 5.0 or later.

- 4 Type the file name, and then touch **Next**.

### Notes:

- Make sure that **Allow entering a filename from the control panel** is selected on the Cloud Scan Management portal.
- If needed, you can update the folder location in the panel.

- 5 If necessary, change the scan settings.

### Notes:

- Make sure that **Show scan settings on the control panel** is selected on the Cloud Scan Management portal.
- The maximum file size is 20MB.
- If you want to scan a multi-page document, then select **Scan The Next Page**.

- 6 Touch **Send**.



# Analytics

Use the Analytics web portal to generate reports on usage and printer activity.

## Accessing the Analytics web portal

**Note:** The screenshots may vary depending on the latest release.

Open a web browser, access the Lexmark Cloud Services dashboard, and then do either of the following:

- From the dashboard, click the **Analytics** card.

**Note:** If the card is not available, then add the card. For more information, see [“Managing the dashboard” on page 23](#).

- From your current web portal, click  on the upper-right corner of the page, and then click **Analytics**.

**Note:** A new Print Outlier report is now available in Analytics 2.0. You can access **Analytics 2.0** from the Analytics web portal. For more information, see [“Understanding the Print Outliers report” on page 407](#).

## Understanding reports

Reports can include dates up to two years before the current date.

**Notes:**

- An impression is a side of a sheet of paper that contains toner.
- A page is a digital area where content is printed.
- A sheet is a piece of paper.



Report Level	Report type	Report items
<b>Organization</b>	<b>Organization Overview</b> —Shows an overview of the printer activities of the organization over the specified date range.	<ul style="list-style-type: none"> <li>• <b>Total</b> <ul style="list-style-type: none"> <li>– <b>Impressions</b>—The total number of impressions that are printed.</li> <li>– <b>Sheets</b>—The total number of sheets that are printed.</li> <li>– <b>Printed Jobs</b>—The total number of printed jobs.</li> <li>– <b>Total Jobs In Queue Now</b>—The total number of jobs that are currently in the Lexmark Cloud Services print queue.</li> </ul> </li> <li>• <b>Printed / Deleted (Pages)</b>—A graph that shows the number of pages that are printed and the number of pages that are deleted, based on the number of submitted pages. Pages that are deleted are expired or were removed manually.</li> <li>• <b>Job Size (Number of Jobs)</b>—A graph that shows a distribution of the job size based on the number of submitted pages for each job.</li> </ul>
<b>Department</b>	<b>Department Overview</b> —Shows an overview of the printer activities of the selected department over the specified date range.	<ul style="list-style-type: none"> <li>• <b>Paper Size (Pages)</b>—A graph that shows the number of pages that are printed per paper size.</li> <li>• <b>Paper Type (Pages)</b>—A graph that shows the number of pages that are printed per paper type.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Print Usage (Impressions)</b>—A graph that shows the daily print usage over the specified date range.</li> <li>• <b>Submitted Jobs</b> <ul style="list-style-type: none"> <li>– <b>Submission Methods (Pages)</b>—A graph that shows the number of pages submitted per submission method, such as web browser, e-mail, or mobile device.</li> <li>– <b>Document Type (Pages)</b>—A graph that shows the number of pages submitted per job type, such as text or image.</li> </ul> </li> <li>• <b>Most Used Printers</b>—A table that lists the printers with the highest usage. The list shows the last known IP address and model name of the printers, and are sorted based on the number of printed impressions.</li> <li>• <b>Top Users</b>—A table that lists the users with the highest usage. The list shows the user name and e-mail address of the users, and are sorted based on the total number of printed impressions per user.</li> </ul>
<b>Cost Center</b>	<b>Cost Center Overview</b> —Shows an overview of the printer activities of the selected cost center over the specified date range.	<ul style="list-style-type: none"> <li>• <b>Paper Size (Pages)</b>—A graph that shows the number of pages that are printed per paper size.</li> <li>• <b>Paper Type (Pages)</b>—A graph that shows the number of pages that are printed per paper type.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Print Usage (Impressions)</b>—A graph that shows the daily print usage over the specified date range.</li> <li>• <b>Submitted Jobs</b> <ul style="list-style-type: none"> <li>– <b>Submission Methods (Pages)</b>—A graph that shows the number of pages submitted per submission method, such as web browser, e-mail, or mobile device.</li> <li>– <b>Document Type (Pages)</b>—A graph that shows the number of pages submitted per job type, such as text or image.</li> </ul> </li> <li>• <b>Most Used Printers</b>—A table that lists the printers with the highest usage. The list shows the last known IP address and model name of the printers, and are sorted based on the number of printed impressions.</li> <li>• <b>Top Users</b>—A table that lists the users with the highest usage. The list shows the user name and e-mail address of the users, and are sorted based on the total number of printed impressions per user.</li> </ul>
<b>Full Data Export</b>	<b>Full Data Export</b> —The feature allows users to select monthly or up to 31 days of data in the custom date range for report generation. It sends an e-mail with links to download reports with all user level transactional data captured by Cloud Print Management. The e-mail contains links to download two reports, one for submission, and the other for release.	<ul style="list-style-type: none"> <li>• <b>Paper Size (Pages)</b>—A graph that shows the number of pages that are printed per paper size.</li> <li>• <b>Paper Type (Pages)</b>—A graph that shows the number of pages that are printed per paper type.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Print Usage (Impressions)</b>—A graph that shows the daily print usage over the specified date range.</li> <li>• <b>Submitted Jobs</b> <ul style="list-style-type: none"> <li>– <b>Submission Methods (Pages)</b>—A graph that shows the number of pages submitted per submission method, such as web browser, e-mail, or mobile device.</li> <li>– <b>Document Type (Pages)</b>—A graph that shows the number of pages submitted per job type, such as text or image.</li> </ul> </li> <li>• <b>Most Used Printers</b>—A table that lists the printers with the highest usage. The list shows the last known IP address and model name of the printers, and are sorted based on the number of printed impressions.</li> <li>• <b>Top Users</b>—A table that lists the users with the highest usage. The list shows the user name and e-mail address of the users, and are sorted based on the total number of printed impressions per user.</li> </ul>



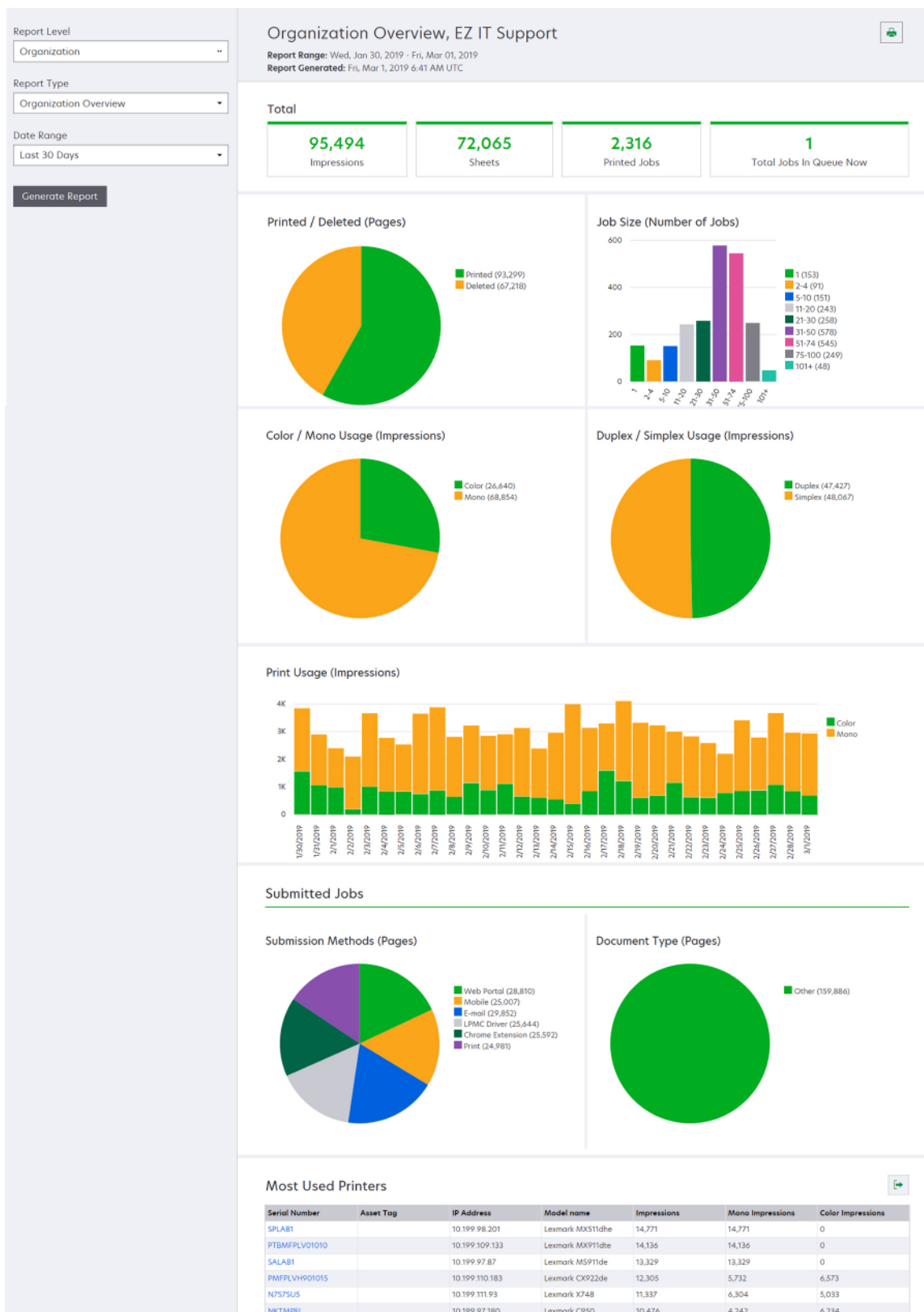
Report Level	Report type	Report items
<b>Full Data Export</b>	<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>The e-mail is sent to the e-mail address of the logged-in user.</li> <li>The e-mail has information like the organization and duration for which the report is generated, and expiry time of the link.</li> <li>For <b>PRINTJOBNAMES</b>, the report supports English file names only. For more information on getting the correct file name for other languages, see <a href="#">“Report does not show the correct file name” on page 447</a>.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Total</b> <ul style="list-style-type: none"> <li>– <b>Impressions</b>—The total number of impressions that are printed.</li> <li>– <b>Sheets</b>—The total number of sheets that are printed.</li> <li>– <b>Printed Jobs</b>—The total number of printed jobs.</li> <li>– <b>Total Jobs In Queue Now</b>—The total number of jobs that are currently in the Lexmark Cloud Services print queue.</li> </ul> </li> <li>• <b>Printed / Deleted (Pages)</b>—A graph that shows the number of pages that are printed and the number of pages that are deleted, based on the number of submitted pages. Pages that are deleted are expired or were removed manually.</li> <li>• <b>Job Size (Number of Jobs)</b>—A graph that shows a distribution of the job size based on the number of submitted pages for each job.</li> <li>• <b>Paper Size (Pages)</b>—A graph that shows the number of pages that are printed per paper size.</li> <li>• <b>Paper Type (Pages)</b>—A graph that shows the number of pages that are printed per paper type.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Print Usage (Impressions)</b>—A graph that shows the daily print usage over the specified date range.</li> <li>• <b>Submitted Jobs</b> <ul style="list-style-type: none"> <li>– <b>Submission Methods (Pages)</b>—A graph that shows the number of pages submitted per submission method, such as web browser, e-mail, or mobile device.</li> <li>– <b>Document Type (Pages)</b>—A graph that shows the number of pages submitted per job type, such as text or image.</li> </ul> </li> <li>• <b>Most Used Printers</b>—A table that lists the printers with the highest usage. The list shows the last known IP address and model name of the printers, and are sorted based on the number of printed impressions.</li> <li>• <b>Top Users</b>—A table that lists the users with the highest usage. The list shows the user name and e-mail address of the users, and are sorted based on the total number of printed impressions per user.</li> </ul>
<b>User</b>	<p><b>User Overview</b>—Shows an overview of the printer activities of the selected user over the specified date range.</p>	



Report Level	Report type	Report items
<b>Client Version Export</b>	<p><b>Client Version Export</b> —Downloads a report of every user's last print job submission details. The report captures submission through the LPMC or Google Chrome extension client only. The report also contains the version number of the client that is used during the last job submission.</p> <p><b>Note:</b> If a user uses two different versions of the same client, then the report captures only the latest version of the client.</p>	<ul style="list-style-type: none"> <li>• <b>Total</b> <ul style="list-style-type: none"> <li>– <b>Impressions</b>—The total number of impressions that are printed.</li> <li>– <b>Sheets</b>—The total number of sheets that are printed.</li> <li>– <b>Printed Jobs</b>—The total number of printed jobs.</li> <li>– <b>Total Jobs In Queue Now</b>—The total number of jobs that are currently in the Lexmark Cloud Services print queue.</li> </ul> </li> <li>• <b>Printed / Deleted (Pages)</b>—A graph that shows the number of pages that are printed and the number of pages that are deleted, based on the number of submitted pages. Pages that are deleted are expired or were removed manually.</li> <li>• <b>Job Size (Number of Jobs)</b>—A graph that shows a distribution of the job size based on the number of submitted pages for each job.</li> <li>• <b>Paper Size (Pages)</b>—A graph that shows the number of pages that are printed per paper size.</li> <li>• <b>Paper Type (Pages)</b>—A graph that shows the number of pages that are printed per paper type.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Print Usage (Impressions)</b>—A graph that shows the daily print usage over the specified date range.</li> <li>• <b>Submitted Jobs</b> <ul style="list-style-type: none"> <li>– <b>Submission Methods (Pages)</b>—A graph that shows the number of pages submitted per submission method, such as web browser, e-mail, or mobile device.</li> <li>– <b>Document Type (Pages)</b>—A graph that shows the number of pages submitted per job type, such as text or image.</li> </ul> </li> <li>• <b>Most Used Printers</b>—A table that lists the printers with the highest usage. The list shows the last known IP address and model name of the printers, and are sorted based on the number of printed impressions.</li> <li>• <b>Top Users</b>—A table that lists the users with the highest usage. The list shows the user name and e-mail address of the users, and are sorted based on the total number of printed impressions per user.</li> </ul>

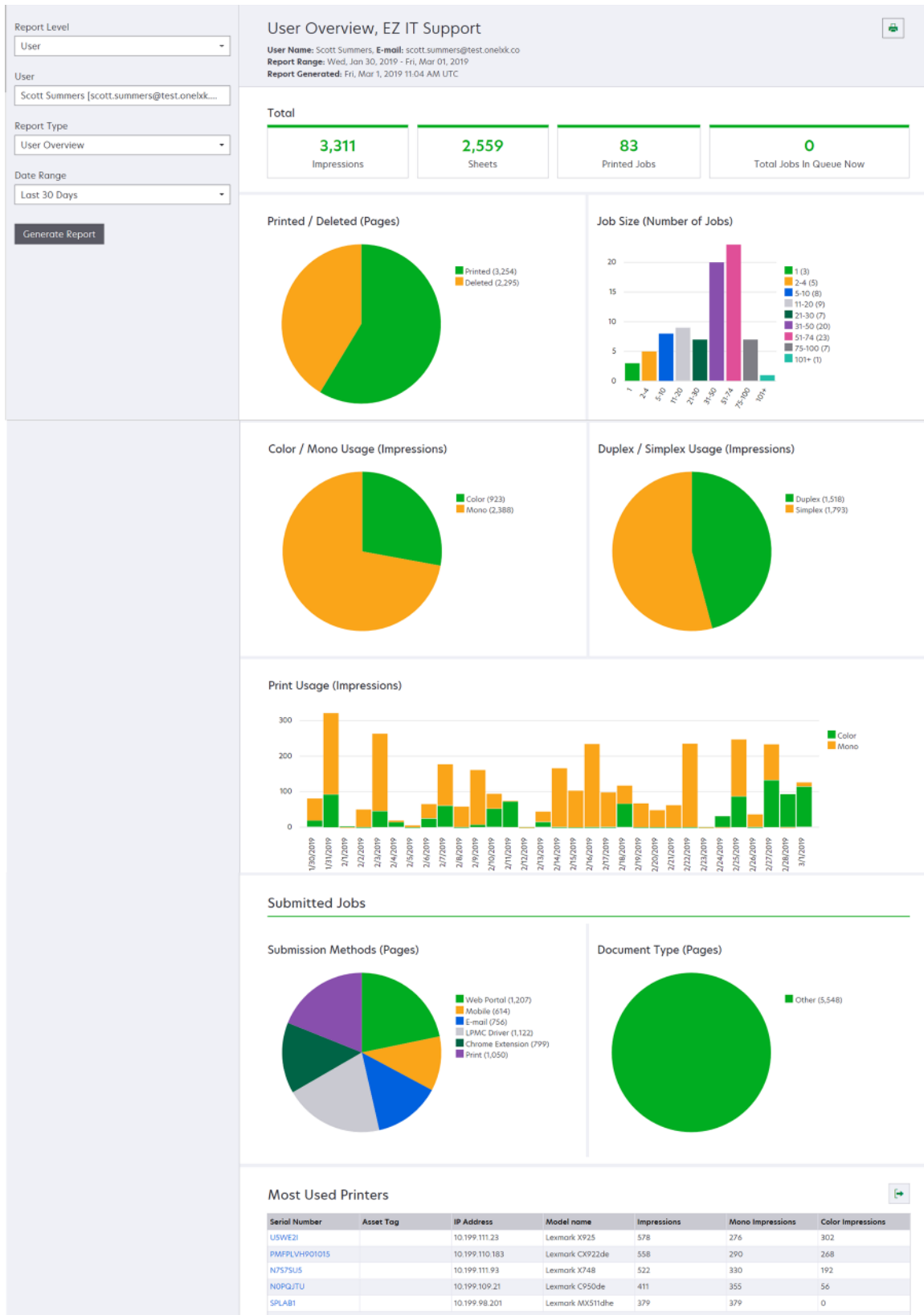


## Sample Organization Overview report





## Sample User Overview report





Report Level	Report type	Report items
Printer	<b>Printer Overview—</b> Shows an overview of the Lexmark Cloud Services tracked usage of the selected printer, based on the printer serial number.	<ul style="list-style-type: none"> <li>• <b>Total</b> <ul style="list-style-type: none"> <li>– <b>Impressions</b>—The total number of impressions that are printed.</li> <li>– <b>Sheets</b>—The total number of sheets that are printed.</li> <li>– <b>Printed Jobs</b>—The total number of printed jobs.</li> <li>– <b>Users</b>—The total number of users that are using the selected printer.</li> </ul> </li> <li>• <b>Job Size (Number of Jobs)</b>—A graph that shows a distribution of the job size based on the number of submitted pages for each job.</li> <li>• <b>Paper Size (Pages)</b>—A graph that shows the number of pages that are printed per paper size.</li> <li>• <b>Paper Type (Pages)</b>—A graph that shows the number of pages that are printed per paper type.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.  <b>Note:</b> This report appears only for color printers.</li> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Print Usage (Impressions)</b>—A graph that shows the daily print usage over the specified date range.</li> <li>• <b>Scan Usage (Pages)</b>—A graph that shows the total number of pages scanned per job type.  <b>Note:</b> This report appears only if the selected printer is an MFP.</li> <li>• <b>Top Users</b>—A table that lists the users with the highest usage. The list shows the user name and e-mail address of the users, and are sorted based on the total number of printed impressions per user.</li> <li>• <b>Top Cost Centers</b>—A table that lists the cost centers with the highest usage.</li> <li>• <b>Top Departments</b>—A table that lists the departments with the highest usage.</li> </ul>
	<b>Print Job History—</b> Shows the print jobs of the selected printer.	A table that lists all the print jobs of the selected printer. The list also shows the details per print job, such as the release time, impressions, page count, user, e-mail address, department, and cost center where the user belongs.
	<b>Printer Supplies History</b> —Shows the printer supplies used.	A table that lists the supplies used in the selected printer while it was enrolled in Lexmark Cloud Services.



Report Level	Report type	Report items
Printer	<b>Printer Hardware Statistics</b> —Shows the lifetime page counter information and the toner supply levels of the selected printer.	<ul style="list-style-type: none"><li>• <b>Total</b><ul style="list-style-type: none"><li>– <b>Impressions</b>—The total Lifetime Page Count of the selected printer over the specified date range.</li><li>– <b>Lifetime Impressions to Date</b>—The most recent Lifetime Page Count of the selected printer.</li></ul></li><li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that were printed over the specified date range.</li><li>• <b>Coverage Tiers</b>—A chart that shows the tiered color usage. The amount of color toner on the page determines whether the page falls into the Highlight Color tier, Business Color tier, or Graphics Color tier. <b>Note:</b> This report appears only in some printer models.</li><li>• <b>Lifetime Impressions to Date</b>—A chart that shows the increasing Lifetime Page Count over the specified date range.</li><li>• <b>Cartridge Usage</b>—A graph that shows the cartridge usage over the specified date range.</li></ul>



Sample Printer Overview report





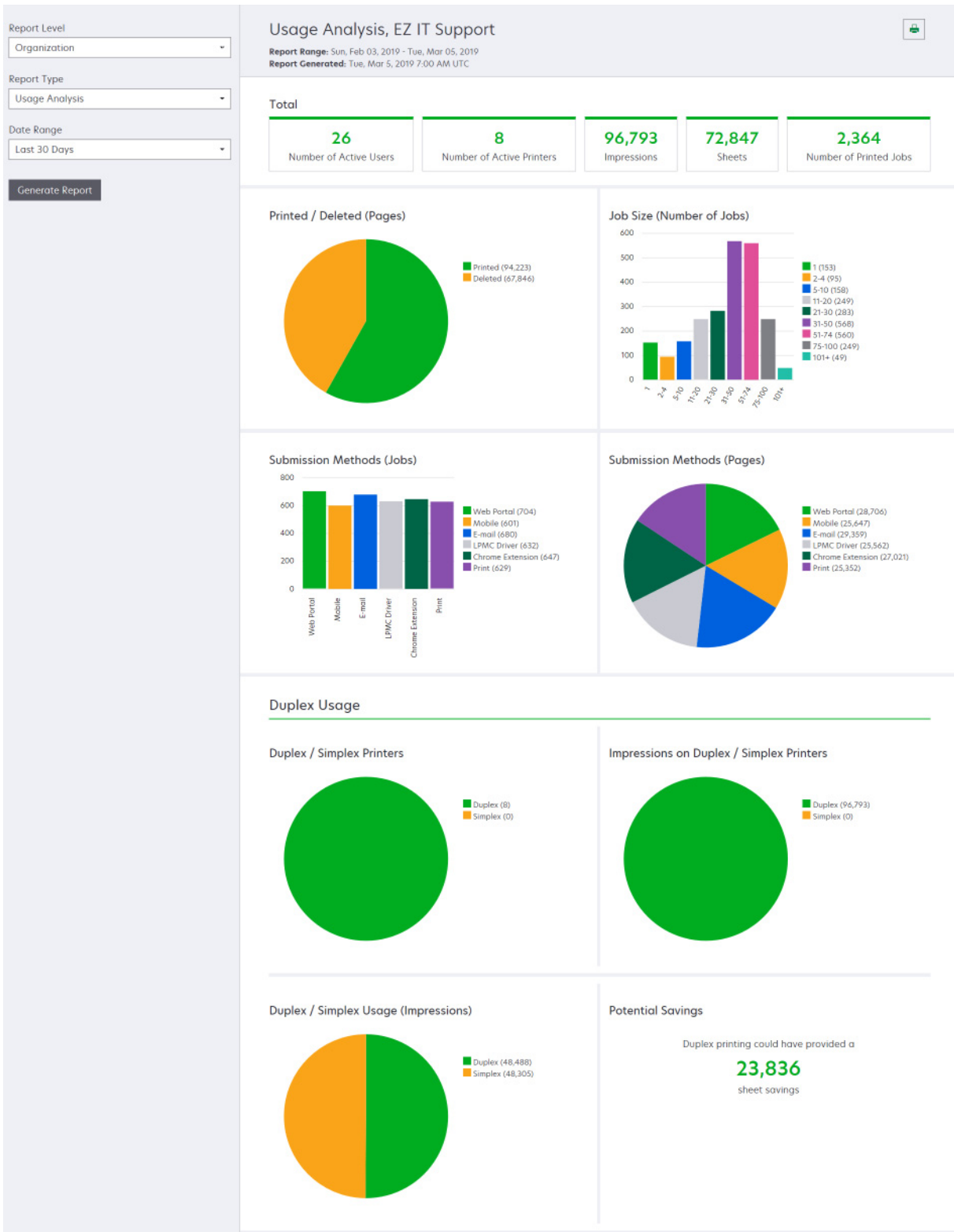
Report Level	Report type	Report items
<b>Organization, Cost Center, Department</b>	<b>Usage Analysis</b> —Shows a detailed report on the printer usage of the organization, or department over the specified date range. This report also shows some analysis on the fleet usage, such as potential savings and environmental impact.	<ul style="list-style-type: none"> <li>• <b>Total</b> <ul style="list-style-type: none"> <li>– <b>Number of Active Users</b>—The total number of users that have printed or scanned.</li> <li>– <b>Number of Active Printers</b>—The total number of printers that are used in printing or scanning.</li> <li>– <b>Impressions</b>—The total number of impressions that are printed.</li> <li>– <b>Sheets</b>—The total number of sheets that are printed.</li> <li>– <b>Number of Printed Jobs</b>—The total number of printed jobs.</li> </ul> </li> <li>• <b>Printed / Deleted (Pages)</b>—A graph that shows the number of pages that are printed and the number of pages that are deleted, based on the number of submitted pages. Pages that are deleted are expired or were removed manually.</li> <li>• <b>Job Size (Number of Jobs)</b>—A graph that shows a distribution of the job size based on the number of submitted pages for each job.</li> <li>• <b>Submission Methods (Jobs)</b>—A graph that shows the number of jobs submitted per submission method, such as web browser, e-mail, or mobile device.</li> <li>• <b>Submission Methods (Pages)</b>—A graph that shows the number of pages submitted per submission method, such as web browser, e-mail, or mobile device.</li> <li>• <b>Duplex Usage</b> <ul style="list-style-type: none"> <li>– <b>Duplex / Simplex Printers</b>—A graph that shows the number of printers that have a two-sided printing feature, and the number of printers that can do only one-sided printing.</li> <li>– <b>Impressions on Duplex / Simplex Printers</b>—A graph that shows the number of impressions printed on printers that have a two-sided printing feature, and the number of impressions printed on printers that can do only one-sided printing.</li> <li>– <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>– <b>Potential Savings</b>—The number of sheets of paper that could be saved when all jobs are printed as two-sided jobs.</li> </ul> </li> <li>• <b>Color Usage</b> <ul style="list-style-type: none"> <li>– <b>Color / Mono Printers</b>—A graph that shows the number of color printers and the number of black-and-white printers that have printed or scanned.</li> <li>– <b>Impressions on Color / Mono Printers</b>—A graph that shows the number of impressions printed on color printers and the number of impressions printed on black-and-white printers.</li> <li>– <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> </ul> </li> </ul>



Report Level	Report type	Report items
<b>Organization, Cost Center, Department</b>	<b>Usage Analysis</b> —Shows a detailed report on the printer usage of the organization, or department over the specified date range. This report also shows some analysis on the fleet usage, such as potential savings and environmental impact.	<ul style="list-style-type: none"><li>• <b>Top Users</b>—A table that lists the users with the highest usage. The list shows the user name and e-mail address of the users, and are sorted based on the total number of printed impressions per user.</li><li>• <b>Most Used Printers</b>—A table that lists the printers with the highest usage. The list shows the last known IP address and model name of the printers, and are sorted based on the number of printed impressions.</li><li>• <b>Least Used Printers</b>—A table that lists the printers with the lowest usage. The list shows the last known IP address and model name of the printers, and are sorted based on the number of printed impressions.</li><li>• <b>Environmental Impact</b>—The computed environmental impact based on the amount of printing done. This computation uses the Environmental Paper Network Paper Calculator version 3.2.1. For more information, go to the Environmental Paper Network website.</li></ul>



## Sample Usage Analysis report





Report Level	Report type	Report items
<b>Organization, Cost Center, Department, User</b>	<b>Printer Activity</b> —Shows the summary of the print and scan activities of all the printers of the organization, department, or user.	<p><b>Print Activity</b>—A table that lists the printers and shows their last known IP address, model name, and serial number. The list also shows the total number of printed impressions, and the breakdown of the sources of the impressions.</p> <p><b>Scan Activity</b>—A table that lists the printers and shows their last known IP address, model name, and serial number. The list also shows the total number of scanned pages.</p>
<b>Organization, Cost Center, Department, User</b>	<p><b>Printer Activity Detail</b>—Shows a detailed Printer Activity report. The list shows all the jobs and more information about each job. When using Direct Print submission, if the printer does not have the correct version of Device Usage eSF application installed, then analytics data is not presented the same way as other user-related print data. In this case, the data differs in the following ways:</p> <ul style="list-style-type: none"> <li>• The user print job details are displayed in the Printer Activity Detail report.</li> <li>• The IP address column shows <b>&lt;x.y.z.y&gt; (Direct)</b>, where <b>&lt;x.y.z.y&gt;</b> is the IP address of the printer.</li> <li>• Page numbers and other metadata reflected for the print job details represent the user intent of the submission and may not represent the actual print output. For instance, a user may send a four-page color job to a mono printer without the correct version of the eSF application. In this case, the job details show that a four-page color job was printed.</li> </ul>	<p><b>Print Activity</b>—A table that lists all the print jobs, and shows their owner information, time stamp, job type, and printer information. The list also shows the number of printed impressions on each print job with a breakdown of the sources of the impressions.</p> <p><b>Scan Activity</b>—A table that lists all the print jobs, and shows their owner information, time stamp, job type, and printer information. The list also shows the number of scanned pages.</p>



Report Level	Report type	Report items
<b>Organization, Cost Center, Department</b>	<b>User Usage</b> —Shows the print usage of all the users in the organization, department, or cost center.	<ul style="list-style-type: none"> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black and white impressions that are printed.</li> <li>• <b>Print Activity</b>—A table that lists all the users in the organization, department, or cost center, and the number of impressions printed per user.</li> </ul>
<b>Organization</b>	<b>Customer Usage</b> —Shows the print usage of all the child organizations.  <b>Note:</b> This report type is available only to partner administrators.	<ul style="list-style-type: none"> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> <li>• <b>Print Activity</b>—A table that lists all the child organizations, and shows the total number of impressions printed per child organization.</li> </ul>
<b>Organization</b>	<b>Department Usage</b> —Shows the print usage per department.	<ul style="list-style-type: none"> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> <li>• <b>Print Activity</b>—A table that lists all the departments in the organization, and shows the total number of impressions printed per department.</li> </ul>
<b>Organization</b>	<b>Cost Center Usage</b> —Shows the print usage per cost center.	<ul style="list-style-type: none"> <li>• <b>Duplex / Simplex Usage (Impressions)</b>—A graph that shows the total number of impressions printed as two-sided jobs and the total number of impressions printed as one-sided jobs.</li> <li>• <b>Color / Mono Usage (Impressions)</b>—A graph that shows the total number of color impressions and the total number of black-and-white impressions that are printed.</li> <li>• <b>Print Activity</b>—A table that lists all the cost centers in the organization, and shows the total number of impressions printed per cost center.</li> </ul>
<b>Organization</b>	<b>Customer Usage Detail</b> —Shows a detailed Customer Usage report containing the print and scan activities.  <b>Note:</b> This report type is available only to partner administrators.	<b>Print Activity</b> —A table that lists all child organizations, and shows the total number of impressions printed per child organization.  <b>Scan Activity</b> —A table that lists all child organizations, and shows the total number of scanned pages per child organization.



Report Level	Report type	Report items
<b>Organization</b>	<b>Department Usage Detail</b> —Shows a detailed Department Usage report containing the print and scan activities.	<b>Print Activity</b> —A table that lists all the departments in the organization, and shows the total number of impressions printed per department. <b>Scan Activity</b> —A table that lists all the departments in the organization, and shows the total number of scanned pages per department.
<b>Organization</b>	<b>Cost Center Usage Detail</b> —Shows a detailed Cost Center Usage report containing the print and scan activities.	<b>Print Activity</b> —A table that lists all the cost centers in the organization, and shows the total number of impressions printed per cost center. <b>Scan Activity</b> —A table that lists all the cost centers in the organization, and shows the total number of scanned pages per cost center.
<b>Organization</b>	<b>Printer Hardware Detail</b> —Shows the hardware statistics for all the printers in the organization.	A table that lists all the printers in the organization. The list includes the serial numbers, IP addresses, model names, asset tags, and page counts.
<b>Organization</b>	<b>Customer Printer Hardware Detail</b> —Shows the hardware statistics for all the printers in all child organizations.  <b>Note:</b> This report is available only for partner administrators when the partner organization is selected.	A table that lists all the printers in all child organizations. The list includes the organization names, serial numbers, IP addresses, model names, asset tags, and page counts.
<b>Organization</b>	<b>Users</b>	A table that lists all the users of the organization defined in the Account Management web portal that existed during the selected date range of the report. The list includes the membership information for departments and cost centers, including when they were added or removed from departments or cost centers.
<b>Organization, Cost Center, Department, User</b>	<b>Detailed Submitted Job Activity</b> —Shows all the jobs submitted to Lexmark Cloud Services for print release by the selected organization, department, or user.	A table that lists all the documents submitted for print release and the user information for that document.
<b>User</b>	<b>Print Job History</b> —Shows all the print jobs of the selected user.	A table that lists all the print jobs of the selected user. The list also shows the number of pages and impressions of the job, the job properties, and the printer used.

## Generating reports

- 1 From the Analytics web portal, select a report level.

### Notes:

- The Report Level options vary depending on your role.



- A partner administrator and a Fleet Management Reporting Analyst can select from the list of customer organizations, and can generate reports at the organization level.
- An organization administrator and a Print Release Management Reporting Analyst can select a specific user, cost center, or department within the organization. They can also generate their corresponding usage reports. These options are also applicable to the Print Release Management Administrator role.
- A user can generate only their own usage reports.

**2** Do either of the following:

- For the User, Cost Center, Department, or Printer report level, do the following:
  - a Type the user, cost center, department name, or printer serial number.
  - b Select a report type.
  - c Select a date range.
- For the Organization report level, select a report type and date range.

**Note:** To show users that were removed from the organization, cost center, or department, select **Show Deleted Users**.


**3** Click **Generate Report**.

**Note:** You can also generate reports using the report cards from the dashboard.


## Exporting reports

**1** Do either of the following:

- From the Analytics web portal, generate a report.
- From the dashboard, click a card.

**2** Click  on the upper-right corner of the table that you want to export.

**Notes:**

- The report is saved in a CSV file.
- To print the reports with a formatted layout, click .

## Understanding the Print Outliers report

**1** From the Analytics web portal, click **Check out the new Beta Analytics 2.0 here**.

**2** Accept the acknowledgement terms.

**Note:** You have to accept the acknowledgement terms only when you are accessing Analytics 2.0 for the first time.

**3** Select the organization, and then click **Next**.

**Notes:**

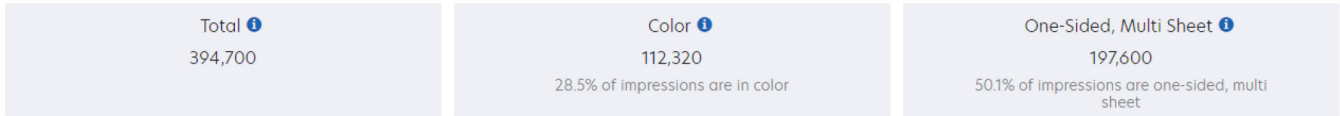
- You must have the Print Management administrator role to access the Print Outlier report. If you are in a partner set-up, then you can select a child organization.
- You can set the time period for which you need the report.



- By default, the outlier report shows top 30 departments or users in the relevant report. You can disable the **Show Only Top 30** option to view all the departments or users in the reports.
- In the Print Summary report, if there are users not associated with any departments, then they are grouped under alias. The group is termed as No department associated.

4 From the report menu, select **Print Outliers (beta)**.

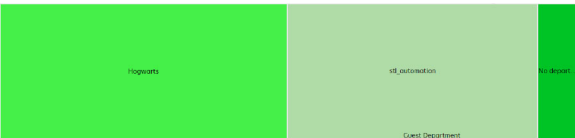
Key performance indicators report



The key performance indicators for print usage include the following:

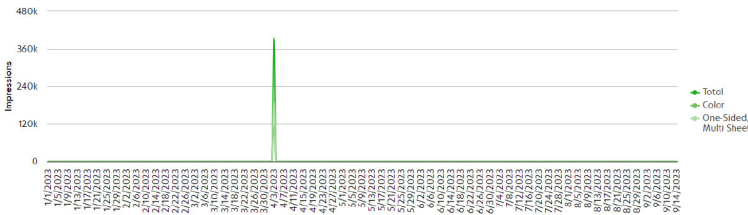
- **Total**—Shows the total number of print impressions.
- **Color**—Shows the total number of color print impressions.
- **One Sided, Multi Sheet**—Shows the total number of one-sided print impressions on two or more sheets. This data does not include single-page print impressions.

Tree map report



The tree map shows the distribution of print impressions across departments under a particular organization or child organization. On clicking each of the departments in the tree map report, you can get the outlier details of that particular department. In the department outlier, on clicking each of the users, you can get the outlier details of a particular user.

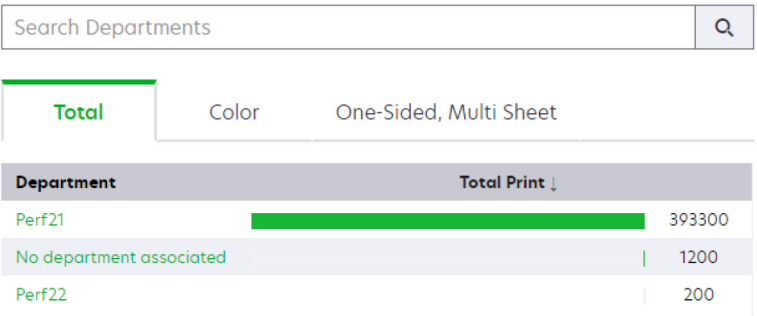
Print history



The graph shows the trend in total, colored, and one-sided multi-sheet print impressions across the organization.



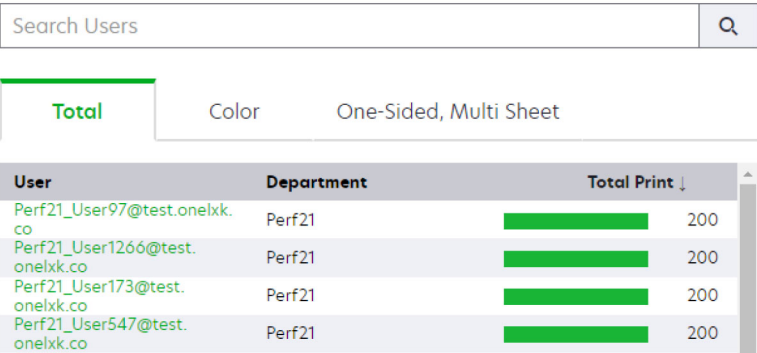
Top departments in an organization



The section shows the list of departments and their corresponding print impressions. You can use the Total, Color, and One Sided, Multi Sheet tabs to view the respective print impressions in each category.

**Note:** You can search for a particular department by typing the name of the department in the Search Departments text field.

Top users in an organization



The section shows the list of users and their corresponding print impressions. You can use the Total, Color, and One Sided, Multi Sheet tabs to view the respective print impressions in each category.

Notes:

- You can search for a particular user by typing the name of the user in the Search Users text field.
- You can view the top users in an organization and a department.
- You can view each department in the list to view department level data. For instance, once you navigate to the department summary page, you can see the top users in that particular department.
- You can click each username to view the user summary page. You can navigate back to the organization-level data from the menu itself.



## Understanding the Print Summary report

If you are entitled to Cloud Print Management, then you can access the Print Summary report.

**Note:** The Print Summary report is updated every 24 hours and reflects all print activity up to that time.

- 1 From the Analytics web portal, click **Check out the new Beta Analytics 2.0 here**.
- 2 If you are accessing Analytics 2.0 for the first time, then accept the terms of use.
- 3 Select the organization, and then click **Next**.

**Notes:**

- You must have the Print Management administrator role to access the Print Summary report. If you are in a partner setup, then you can select a child organization.
- You can set the period for which you need the report.

- 4 From the report menu, select **Print Summary (beta)**.

## Insights

In the insights section, you can view the key highlights on print usage of an organization or a department. It not only highlights key printing patterns but also suggests a probable solution to increase efficiency.

**Note:** In the Print Summary report, if there are users not associated with any departments, then they are grouped under alias. The group is termed as No department associated.

## Using the filters for key performance indicators

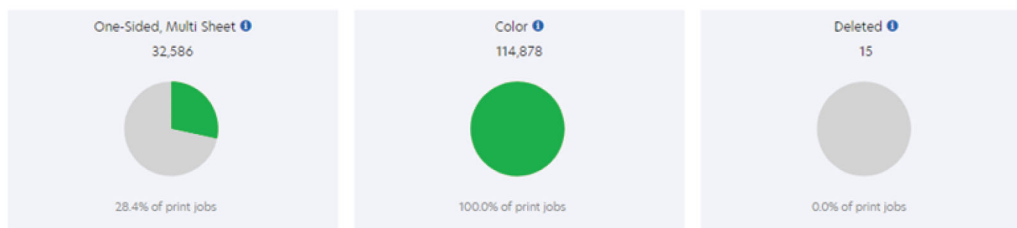
Impressions	8,874,182	Sheets	4,465,055	Printed Jobs	114,878
Side of a sheet of paper that contains toner		Physical piece of paper that may contain one or two impressions		File or set of files submitted for printing	

The key performance indicators for print usage can be filtered based on the following:

- **Impressions**—Shows the total number of impressions. Filters the print usage report based on the side of a sheet of paper that contains toner.
- **Sheets**—Shows the total number of sheets used. Filters the print usage report based on a physical piece of paper that contains one or two impressions.
- **Printed Jobs**—Shows the total number of print jobs. Filters the print usage report based on the file or set of files submitted for printing.



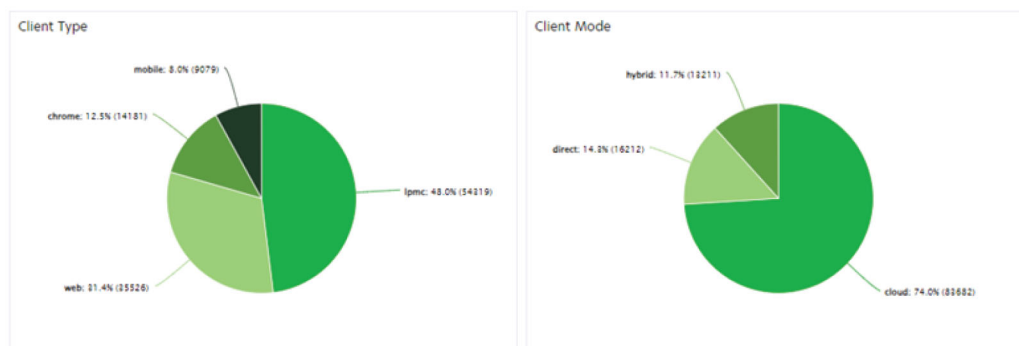
## Key performance indicators report



The key performance indicators for print usage include the following:

- One Sided, Multi Sheet**—Shows impressions, sheets, or printed jobs in one-sided printed jobs of two or more sheets.
  - For Impressions, the indicator shows the total number of one-sided print impressions on two or more sheets out of the total number of impressions. The one-sided print impressions data does not include single-page print jobs.
  - For Sheets, the indicator shows the total number of sheets used for simplex printing against the total number of sheets used for printing. The data related to sheets used for simplex printing does not include single-page print jobs.
  - For Printed Jobs, the indicator shows the total number of simplex print jobs against duplex print jobs.
- Color**—Shows impressions or printed jobs in color.
  - For Impressions, the indicator shows the total number of colored and mono impressions.
  - For Sheets, color sheets are not reported.
  - For Printed Jobs, the indicator shows total number of color print jobs against mono print jobs.
- Deleted**—Shows sheets or printed jobs that are deleted.
  - For Impressions, deleted impressions are not reported.
  - For Sheets, the indicator shows total number of deleted sheets against the total number of sheets used for printing.
  - For Printed Jobs, the indicator shows total number of deleted print jobs against the total number of print jobs. Here, print jobs are the ones that are submitted for print release. All print jobs may not be actually printed as some of them may be deleted before print release. Printed jobs are ones that were actually printed.

## Client type and client mode





The Client Type chart shows the share for each type of Cloud Print Management submission types. For more information on various types of Cloud Print Management submission, see [“Managing print queues” on page 363](#).

The Client Mode chart shows the share for each type of submitting and releasing print jobs. For more information on various types of submitting and releasing print jobs, see [“Cloud Print Management overview” on page 189](#).

#### Notes:

- The Client Type and Client Mode charts can be filtered based on Impressions, Sheets, and Printed Jobs.
- If any of the charts shows a certain share for Unspecified, then it signifies unavailability of data from the Cloud Print Management server.

## Details about print jobs

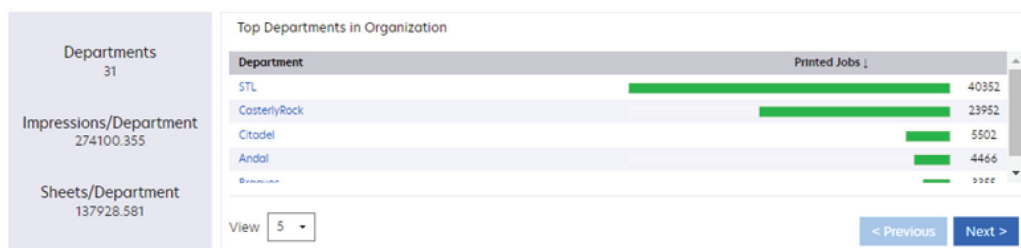
The key performance indicators for print jobs can be viewed from the following:

- **Printed Jobs**—Shows the total number of printed jobs in an organization.
- **Impressions/Printed Jobs**—Shows the average number of impressions per print job in an organization.
- **Sheets/Printed Job**—Shows the average number of sheets used per print job in an organization.
- **Largest Printed Jobs in Organization**—Shows a list of users with the largest print jobs in terms of impressions or sheets. This data is available only if you select either the Impressions or the Sheets filter.

## Details about printed job size and paper size

- **Printed Job Size**—Shows the percentage of print jobs within a certain range of impression count.
- **Paper Size**—Shows the percentage of print jobs using various paper sizes.

## Top departments in an organization

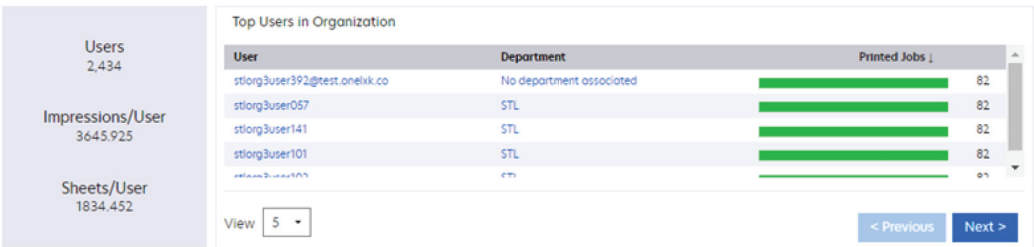


The section shows the list of departments and their corresponding data. The data depends on the filter you have selected. It can be Impressions, Sheets, or Printed Jobs.

**Note:** You can click each department name to view the department summary page. You can navigate back to the organization-level data from the menu itself.



Top users in an organization



The section shows the list of users and their corresponding data. The data depends on the filter you have selected. It can be Impressions, Sheets, or Printed Jobs.

Notes:

- You can view the top users in an organization and a department.
- You can view each department in the list to view department level data. For instance, once you navigate to the department summary page, you can see the top users in that particular department.
- You can click each username to view the user summary page. You can navigate back to the organization-level data from the menu itself.



# Translation Assistant

## Understanding Translation Assistant

Translation Assistant is a subscription service offered by Lexmark Cloud Services. This solution allows you to upload a file in a source language and translate it to a target language. You can then download or email the translated file. For Customer Identity and Access Management (CIAM) organizations, subscribe to Cloud Print Management to send the translated file to your cloud print queue.

**Note:** Lexmark also offers the Translation Assistant eSF application. This application lets you scan a document in a source language and translate it to a target language. You can then print or email the translated document. For more information, see the *Translation Assistant Administrator's Guide*.

## Supported source file formats

- PDF
- CSV
- HTML, HTM
- XLF
- MARKDOWN, MDOWN, MKDN, MD, MKD, MDWN, MDTXT, MDTEXT, RMD
- XLSX, XLS
- PPTX, PPT
- DOCX, DOC
- ODT
- ODP
- ODS
- RTF
- TSV, TAB
- TXT

### Notes:

- Some file formats may be converted during translation.
- The maximum source file size is 40MB.
- Translation Assistant supports adding a footer text to all pages of the translated files. If this feature is enabled, then the Translation Assistant supports only DOCX files.
- If the source language is French Canadian, then DOCX files are not supported as an output file format.

## Supported source and target languages

Afrikaans	Fijian	Kannada*	Pashto*	Sesotho
Albanian	Filipino	Kazakh	Persian*	Sesotho sa Leboa
Amharic*	Finnish	Kinyarwanda	Polish	Lower Sorbian
Arabic*	French	Khmer*	Brazilian Portuguese	Latin Swahili
Armenian*	Canadian French	Korean	Portuguese	Swedish



Assamese*	Galician	Konkani	Punjabi*	Tahitian
Latin Azerbaijani	Georgian*	Central Kurdish*	Queretaro Otomi	Tamil*
Basque	German	Northern Kurdish	Romanian	Latin Tatar
Bangla*	Greek	Cyrillic Kyrgyz	Russian	Telugu*
Bashkir	Gujarati*	Lao*	Latin Samoan	Thai*
Latin Bosnian	Haitian Creole	Latvian	Cyrillic Serbian	Tibetan*
Bulgarian	Hausa	Lithuanian	Latin Serbian	Tigrinya*
Traditional Cantonese	Hebrew*	Macedonian	Slovak	Tongan
Catalan	Hindi*	Malagasy	Slovenian	Turkish
Literary Chinese	Latin Hmong Daw	Latin Malay	Arabic Somali	Latin Turkmen
Simplified Chinese	Hungarian	Malayalam*	Spanish	Ukrainian
Traditional Chinese	Icelandic	Maltese	Rundi	Upper Sorbian
ChiShona	Indonesian	Maithili	Russian	Urdu*
Croatian	Inuinnaqtun	Maori	Cyrillic Serbian	Arabic Uyghur*
Czech	Igbo	Marathi*	Latin Serbian	Latin Uzbek
Danish	Inuktitut	Cyrillic Mongolian	Sindhi	Vietnamese
Dari*	Latin Inuktitut	Traditional Mongolian*	Sinhala	Welsh
Divehi*	Lingala	Myanmar*	Slovak	Xhosa
Dutch	Luganda	Nepali*	Slovenian	Yoruba
English	Irish	Norwegian	Arabic Somali	Yucatec Maya
Estonian	Italian	Nyanja	Spanish	Zulu
Faroese	Japanese	Odia*	Setswana	

\*Printing DOCX files is not supported in these languages.

## Supported auto-detect source languages

Translation Assistant can automatically detect the following languages on uploaded source documents:

Afrikaans	Divehi	Hebrew	Central Kurdish	Persian	Latin Swahili
Albanian	Dutch	Hindi	Lao	Polish	Swedish
Arabic	English	Hungarian	Latvian	Brazilian Portuguese	Tahitian
Armenian	Estonian	Icelandic	Lithuanian	Romanian	Thai
Bulgarian	Finnish	Indonesian	Macedonian	Russian	Turkish
Catalan	French	Inuktitut	Latin Malay	Cyrillic Serbian	Ukrainian
Simplified Chinese	Georgian	Irish	Maltese	Latin Serbian	Urdu
Traditional Chinese	German	Italian	Traditional Mongolian	Slovak	Latin Uzbek



Croatian	Greek	Japanese	Myanmar	Slovenian	Vietnamese
Czech	Gujarati	Khmer	Norwegian	Arabic Somali	Welsh
Danish	Haitian Creole	Korean	Pashto	Spanish	Yucatec Maya


## Using Translation Assistant

**Note:** You must have the Translation Assistant User role in an organization that is subscribed to Translation Assistant.

- 1 Open a web browser, access the Lexmark Cloud Services dashboard, and then do either of the following:

- From the Lexmark Cloud Services dashboard, click the **Translation Assistant** card.

**Note:** The Translation Assistant card appears in the dashboard by default for new users. If the card is not available in the dashboard, then add the card. For more information, see [“Managing the dashboard” on page 23](#).

- From your current web portal, click  on the upper-right corner of the page, and then click **Translation Assistant**.

- 2 Accept the terms of use.

**Note:** You must accept the terms of use every time you access the Translation Assistant.

- 3 Upload a source document.

**Note:** For more information, see [“Supported source file formats” on page 414](#).

- 4 Select the source language of the source document.

**Note:** Translation Assistant detects the source language automatically by default. For more information, see [“Supported auto-detect source languages” on page 415](#).

- 5 Select a target language.

**Note:** You can select up to five target languages.

- 6 Select how you want to receive your document.

- To save the document to your local folder, click **Download**.
- To send the document to your registered Lexmark Cloud Services email address, click **Email**.

**Note:** Some email services limit the file attachment size. If the file size of the document exceeds 10MB, then we recommend downloading it.

- For CIAM organization, to send the document to your Lexmark Cloud Services Print Management queue, click **Send to cloud print queue**.

**Note:** You must be subscribed to Cloud Print Management to enable this option.


- 7 Click **Translate File**, and then wait for the translation to complete.

**Note:** For **Send to cloud print queue**, if the output is set to DOCX, some languages may print with garbage characters due to font limitations of the languages.



## Appending a footer text to each translated page

**Note:** Only users with the Translation Assistant Administrator role can enable this feature. If this feature is enabled, then it applies to all Translation Assistant users in the organization. The footer only applies to the Translation Assistant web portal. It is not applicable to eSF application.

- 1 From the Translation Assistant web page, click  on the upper-right corner of the page.
- 2 Select **Append footer text to each page of translated file**.  
**Note:** This option supports only DOCX files.
- 3 Type the footer text.
- 4 To translate the footer along with the document, select **Translate the footer text**.
- 5 Click **Save Settings**.

## Translation Quota

You must have available translation quota to use Translation Assistant. Contact your administrator if you have exceeded your translation quota.

## Managing the distribution of translation quotas in child organizations

Partner users that possess the Solutions Quota Administrator role in the Child Organization Access group can manage the distribution of translation quotas in child organizations.

**Note:** You cannot distribute more pages than you have purchased.

### Distributing translation quotas to child organizations

- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Click the **Solution Quota Manager** card.
- 3 From the Distributions tab, click **Distribute Pages**.
- 4 Type the name of the child organization, and then specify their translation quota.
- 5 If necessary, select the **Send notification when distribution is nearly empty** check box.
- 6 Click **Distribute Pages**.

### Updating existing quota distributions

If a child organization runs out of their translation quota, partner organizations can edit the existing distribution of the child organization.

- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Click the **Solution Quota Manager** card.
- 3 From the Distributions page, click the name of the child organization in the Distribution column.
- 4 Click **Edit**, and then update the number of translation pages.
- 5 Click **Save Changes**.




**Notes:**

- For more information on using the My Translation Quota Remaining card, see [“Using the My Translation Quota Remaining card” on page 430](#).
- For more information on using the Translation Pages Remaining card, see [“Using the Translation Pages Remaining card” on page 430](#).
- For more information on using the Translation Distribution Status card, see [“Using the Translation Distribution Status card” on page 430](#).

## Using Solution Quota Manager to set translation quotas

If you are a Solutions Quota Administrator, then you can set the default translation quota for users. You can also set custom quotas for users and cost centers or departments. By default, all Translation Assistant users share the entire quota.

**Note:** Quota decrements may vary depending on the number of characters in a page. The system counts the number of characters, not the pages.

- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Do either of the following:
  - Click the **Solution Quota Manager** card.
  - Click , and then click **Solution Quota Manager**.
- 3 From the Quotas page, do any of the following:

### Set the default translation quota for users

- a Click **Edit** beside Default Quota.
- b From the Edit Default User Quota window, set the default translation quota for users, and then click **Save Changes**.

### Set a custom translation quota for a user

The default quota applies to all Translation Assistant users in the organization, unless a custom quota is assigned to the department, cost center, or individual user. The user's custom quota overrides the default quota of the organization, cost center, or department.

- a From the Custom Quotas tab, click **Create**.
- b From the Type list, select **Personal**.
- c Type the user's email address, and then set their translation quota.

**Note:** Users must be registered in the organization before you can assign a custom quota to them.

- d Click **Create Quota**.

**Note:** You can click the Usage tab on the Quotas page to check the custom or default quota usage of the user. You can also use the Percent Remaining option to filter users and how much quota they still possess.

### Set a custom translation quota for a cost center or department

The default quota applies to all users in the organization, unless a custom quota is assigned to the department, cost center, or individual user. The custom quota overrides the default quota.



**Note:** Custom quotas can be set only for either a cost center or a department, but not both. After setting the first custom quota for a cost center or department, you can no longer set the custom quota for the other option.

- a** From the Custom Quotas tab, click **Create**.
- b** From the Type list, select **Cost center** or **Department**.
- c** Type the name of the cost center or department, and then set its translation quota.
- d** Click **Create Quota**.

**Notes:**

- You can edit existing custom quotas. To do so, click the name of the cost center or department from the Custom Quotas tab, set the translation quota, and then click **Save Changes**.
- You can click the Usage tab on the Quotas page to check the custom or default quota usage of the users. You can also use the Percent Remaining option to filter users and how much quota they still possess.

## Updating the child organization account

As a partner administrator, you can edit the translation quota of a child organization. You can also revoke or suspend their quota distribution.

- 1** Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2** Click the **Solution Quota Manager** card.
- 3** From the Distributions tab, click the name of the child organization in the Distribution column.
- 4** Click any of the following:
  - **Edit**—Edit the translation quota of the child organization.
  - **Suspend**—Pause the translation activities of an organization temporarily.
  - **Resume**—Resume the translation activities for a suspended organization.
  - **Revoke**—Cancel any available translation pages of an organization. Click **Continue**, type the name of the organization to confirm revocation, and then click **Revoke**.

**Note:** The translation quota or unused pages of the child organization are returned to the partner organization.



# Mobile Enhanced Solutions

## Understanding Mobile Enhanced Solutions

Mobile Enhanced Solutions is a cloud-based solution offered by Lexmark Cloud Services. It allows you to connect to your printers and perform cloud-based tasks from your mobile device. If this solution is available on your multi-function printer, you will see a QR code on the control panel. On scanning this QR code, the Lexmark Cloud Solutions authentication page opens. Once authenticated, you can access the Mobile Enhanced Solutions on your mobile device's web browser.

**Note:** Mobile Enhanced Solutions is available only in printers with 2.8-inch touch-screen displays.

## Enabling Mobile Enhanced Solutions in the printer

Before you begin, make sure that your printer is running on firmware version 8.1, enrolled in Lexmark Cloud Services, and managed by the Native Agent.

- 1 Open a web browser, and then type the printer IP address in the address field.
- 2 From the Embedded Web Server, click **Cloud Services**.
- 3 Click **Mobile Enhanced Solutions > Enable**.

**Note:** This setting appears only if the printer is successfully enrolled and communicating with Lexmark Cloud Services.

- 4 Click **Save**.

## Accessing Mobile Enhanced Solutions

- 1 Do either of the following:
  - From the printer screen, scan the QR code using your mobile device.
  - From the printer home screen, touch the **Notification Center**, then touch **Access Mobile Enhanced Solutions**, and then scan the QR code using your mobile device.

**Note:** Depending on your mobile device, a QR code scanner application may be required.

- 2 Log in using your Lexmark Cloud Services e-mail address and password.

**Note:** Only one user can use Mobile Enhanced Solutions on a printer at a time.

## Using My jobs

If you are a Cloud Print Management user, then My Jobs solution is available to you. My Jobs allow you to release print jobs from your Cloud Print Management print queue.

**Note:** Before you begin, make sure that you have sent print jobs to your Lexmark Cloud Services print release queue. For more information, see the [“Sending print jobs to Lexmark Cloud Services” on page 371](#).



## Releasing print jobs

- 1 From the application home screen, select the jobs that you want to print.
- 2 Tap **Print Selected**, and then wait for the print job to complete.


**Notes:**

- To print all jobs, tap **Print All**.
- After the jobs are completed, the print jobs are automatically removed from the print queue.


## Managing print jobs

- 1 From the application home screen, select the job that you want to manage.

**Note:** You can manage only one print job at a time.


- 2 Tap .
- 3 If necessary, change the print settings.
- 4 Tap **Save**.

## Deleting print jobs

- 1 From the application home screen, select the jobs that you want to delete.
- 2 Tap .
- 3 From the Delete Selected Jobs window, tap **Yes**.

**Note:** After you are done releasing print jobs, you are encouraged to end your session. On ending your session, Mobile Enhanced Solutions get freed up for the next user.

## Logging out of Mobile Enhanced Solutions

- 1 From the upper-left corner of the screen, touch .
- 2 Touch **Log Out**.




# Announcement Center

## Understanding the Announcement Center

The Announcement Center lets you view announcements about Lexmark Cloud Services features and other updates based on your user role. For Announcement Center, there are no settings available for administrators.

## Viewing an announcement

You can view only the announcements that are applicable to your user role, and you cannot delete the announcements. If the announcement is not available in the language of your web browser, then you will see the announcement in English.

- 1 From your current web portal, click .


**Note:** The notification icon shows a badge indicating the number of unread announcements.

- 2 Click the announcement that you want to view.

**Note:** To view all announcements, click **View All**. Viewing all announcements lets you filter the read, unread, and high-priority announcements.

- 3 Click **Close**.

### Notes:

- The most recent announcements appear first. Expired announcements no longer appear.
- High-priority announcements are indicated with .



# Redaction Assistant Portal

## Understanding the Redaction Assistant


The Redaction Assistant is a subscription service offered by Lexmark Cloud Services. This solution uses Microsoft Azure Cognitive Services in the redaction process. When using this solution from the Lexmark Cloud Services portal, you can send the redacted file to your e-mail address or download it to your computer. If an organization is enrolled in Cloud Print Management and the user has print management user role, you can also send the redacted file to cloud print queue.

## Accessing the Redaction Assistant

Open a web browser, access the Lexmark Cloud Services dashboard, and then do either of the following:

- From the dashboard, click the **Redaction Assistant** card.

### Notes:

- If the card is not available in the dashboard, then add the card. For more information, see [“Managing the dashboard” on page 23](#).
- On the Lexmark Cloud Services portal, you can access Redaction Assistant by clicking  on the upper-right corner of the page.

**Note:** To use the Redaction Assistant, users must be in an organization entitled for Redaction Assistant and have Redaction Assistant user role.

## Using the Redaction Assistant



- 1 On the Redaction Assistant web portal, accept the terms of use.
- 2 From the Choose a file from which to redact PII section, select the file from which you want to redact.

**Note:** The file must be in DOCX format.

- 3 From the Select the information you want to redact from the file menu, configure the following:

- Select **Personally Identifiable Information (PII)** to redact personally identifiable information from the available PII.

**Note:** For more on available PII, see [Available country-based PII](#).

- Select the available PII from the General category or select from the country-based available PII.
- To move a selected PII from Available PII to Selected PII, click .
- To move back a selected PII from Selected PII to Available PII, click .
- You can also drag and drop or double-click PII to move from Available PII list to Selected PII list and conversely. The selected PII are the ones that get redacted.
- Select **Custom text**, only if you want to redact specific texts from the file.
  - In the Specify custom text to redact field, type the text to be redacted.
  - From the menu, select either **Whole word only** or **Contains**.



**Notes:**

- On selecting Whole word only, only words that match the word you have entered in the Specify custom text to redact field get redacted.
- On selecting Contains, texts that contain the words you have entered in the Specify custom text to redact field get redacted.
- While redacting a file, you can select both Whole word only and Contains.

**4 Click Add Text.****5** From the Select how you want to receive your redacted file menu, select either of the following:

- **Download**—Download the file to your computer.  
**Email**—Send the file to your email address.
- **Send to cloud print queue**—Send the file to your cloud print queue.

**6 Click Redact File.****Available country-based PII****• General**

- Person
- Phone Number
- Organization
- Address
- Email
- URL
- IP
- Date
- Age
- ABA routing number
- SWIFT code
- Credit card
- International Banking Account Number (IBAN)

**• Argentina**

- Argentina National Identity (DNI) Number

**• Austria**

- Austria identity card
- Austria tax identification Number
- Austria Value Added Tax (VAT) Number

**• Australia**

- Australia bank account Number
- Australian business Number
- Australia Company Number
- Australia driver's license
- Australia medical account Number



- Australia passport Number
- Australia tax file Number
- **Belgium**
  - Belgium national Number
  - Belgium Value Added Tax(VAT) Number
- **Brazil**
  - Brazil legal entity Number(CNPJ)
  - Brazil CPF Number
  - Brazil National ID card (RG)
- **Canada**
  - Canada bank account Number
  - Canada driver's license Number
  - Canada health service Number
  - Canada passport Number
  - Canada social insurance Number
- **Chile**
  - Chile identity card Number
- **China**
  - China Resident Identity Card (PRC) Number
- **European Union (EU)**
  - EU debit card Number
  - EU driver's license Number
  - EU GPU coordinates
  - EU national identification Number
  - EU passport number
  - EU Social Security Number (SSN) or equivalent ID
  - EU Tax Identification Number (TIN)
- **France**
  - France driver's license Number
  - France health insurance Number
  - France national ID card (CNI)
  - France passport Number
  - France Social Security Number (INSEE)
  - France tax identification Number (NumeroSPI)
  - France Value Added Tax (VAT) Number
- **Germany**
  - German Driver's License Number
  - Germany Identity Card Number
  - Germany passport number
  - Germany Tax Identification Number
  - Germany Value Added Tax Number



- **Hong Kong**
  - Hong Kong Identity Card (HKID) Number
- **Hungary**
  - Hungary Personal Identification Number
  - Hungary Tax Identification Number
  - Hungary Value Added Tax Number
- **India**
  - India Permanent Account Number (PAN)
  - India Unique Identification (Aadhaar) Number
- **Indonesia**
  - Indonesia Identity Card (KTP) Number
- **Ireland**
  - Ireland Personal Public Service (PPS) Number
  - Ireland Personal Public Service (PPS) Number v2
- **Israel**
  - Israel National ID
  - Israel Bank Account Number
- **Italy**
  - Italy Driver's License ID
  - Italy Fiscal Code Italy
  - Value Added Tax Number
- **Japan**
  - Japan Bank Account Number
  - Japan Driver's License Number
  - Japan "My Number" (personal)
  - Japan "My Number" (corporate)
  - Japan Resident Registration Number
  - Japan Residence Card Number
  - Japan Social Insurance Number (SIN)
  - Japan Passport Number
- **Luxembourg**
  - Luxembourg National Identification Number (Natural persons)
  - Luxembourg National Identification Number (Non-natural persons)
- **Malta**
  - Malta Identity Card Number
  - Malta Tax Identification Number
- **New Zealand**
  - New Zealand Bank Account Number
  - New Zealand Driver's License Number
  - New Zealand Inland Revenue Number



- New Zealand Ministry of Health Number
- New Zealand Social Welfare Number
- **Philippines**
  - Philippines Unified Multi-Purpose ID Number)
- **Portugal**
  - Portugal Citizen Card Number
  - Portugal Tax Identification Number
- **Singapore**
  - Singapore National Registration ID card (NRIC) Number
- **South Africa**
  - South Africa Identification Number
- **South Korea**
  - South Korea Resident Registration Number
- **Spain**
  - Spain DNI
  - Spain Social Security Number (SSN)
  - Spain Tax Identification Number
- **Switzerland**
  - Swiss Social Security Number AHV
- **Taiwan**
  - Taiwan National ID
  - Taiwan Resident Certificate (ARC/TARC)
  - Taiwan Passport Number
- **United Kingdom**
  - U.K. Driver's License Number
  - U.K. Electoral Roll Number
  - U.K. National Health Service (NHS) Number
  - U.K. National Insurance Number (NINO)
  - U.K. or U.S. Passport Number
  - U.K. Unique Taxpayer Reference Number
- **United States**
  - U.S. Social Security Number (SSN)
  - U.S. Driver's License Number
  - U.S. or U.K. Passport Number
  - U.S. Individual Taxpayer Identification Number (ITIN)
  - U.S. Drug Enforcement Agency (DEA) Number
  - U.S. Bank Account Number



# Solution Quota Manager

## Understanding the Solution Quota Manager

Solution Quota Manager is used to distribute pages and set quotas for organizations and users.

## Solution Quota

### Managing the distribution of quotas in child organizations

Partner users who have the Solutions Quota Administrator role in the Child Organization Access group can manage the distribution of quotas in child organizations.

**Note:** You cannot distribute more pages than you have purchased.

#### Distributing quotas to child organizations

- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Click the **Solution Quota Manager** card.
- 3 From the Distributions tab, click **Create Distribution**.
- 4 Type the name of the child organization, and then specify the number of pages for each solution.

**Notes:**

- Specification of the child organization is required for Partner Administrator trying to create distributions for child organizations. For a Quota administrator of an organization which has no child organizations, specification of child organization is not required.
- You can specify the number of pages to be distributed for translation.

- 5 If necessary, select **Send notification when distribution is nearly depleted**.
- 6 Click **Create Distribution**.

#### Updating existing quota distributions

If a child organization runs out of their quota, then partner organizations can edit the existing distribution of the child organization.


- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Click the **Solution Quota Manager** card.
- 3 From the Distributions page, click the name of the child organization in the Distribution column.
- 4 Click **Edit**, and then update the number of pages for the existing solutions.
- 5 Click **Save Changes**.



## Using Solution Quota Manager to set quotas

If you are a Solutions Quota Administrator, then you can set the default quota for users. You can also set custom quotas for users and cost centers or departments.

**Note:** Quota decrements vary depending on the number of characters in a page. The system counts the number of characters, not the pages.

- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Do either of the following:
  - Click the **Solution Quota Manager** card.
  - Click , and then click **Solution Quota Manager**.
- 3 From the Quotas page, do any of the following:

### Set the default quota for users

- a Click **Edit** beside Default Quota.
- b From the Edit Default User Quota window, set the default quota for users, and then click **Save Changes**.

### Set a custom quota for a user

The default quota applies to all users in the organization, unless a custom quota is assigned to the department, cost center, or individual user. The user's custom quota overrides the default quota of the organization, cost center, or department.

- a From the Custom Quotas tab, click **Create**.
- b From the Type menu, select **Personal**.
- c Type the user's email address, and then set the quota for the available solutions.

#### Notes:

- The solutions may include Translation.
- Users must be registered in the organization before you can assign a custom quota to them.

- d Click **Create Quota**.

**Note:** To check the custom or default quota usage of the users, from the Quotas page, click the Usage tab. You can filter the user list for personal and default.

### Set a custom quota for a cost center or department

The default quota applies to all users in the organization, unless a custom quota is assigned to the department, cost center, or individual user. The custom quota overrides the default quota.

**Note:** Custom quotas can be set only for either a cost center or a department, but not both. After setting the first custom quota for a cost center or department, you can no longer set the custom quota for the other option.

- a From the Custom Quotas tab, click **Create**.
- b From the Type menu, select **Cost center** or **Department**.
- c Type the name of the cost center or department, and then set the quota for reach of the available solutions.
- d Click **Create Quota**.



**Notes:**

- To edit custom quotas, from the Custom Quotas tab, click the name of the cost center or department, set the quota, and then click **Save Changes**.
- To check the custom or default quota usage of the users, from the Quotas page, click the Usage tab.

## Updating the child organization account

As a partner administrator, you can edit the quota of a child organization. You can also revoke, resume, or suspend their quota distribution.

- 1 Open a web browser, and then access the Lexmark Cloud Services dashboard.
- 2 Click the **Solution Quota Manager** card.
- 3 From the Distributions tab, click the name of the child organization in the Distribution column.
- 4 Click any of the following:
  - **Edit**—Edit the distribution quota of the child organization.
  - **Suspend**—Pause the translation activities of an organization temporarily.
  - **Resume**—Resume the translation activities for a suspended organization.
  - **Revoke**—Cancel any available translation pages of an organization. Click **Continue**, type the name of the organization to confirm revocation, and then click **Revoke**.

**Note:** The distribution quota or unused pages of the child organization are returned to the partner organization.

## Using the My Translation Quota Remaining card

- The My Translation Quota Remaining card shows you the number of Translation Assistant pages remaining for your usage.
- This quota may be shared with other users in the organization.

**Note:** Click this card to access the Translation Assistant Portal. For more information on adding/editing cards, see the **Managing cards** section in [“Managing the dashboard” on page 23](#).

## Using the Translation Pages Remaining card

- Only users with the Solutions Quota Administrator role can access this card.
- This card shows the status of the remaining Translation Assistant quota for the organization.
- This card also shows if any users have less than 20% of their quota remaining.

**Note:** For more information on adding/editing cards, see the **Managing cards** section in [“Managing the dashboard” on page 23](#).

## Using the Translation Distribution Status card

- Only users with the Solutions Quota Administrator role in the child organization can access this card.
- This card shows the distributed amount of purchased quota.
- This card also shows if any distribution has less than 20% of the quota remaining.



**Note:** For more information on adding/editing cards, see the **Managing cards** section in [“Managing the dashboard” on page 23](#).



# Troubleshooting

## Account Management troubleshooting

### Cannot access the Account Management web portal

Try one or more of the following:

**Make sure that the user roles are assigned appropriately**

For more information, contact your organization administrator.

**Contact the Lexmark Customer Support Center**

### User is prompted to re-register badge

Try one or more of the following:

**Make sure that the badge ID in the Account Management web portal is typed correctly**

For more information, see [“Managing badges” on page 286](#).

**Make sure that the e-mail address is typed correctly**

The e-mail address is case sensitive.

**Make sure that the card reader is configured to read the characters correctly**

The card reader must be able to read hex or decimal values. The card reader installed on the printer may be configured with a start delimiter or end delimiter, or set to remove characters. For more information, see the documentation for your card reader.

**Make sure that new badges are registered**

### Cannot find badge when using the badges search box

**Make sure to type the complete e-mail address or badge ID**



## Fleet Management troubleshooting

### Cannot access the Fleet Management web portal

Try one or more of the following:

**Make sure that the user roles are assigned appropriately**

For more information, contact your organization administrator.

**Contact the Lexmark Customer Support Center**

### Printer is not enrolled

Try one or more of the following:

**Make sure that the printer is in ready state**

For more information, see [“Deployment readiness checklist” on page 27](#).

**Make sure that the authentication type set during enrollment matches the authentication type configured in the printer**

Some printer models may have different authentication credentials configurations. For more information, see [“Updating agent access credentials” on page 326](#).

### Printer enrollment fails

Try one or more of the following:

**Make sure that the Dynamic Host Configuration Protocol (DHCP) setting is enabled and that the auto-configuration of the Domain Name System (DNS) setting is allowed**

From the Embedded Web Server, click **Settings > Network/Ports > Ethernet**, and then, from the IPv4 section, select **Enable DHCP**.

**If you use a static IP address, then make sure that you set the static IP address only after the DNS setting is auto-configured**

**Make sure that the printer date and time settings match those of the network**

**Make sure that correct printer credentials are provided in the Printer Enrollment Tool**

**Make sure that sufficient access controls are enabled**

For printers with eSF version 5.0 or later, the following access controls must be enabled:



Access Controls group	Access Control settings
Administrative Menus	SE Menus
Device Management	Remote Management
Device Management	Firmware Updates
Device Management	App Configurations

For printers with eSF versions 3.0 and 4.0, the following access controls must be enabled:

eSF version	Access Controls group	Access Control settings
eSF version 3.0 and 4.0	Administrative Menus	Service Engineer Menus Remotely
	Device Management	Remote Management
	Device Management	Firmware Updates
eSF version 4.0	Device Management	Configuration File Import / Export

**Note:** For more information on identifying the printer eSF version, see [“Viewing the Embedded Solutions Framework \(eSF\) version” on page 49](#).

**Contact the Lexmark Customer Support Center**

## Printer Agent update fails

### Enroll the printer again

For secure printers, make sure that the correct printer credentials are provided during enrollment. For more information, see [“Enrolling printers using the Printer Enrollment Tool” on page 303](#).

## The printer is not communicating with the agent

Try one or more of the following:

### Make sure that the printer is connected to the network

### Make sure that the printer is not enrolled in another organization

Unenroll the printer from the organization, and then enroll it again in the organization where you want it to be managed.

### Make sure that the Printer Agent is installed and running

Do either of the following:

- If the Printer Agent is not installed, then enroll the printer using the Printer Enrollment Tool.
- If the Printer Agent is stopped or disabled, restart or enable it in the Embedded Web Server.



**Make sure that the printer network settings are updated**

- 1 Access the Embedded Web Server.
- 2 Depending on your printer model, click **Applications** or **Apps**.
- 3 Click **Printer Configuration Agent > Test Agent Connection**.
  - If the Test Agent Configuration button is missing, then enroll the printer again using the Printer Enrollment Tool.
  - If a **Connection Failed!** dialog with printer login error appears, then update the printer login credentials. Click **Update Credentials**, and then provide the printer administrator credentials.
  - If a **Connection Failed!** dialog with Internet connection error appears, then the printer network settings do not match the user network settings.

**If a firewall is in place, then make sure that the Lexmark Cloud Services domains are allowed to use port 443**

The domains depend on the Lexmark Cloud Services data center. To determine the data center for your organization, use the web address of the login screen. For more information, see the [Lexmark Cloud Services New and Changed Functionality](#) document.

**North American Data Center**—The web address of the login screen starts with <https://idp.us.iss.lexmark.com>.

- apis.iss.lexmark.com
- us.iss.lexmark.com
- iss.lexmark.com
- idp.us.iss.lexmark.com
- api.us.iss.lexmark.com
- apis.us.iss.lexmark.com
- lexmarkb2c.b2clogin.com
- b2ccustomizationsprodsa.blob.core.windows.net
- ccs.lexmark.com
- ccs-cdn.lexmark.com
- prod-lex-cloud-iot.azure-devices.net
- global.azure-devices-provisioning.net
- login.microsoftonline.com
- lpm.us.iss.lexmark.com
- prodlexcloudk8s239.blob.core.windows.net
- prodlexcloudk8s19.blob.core.windows.net

**European Data Center**—The web address of the login screen starts with <https://idp.eu.iss.lexmark.com>.

- apis.iss.lexmark.com
- eu.iss.lexmark.com
- iss.lexmark.com
- idp.eu.iss.lexmark.com
- api.eu.iss.lexmark.com
- apis.eu.iss.lexmark.com



- lexmarkb2ceu.b2clogin.com
- lexmarkb2c.b2clogin.com
- b2ccustomizationsprodsa.blob.core.windows.net
- ccs.lexmark.com
- ccs-cdn.lexmark.com
- prod-westeu-lex-cloud-iot.azure-devices.net
- prod-lex-cloud-iot.azure-devices.net
- global.azure-devices-provisioning.net
- login.microsoftonline.com
- lpm.eu.iss.lexmark.com
- prodwesteulexcloudk8s54.blob.core.windows.net
- prodwesteulexcloudk8s199.blob.core.windows.net

#### Make sure that sufficient access controls are enabled

For printers with eSF version 5.0 or later, the Lexmark\_PCA\_User account must have access to the Administrative Menus access control.

For printers with eSF versions 3.0 and 4.0, the Lexmark\_PCA\_User account must have to the following access controls:

eSF version	Access Controls group	Access Control settings
eSF versions 3.0 and 4.0	Administrative Menus	Service Engineer Menus Remotely
	Device Management	Remote Management
	Device Management	Firmware Updates
eSF version 3.0	Device Management	Configuration File Import / Export

**Note:** For more information on identifying the printer eSF version, see [“Viewing the Embedded Solutions Framework \(eSF\) version” on page 49](#).

**Contact the Lexmark Customer Support Center**

## Printer cannot communicate with the Cloud Fleet Management portal after deployment

Try one or more of the following:

**Make sure that the Dynamic Host Configuration Protocol (DHCP) setting is enabled and that auto-configuration of the Domain Name System (DNS) setting is allowed**

From the Embedded Web Server, click **Settings > Network/Ports > Ethernet**, and then, from the IPv4 section, select **Enable DHCP**.



**If you use a static IP address, then make sure that you set the static IP address only after the DNS setting is auto-configured**

**If a firewall is in place, then make sure that the Lexmark Cloud Services domains are allowed to use port 443**

The domains depend on the Lexmark Cloud Services data center. To determine the data center for your organization, use the web address of the login screen. For more information, see the [Lexmark Cloud Services New and Changed Functionality](#) document.

**North American Data Center**—The web address of the login screen starts with <https://idp.us.iss.lexmark.com>.

Function	Used by	URL
CFM	Native Agent only	apis.iss.lexmark.com
CFM	Native Agent only	iss.lexmark.com
CFM	All customers	us.iss.lexmark.com
Identity Provider	All customers	idp.us.iss.lexmark.com
Identity Provider	All customers	login.microsoftonline.com
Identity Provider	All customers	lexmarkb2c.b2clogin.com
Identity Provider	All customers	b2ccustomizationsprodsa.blob.core.windows.net
API	All customers	api.us.iss.lexmark.com
APIS	All customers	apis.us.iss.lexmark.com
CCS	All customers	ccs.lexmark.com
CDN	All customers	ccs-cdn.lexmark.com
CFM	All customers	prod-lex-cloud-iot.azure-devices.net
CFM	Native Agent only	global.azure-devices-provisioning.net
LPM	Legacy CPM only	lpm.us.iss.lexmark.com
CFM File Storage	All customers	prodlexcloudk8s239.blob.core.windows.net
CPM File Storage	CPM only	prodlexcloudk8s19.blob.core.windows.net

**European Data Center**—The web address of the login screen starts with <https://idp.eu.iss.lexmark.com>.

Function	Used by	URL
CFM	Native Agent only	apis.iss.lexmark.com
CFM	Native Agent only	iss.lexmark.com
CFM	All customers	eu.iss.lexmark.com
Identity Provider	All customers	idp.eu.iss.lexmark.com
Identity Provider	All customers	login.microsoftonline.com
Identity Provider	All customers	lexmarkb2ceu.b2clogin.com
Identity Provider	All customers	lexmarkb2c.b2clogin.com



Function	Used by	URL
Identity Provider	All customers	b2ccustomizationsprodsa.blob.core.windows.net
API	All customers	api.eu.iss.lexmark.com
APIS	All customers	apis.eu.iss.lexmark.com
CCS	All customers	ccs.lexmark.com
CDN	All customers	ccs-cdn.lexmark.com
CFM	All customers	prod-westeu-lex-cloud-iot.azure-devices.net
CFM	Native Agent only	prod-lex-cloud-iot.azure-devices.net
CFM	Native Agent only	global.azure-devices-provisioning.net
LPM	Legacy CPM only	lpm.eu.iss.lexmark.com
CFM File Storage	All customers	prodwesteulexcloudk8s54.blob.core.windows.net
CPM File Storage	CPM only	prodwesteulexcloudk8s199.blob.core.windows.net

**Make sure that the printer firmware is updated to support Transport Layer Security (TLS) version 1.2**

**Contact the Lexmark Customer Support Center**

## Fleet Management tasks fail but the printer status is On schedule

**Make sure that the current printer configuration task is completed before sending new tasks**

Importing a configuration bundle to the printer may cause the printer to stop responding.

## Cannot open the Fleet Agent application

Try one or more of the following:

**Make sure that the server or browser allows connection to localhost**

If the Fleet Agent uses a port other than port 80, then the browser must allow connection to **localhost:x**, where **x** is the port number.

**Contact your administrator**

## Some printers are missing during discovery

**Make sure that you can communicate to the printer**

Open a web browser, and then type the printer IP address. If the printer Embedded Web Server appears, then the printer is online.

**Make sure that the SNMP community strings are set correctly**



## The Printer Enrollment Tool freezes

Sometimes, the operating system incorrectly attempts to communicate with the proxy server instead of the localhost, which causes the connection to fail.

Try one or more of the following:

### **Disable the proxy server of your web browser or operating system**

For more information, see the documentation that came with your web browser or operating system.

### **Enable the "Bypass proxy server for local addresses" feature of your web browser or operating system**

For more information, see the documentation that came with your web browser or operating system.

## Cannot update printer credentials

An error occurs when updating the printer credentials using the Printers page.

Try one or more of the following:

### **Unenroll, and then enroll the printer again**

Make sure that the correct printer credentials are provided during enrollment.

### **Make sure that the agent is updated**

From the Fleet Management web portal, do either of the following:

- Click **Agents** > **Fleet Agents** > select a Fleet Agent configuration > **Update** > **Fleet Agent**.
- Click **Agents** > **Printer Agents** > select a printer agent > **Update** > **Update agent version**.

### **Make sure that the Lexmark\_PCA\_User account is added to the Admin group**

For more information, contact your Lexmark representative.

### **Make sure that the permissions and function access controls for the Admin group are configured correctly**

Depending on your printer model, the following permissions and function access controls are required:

- Import / Export All Settings or Configuration File Import / Export
- Apps Configuration
- Security Menu
- SE Menu
- Firmware Updates
- Remote Management

**Note:** For more information, see the *Embedded Web Server Administrator's Guide* for the printer.



## **A blank space appears on the display, and an application ID appears in Customize Home Screen and View Home Screen**

This happens if an eSF application is uninstalled or an eSF application is stopped.

Try one or more of the following:

**Restore the home screen to defaults settings**

**Run the eSF applications**

## **A blank space appears on the display when adding a hidden function in Customize Home Screen**

In older Lexmark models, when you add hidden eSF applications when customizing the home screen, a blank space may appear on the display, with no corresponding application in View Home Screen list.

In newer Lexmark models, when you add hidden eSF applications when customizing home screen, a blank space may appear on the printer display, with **-BLANK SPACE-** as a corresponding item in View Home Screen .

In printer options, when you add hidden functions, a blank space may appear on the printer display. In printers running on eSF version 5 or later, all items can be hidden using the Visible Home Screen icon. In printers running on eSF version 4 or earlier, all items can be hidden using Home Screen Customization settings.

Try one or more of the following:

**Restore the home screen to defaults, and do not include the hidden item**

**Remove -BLANK SPACE- in the home screen, and apply new layout**

## **Non-Cloud Authentication eSF application does not work if Cloud Authentication is installed with Idle Screen enabled (using Translation Assistant or Cloud Scan Management)**

**Make sure that a third party authentication is installed and Pluggable Authentication Module is not selected.**

**If Idle Screen is disabled, then redeploy Translation Assistant or Cloud Scan Management with the pluggable authentication module disabled**

**Reboot your printer**

**Note:** For more information on limitations, see *Cloud Authentication ReadMe*.



## Print Management troubleshooting

### Cannot install the Lexmark Print Management Client

Try one or more of the following:

**Uninstall the previous versions of the Lexmark Universal Print Driver**

**Contact your administrator**

### Cannot access the Print Management web portal

Try one or more of the following:

**Make sure that the user roles are assigned appropriately**

For more information, contact your organization administrator.

**Contact the Lexmark Customer Support Center**

### Printing error

Try one or more of the following:

**Make sure that the user exists in the Account Management web portal**

For more information, see [“Managing users” on page 246](#).

**Make sure that the Print Release Management User role is granted to the user**

For more information, see [“Assigning organization roles” on page 244](#).

**Make sure that the Lexmark Print Management Client is configured correctly**

For more information, see [“Downloading the Lexmark Print Management Client” on page 366](#).

### Some settings are unavailable on the Print Management web portal

**Make sure that you have sufficient permission**

For more information on assigning roles, see [“Account Management” on page 239](#).



## Cannot send e-mail to the print queue server

Try one or more of the following:

**Make sure that the e-mail address is correct**


**Make sure that you have sufficient permission**

For more information on assigning roles, see [“Account Management” on page 239](#).

## An error appears when sending print jobs using the Lexmark Cloud Print Management for Chrome extension

**Make sure that your credentials are correct**

**In Microsoft 365, use Ctrl + P instead**

Sending print jobs using  is not supported in Microsoft 365. Use **Ctrl + P** to print instead.

## A warning appears when downloading the Lexmark Print Management Client

Try one or more of the following:

**Accept the warning**

Some browsers warn users of the risk associated with downloading EXE files.

**For Windows 10, disable the SmartScreen® feature temporarily**

For more information, see the documentation for your operating system.

## CSV-formatted reports show incorrect UTF-8 or have missing non-ASCII characters

Try one or more of the following:

**For Microsoft Excel, import the file to a new document, and then specify its file origin to UTF-8**

For more information, see the documentation for the application.

**For Notepad, save the document as a new file, and then specify the encoding menu to UTF-8**

For more information, see the documentation for the application.



## Custom settings from a LPMC installation do not appear

Try one or more of the following:

**Make sure that you have created an configuration.xml file**

**Make sure that the installer and the configuration files are in the same folder**

- Download the installer (EXE) file from the Print Management portal.

## Custom print driver settings do not appear

Try one or more of the following:

**Make sure that you have created an external LDC file**

Create the LDC file from the Printer Driver Configuration Utility.

**Make sure that the installer and the configuration files are in the same folder**

- 1 Download the installer (EXE) file from the Print Management portal.
- 2 Make sure that the installer and the LDC files are in the same directory.

## Lexmark Cloud Print Management print queues do not appear on client workstations

Try one or more of the following:

**Make sure that the C:\ProgramData\LPMC\configuration.xml file has the correct modes**

**Uninstall, and then install the package**

Lexmark Print Management Client only enables modes defined in the configuration file during installation.

## Installation with an LDC file is not working (Windows only)

Try one or more of the following:

**Make sure to use the correct file names**

During installation, the system looks for specific file names for the LDC files.

Use the following file names:

- LPMSaaSPrintQueueConfiguration.ldc** for the Cloud Print Management print queue
- LPMServerlessPrintQueueConfiguration.ldc** for the Hybrid Print Management print queue

**Make sure to use the correct names for the print queue**

The LDC configuration must use the following value for the print queue:

```
<PrinterObject value="Cloud Print Management - PCLXL"></PrinterObject>
```



**Note:** If a custom name is used for the print queue, then the value in **PrinterObject** must be the custom name of the print queue.

You can also use the following generic values for the printer profile and printer model:

```
<PrinterProfile name="Lexmark Universal v2" version="1.0">  
<PrinterModel value="Lexmark Universal v2"></PrinterModel>
```

## Scan Management troubleshooting

### Cannot access the Scan Management web portal

Try one or more of the following:

**Make sure that the user roles are assigned correctly**

For more information, contact your organization administrator.

**Contact the Lexmark Customer Support Center**

### Some settings are unavailable on the Scan Management web portal

**Make sure that you have sufficient permission**

For more information on assigning roles, see [“Account Management” on page 239](#).

### Cannot save Scan Management settings

**Make sure that the user roles are assigned correctly**

For more information on assigning roles, see [“Account Management” on page 239](#).

**Refresh your web browser**

**Contact the Lexmark Customer Support Center**

### Cannot communicate with Lexmark Cloud Services

This problem occurs when the token used for communicating with Lexmark Cloud Services has expired.

**Sign in to your Microsoft account again**

**Contact your system administrator**



## Cannot connect to your Microsoft account

**Make sure that your Microsoft account domain is supported in your organization**

For more information, see [“Configuring the Scan Management settings” on page 387](#)

**Refresh your web browser**

**Make sure that you have a stable network connection**

**Contact the Lexmark Customer Support Center**

## Cannot access the Cloud Scan application

**Make sure that the user roles are assigned correctly**

For more information on assigning roles, see [“Account Management” on page 239](#).

**Make sure that you have a stable network connection**

**Contact the Lexmark Customer Support Center**

## Error in scanning documents

**Make sure that the file size of your scanned documents does not exceed 20MB**

## Cloud Authentication settings do not reflect after deploying Cloud Scan Management

**If Cloud Scan Management and Cloud Print Management are deployed together, then two Cloud Authentication settings appear. Make sure that the two configurations are the same.**

**If Cloud Print Management is already deployed, then make sure that you follow the same Cloud Authentication settings for Cloud Scan Management.**

## Printer shows Invalid user error

**Make sure that the Device Quotas application is uninstalled or disabled**

If the Device Quotas application is already installed in a printer, then you cannot install the Cloud Scan and Translation Assistant applications.



## Analytics troubleshooting

### Report shows no data available

No data is available when the Analytics web portal has not received any data for the selected organization, group, department, cost center, or user for the selected date range.

Try one or more of the following:

**Change the date range to include more days**

**Select a different group, department, cost center, or user**

**Release a print job from the Lexmark Cloud Services queue, and then generate the report for the last 30 days**

### Bookmarked reports do not show

Try one or more of the following:

**Make sure that you are logged in to Lexmark Cloud Services**

**Make sure that you have access to the reports**

Depending on your user role, some reports may not be available. For more information, contact your organization administrator.

**See the documentation that came with your web browser**

### Reports do not show properly when printed

Depending on your web browser, the printed reports may be formatted differently.

Try one or more of the following:

**Make sure that the paper size used is either Letter or A4**

**Make sure that the page orientation is set to portrait**

### Cannot find users

Try one or more of the following:

**Make sure that the user is not deleted**

**Use the user name when searching**



## Cannot remove departments and cost centers from the reports

After a department or cost center is created and has reportable activity, that department or cost center becomes available in the Analytics web portal. Deleting the department and cost center in the Account Management web portal does not remove them from the reports.

**Select another date range where the department or cost center is not included**

## Reports do not show the correct period

**Make sure that the specified period is based on local time**

The reports are generated on a 24-hour midnight to midnight frequency in local time. The local time is based on the date and time settings of the web browser and operating system.

## Report does not show the correct file name

On uploading files with non-English names to the print queue, the file names may appear as garbage characters in the PRINTJOBNAME column in the full data export report. The error also depends on the software application used to open the CSV file.

**Select Notepad++ to open the CSV file**

**Select Microsoft Excel to open the CSV file**

To open the file correctly using Microsoft Excel, do the following:

- 1 From Microsoft Excel, click **Data > From Text/CSV**.
- 2 Browse to the CSV file.
- 3 Click **Open**.

## Report shows invalid date range

**Select a start date not preceding 2 years from the current date**

## Direct Print A4 submissions reported as Letter in Analytics

A4-size print jobs are reported as letter-size jobs in Analytics.

**Change the Scale Content settings in Microsoft Word**

To report the correct paper size, do the following:

- 1 Open Microsoft Word, and then click **File > Options > Advanced**.
- 2 In the Print section, disable the **Scale content for A4 or 8.5 x 11" paper sizes** option.  
**Note:** By default, the **Scale content for A4 or 8.5 x 11" paper sizes** is enabled.
- 3 Click **OK**.



# Appendix

## Integrating Cloud Fleet Management to third-party software

The integration API provides endpoints to facilitate integrations with third-party software. Use the following methods and keys to integrate Lexmark Cloud Fleet Management to your system:

### Retrieve Asset Counters

This call retrieves the counters, such as meters, for the assets in an organization and its child organizations. The organization is determined from the token specified in the Authorization header, which must be retrieved from the [Retrieve Token](#) call.

**Note:** This endpoint is now deprecated with the introduction of the API version 1.0 endpoints.

Method	URL
GET	<INTEGRATION_SERVICE_URL>/assets/inventory/counters

### Headers

Key	Value	Description
Authorization	Bearer <TOKEN>	The Retrieve Token call returns the token.

### Body

None.

### Return schema

```
{
  "type": "array",
  "items": {
    "type": "object",
    "required": [ "serialNumber", "dateCollected", "counters" ],
    "properties": {
      "serialNumber": { "type": "string" },
      "dateCollected": { "type": "integer" },
      "counters": {
        "type": "object",
        "properties": {
          "lifetimeCount": { "type": "integer" },
          "colorPrintSideCount": { "type": "integer" },
          "colorPrintSheetCount": { "type": "integer" },
          "monoPrintSideCount": { "type": "integer" },
          "monoPrintSheetCount": { "type": "integer" },
          "printSideCount": { "type": "integer" },
          "printSheetCount": { "type": "integer" },
          "colorCopySideCount": { "type": "integer" },
          "colorCopySheetCount": { "type": "integer" },
          "monoCopySideCount": { "type": "integer" },
          "monoCopySheetCount": { "type": "integer" },
          "copySideCount": { "type": "integer" },
          "copySheetCount": { "type": "integer" },
          "colorFaxSideCount": { "type": "integer" },
          "colorFaxSheetCount": { "type": "integer" },
          "monoFaxSideCount": { "type": "integer" },
        }
      }
    }
  }
}
```



```

        "monoFaxSheetCount": { "type": "integer" },
        "faxSideCount": { "type": "integer" },
        "faxSheetCount": { "type": "integer" },
        "colorSideCount": { "type": "integer" },
        "colorSheetCount": { "type": "integer" },
        "monoSideCount": { "type": "integer" },
        "monoSheetCount": { "type": "integer" },
        "totalSideCount": { "type": "integer" },
        "totalSheetCount": { "type": "integer" },
        "largeSideCount": { "type": "integer" },
        "largeSheetCount": { "type": "integer" },
        "duplexSideCount": { "type": "integer" },
        "duplexSheetCount": { "type": "integer" },
        "coverageTierBusinessSideCount": { "type": "integer" },
        "coverageTierBusinessSheetCount": { "type": "integer" },
        "coverageTierGraphicsSideCount": { "type": "integer" },
        "coverageTierGraphicsSheetCount": { "type": "integer" },
        "coverageTierHighlightSideCount": { "type": "integer" },
        "coverageTierHighlightSheetCount": { "type": "integer" },
    },
    },
    },
    "minItems": 0
}

```

## Sample response

```

[
  {
    "serialNumber": "14",
    "dateCollected": 1557259523000,
    "counters": {
      "monoPrintSideCount": 262,
      "printSideCount": 262,
      "printSheetCount": 262,
      "monoCopySideCount": 40,
      "copySideCount": 40,
      "copySheetCount": 40,
      "monoFaxSideCount": 0,
      "faxSideCount": 0,
      "faxSheetCount": 0,
      "monoSideCount": 302,
      "totalSideCount": 302,
      "totalSheetCount": 302,
      "duplexSheetCount": 0
    }
  },
  {
    "serialNumber": "29",
    "dateCollected": 1557259523000,
    "counters": {
      "lifetimeCount": 139,
      "monoPrintSideCount": 139,
      "printSideCount": 139,
      "printSheetCount": 136,
      "copySideCount": 0,
      "monoSideCount": 139,
      "totalSideCount": 139,
      "totalSheetCount": 136,
      "duplexSheetCount": 3
    }
  },
  {
    "serialNumber": "36",
    "dateCollected": null,
    "counters": {
    }
  }
]

```



## Retrieve Token

This call generates a token that is suitable for use with the [Retrieve Asset Counters](#) call.

Method	URL
POST	<IDP_URL>oauth/token

**Note:** <IDP\_URL> is either <https://idp.eu.iss.lexmark.com> for an organization in the EU data center or <https://idp.us.iss.lexmark.com/> for an organization in the U.S. data center.

### Headers

Key	Value
Content-Type	application/json

### Body

```
{
  "grant_type": "client_credentials",
  "client_id": "<CLIENT_ID>",
  "client_secret": "<CLIENT_SECRET>"
}
```

### Return schema

```
{
  "properties" : {
    "access_token": {"type": "string"},
    "token_type": {"type": "string"},
    "expires_in": {"type": "integer"},
    "created_at": {"type": "integer"}
  },
  "required": ["access_token", "token_type", "expires_in", "created_at"]
}
```

### Sample response

```
{
  "access_token": "abcd1234",
  "token_type": "bearer",
  "expires_in": 7200,
  "created_at": 1572633120
}
```

## Integrating Cloud Fleet Management to third-party software for version 1.0

The integration API provides endpoints to facilitate integrations with third-party software. API version 1.0 provides methods for getting all data from Cloud Fleet Management related to all assets in a partner organization and all of its children. In addition, it provides unique endpoints to retrieve subset of data such as supplies, alerts, and, diagnostics events. This new API version is paged with default page size of 50 assets and a maximum page size of 200 assets at a time. A caller can specify a smaller page size if necessary. It is expected to be used by integration connectors, and therefore requires client credential tokens. Use the following methods and keys to integrate Lexmark Cloud Fleet Management to your system:



URL	Method	Description
/v1.0/assets/supplies	GET	Retrieve supplies data for a page of assets.
/v1.0/assets/diagnostics	GET	Retrieve diagnostics data for a page of assets.
/v1.0/assets/alerts	GET	Retrieve alert data for a page of assets.
/v1.0/assets/counters	GET	Retrieve counter data for a page of assets.
/v1.0/assets	GET	Retrieve all data for a page of assets.

<INTEGRATION\_SERVICE\_URL> is as follows:

- <https://apis.eu.iss.lexmark.com/cfm/fleetmgmt-integration-service> for an organization in the EU data center.
- <https://apis.us.iss.lexmark.com/cfm/fleetmgmt-integration-service> for an organization in the U.S. data center.

## Retrieve Asset Supplies

This call retrieves the supplies containing the supply subresource in the organization and child organizations of the calling application. The organization is determined from the token specified in the Authorization header, which must be retrieved from the [Retrieve Token](#) call.

Method	URL
GET	<INTEGRATION_SERVICE_URL>/v1.0/assets/supplies

### Headers

Key	Value	Description
Authorization	Bearer <TOKEN>	The Retrieve Token call returns the token.

### Body

None.

### Return schema

```
{
  "type": "object",
  "properties": {
    "content": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "manufacturer": { "type": "string" },
          "modelName": { "type": "string" },
          "serialNumber": { "type": "string" },
          "accountId": { "type": "string" },
          "name": { "type": ["null", "string"] },
          "description": { "type": ["null", "string"] },
          "dateCreated": { "type": "number" },
          "dateModified": { "type": "number" },
          "lastCommunication": { "type": ["null", "number"] },
          "lastDataRefresh": { "type": "number" },
          "communicating": { "type": ["null", "boolean"] },
          "authenticated": { "type": ["null", "boolean"] },
          "baseFirmwareLastModifiedDate": { "type": ["null", "number"] },
          "counters": { "type": "null" },

```



```

        "diagnosticEvents": {
            "type": "array",
            "maxItems": 0
        },
        "supplies": {
            "type": "array",
            "items": {
                "type": "object",
                "properties": {
                    "serialNumber": { "type": ["null", "string"] },
                    "currentLevel": { "type": ["null", "integer"] },
                    "color": { "type": ["null", "string"] },
                    "description": { "type": ["null", "string"] },
                    "maximumCapacity": { "type": ["null", "number"] },
                    "type": { "type": ["null", "string"] },
                    "capacityUnit": { "type": ["null", "string"] },
                    "percentRemaining": { "type": ["null", "integer"] },
                    "supplyState": { "type": ["null", "string"] },
                    "status": { "type": ["null", "string"] },
                    "coverage": { "type": ["null", "number"] },
                    "installDate": { "type": ["null", "number"] },
                    "coverageLifetime": { "type": ["null", "number"] },
                    "coverageLastJob": { "type": ["null", "number"] },
                    "sidesOnSupply": { "type": ["null", "number"] },
                    "timestamp": { "type": ["null", "number"] },
                    "prebate": { "type": ["null", "boolean"] },
                    "genuine": { "type": ["null", "boolean"] },
                    "daysLeft": { "type": ["null", "number"] },
                    "daysLeftLastUpdated": { "type": ["null", "number"] }
                }
            }
        },
        "alerts": {
            "type": "array",
            "maxItems": 0
        }
    },
    "minItems": 0
},
"pageable": {
    "type": "object",
    "properties": {
        "sort": {
            "type": "object",
            "properties": {
                "sorted": { "type": "boolean" },
                "unsorted": { "type": "boolean" },
                "empty": { "type": "boolean" }
            }
        },
        "pageNumber": { "type": "integer" },
        "pageSize": { "type": "integer" },
        "offset": { "type": "integer" },
        "paged": { "type": "boolean" },
        "unpaged": { "type": "boolean" }
    }
},
"totalElements": { "type": "integer" },
"totalPages": { "type": "integer" },
"last": { "type": "boolean" },
"sort": {
    "type": "object",
    "properties": {
        "sorted": { "type": "boolean" },
        "unsorted": { "type": "boolean" },
        "empty": { "type": "boolean" }
    }
},
"first": { "type": "boolean" },
"numberOfElements": { "type": "integer" },
"size": { "type": "integer" },
"number": { "type": "integer" },

```



```

    "empty": { "type": "boolean" }
  }
}

```

## Sample response

```

{
  "content": [
    {
      "manufacturer": "Lexmark",
      "modelName": "X792e",
      "serialNumber": "123SERIALNUMBER",
      "accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637", "name": null,
      "description": null, "dateCreated": 1568139701472,
      "dateModified": 1621677697123,
      "lastCommunication": 1621686886903,
      "lastDataRefresh": 1621677697129,
      "communicating": false,
      "authenticated": true,
      "baseFirmwareLastModifiedDate": null,
      "counters": null,
      "diagnosticEvents": [],
      "supplies": [
        {
          "serialNumber": null,
          "currentLevel": 100,
          "color": "none",
          "description": "Waste Toner Bottle",
          "maximumCapacity": 200000,
          "type": "Waste Toner",
          "capacityUnit": "Sides",
          "percentRemaining": null,
          "supplyState": "UNKNOWN",
          "status": "Ok",
          "coverage": null,
          "installDate": null,
          "coverageLifetime": null,
          "coverageLastJob": null,
          "sidesOnSupply": null,
          "timestamp": 1621674025052,
          "prebate": null,
          "genuine": null,
          "daysLeft": null,
          "daysLeftLastUpdated": null
        },
        {
          "serialNumber": null,
            "currentLevel": 100,
            "color": "none",
            "description": "Separator Roll and Pick Assembly",
            "maximumCapacity": 120000,
            "type": "Other",
            "capacityUnit": "Other",
            "percentRemaining": null,
            "supplyState": "UNKNOWN",
            "status": "Ok",
            "coverage": null,
            "installDate": null,
            "coverageLifetime": null,
            "coverageLastJob": null,
            "sidesOnSupply": null,
            "timestamp": 1621674025053,
            "prebate": null,
            "genuine": null,
            "daysLeft": null,
            "daysLeftLastUpdated": null
          },
        {
          "serialNumber": "SUPPLYSERIAL1",
            "currentLevel": 50,
            "color": "none",
            "description": "Fuser",

```



```
"maximumCapacity": 150000,
"type": "Fuser",
"capacityUnit": "Sides",
"percentRemaining": null,
"supplyState": "UNKNOWN",
"status": "Intermediate",
"coverage": null,
"installDate": null,
"coverageLifetime": null,
"coverageLastJob": null,
"sidesOnSupply": null,
"timestamp":
1621674025055, "prebate": null,
"genuine": null,
"daysLeft": null,
"daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLYSERIAL2", "color": "Yellow",
  "description": "Yellow Cartridge",
  "maximumCapacity": 20000,
  "type": "Toner",
  "capacityUnit": "Sides",
  "percentRemaining": null,
  "supplyState": "UNKNOWN",
  "status": "Low",
  "coverage": 0.028,
  "installDate": 1568701948000,
  "coverageLifetime": 6.198895,
  "coverageLastJob": 15,
  "sidesOnSupply": 31355,
  "timestamp": 1621674025056,
  "prebate": true,
  "genuine": null,
  "daysLeft": null,
  "daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLYSERIAL3",
  "currentLevel": 100,
  "color": "none",
  "description": "Transfer Module",
  "maximumCapacity": 200000,
  "type": "Other",
  "capacityUnit": "Other",
  "percentRemaining": null,
  "supplyState": "UNKNOWN",
  "status": "Ok",
  "coverage": null,
  "installDate": null,
  "coverageLifetime": null,
  "coverageLastJob": null,
  "sidesOnSupply": null,
  "timestamp": 1621674025057,
  "prebate": null,
  "genuine": null,
  "daysLeft": null,
  "daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLYSERIAL4",
  "currentLevel": 80,
  "color": "Magenta",
  "description": "Magenta Cartridge",
  "maximumCapacity": 6000,
  "type": "Toner",
  "capacityUnit": "Sides",
  "percentRemaining": null,
  "supplyState": "AUTHENTIC",
  "status": "Intermediate",
  "coverage": 2.872,
  "installDate": 1568701948000,
  "coverageLifetime": 4.0110497,
```



```

        "coverageLastJob": 11,
        "sidesOnSupply": 177,
        "timestamp": 1621674025073, "prebate": true,
        "genuine": null,
        "daysLeft": null,
        "daysLeftLastUpdated": null
    },
    {
        "serialNumber": "SUPPLYSERIAL6",
        "currentLevel": 20,
        "color": "Cyan",
        "description": "Cyan Cartridge",
        "maximumCapacity": 12000,
        "type": "Toner",
        "capacityUnit": "Sides",
        "percentRemaining": null,
        "supplyState": "UNKNOWN",
        "status": "Intermediate",
        "coverage": 0.194,
        "installDate": 1568701948000,
        "coverageLifetime": 7.331492,
        "coverageLastJob": 21,
        "sidesOnSupply": 4688,
        "prebate": true,
        "genuine": null,
        "daysLeft": null,
        "daysLeftLastUpdated": null
    }
],
"alerts": []
},
{
    "manufacturer": "Lexmark",
    "modelName": "CX825",
    "serialNumber": "12345SERIALNUMBER",
    "accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
    "name": null, "description": null,
    "dateCreated": 1568139300179,
    "dateModified": 1617891557869,
    "lastCommunication": 1617891642361,
    "lastDataRefresh": 1627605287407,
    "communicating": false,
    "authenticated": true,
    "baseFirmwareLastModifiedDate": null,
    "counters": null,
    "diagnosticEvents": [],
    "supplies": [],
    "alerts": []
}
],
"pageable": {
    "sort": { "sorted": false,
        "unsorted": true,
        "empty": true
    },
    "pageNumber": 0,
    "pageSize": 50,
    "offset": 0,
    "paged": true,
    "unpaged": false
},
"totalElements": 2,
"totalPages": 1,
"last": false,
"sort": {
    "sorted": false,
    "unsorted": true,
    "empty": true
},
"first": true,
"numberOfElements": 50,
"size": 50,
"number": 0, "empty": false

```



```
}  
"timestamp": 1621674025075,
```

## Retrieve Asset Diagnostics

This call retrieves a page of assets containing the diagnostic subresource in the organization and child organizations of the calling application. The organization is determined from the token specified in the Authorization header, which must be retrieved from the [Retrieve Token](#) call.

Method	URL
GET	<INTEGRATION_SERVICE_URL>/v1.0/assets/diagnostics

### Headers

Key	Value	Description
Authorization	Bearer <TOKEN>	The Retrieve Token call returns the token.

### Body

None.

### Return schema

```
{  
  "type": "object",  
  "properties": {  
    "content": {  
      "type": "array",  
      "items": {  
        "type": "object",  
        "properties": {  
          "manufacturer": { "type": "string" },  
          "modelName": { "type": "string" },  
          "serialNumber": { "type": "string" },  
          "accountId": { "type": "string" },  
          "name": { "type": ["null", "string"] },  
          "description": { "type": ["null", "string"] },  
          "dateCreated": { "type": "number" },  
          "dateModified": { "type": "number" },  
          "lastCommunication": { "type": ["null", "number"] },  
          "lastDataRefresh": { "type": "number" },  
          "communicating": { "type": ["null", "boolean"] },  
          "authenticated": { "type": ["null", "boolean"] },  
          "baseFirmwareLastModifiedDate": { "type": ["null", "number"] },  
          "counters": { "type": "null" },  
          "diagnosticEvents": {  
            "type": "array",  
            "items": {  
              "type": "object",  
              "properties": {  
                "dateCreated": { "type": "number" },  
                "alert": { "type": ["null", "string"] },  
                "alertDttm": { "type": ["null", "number"] },  
                "alertId": { "type": ["null", "string"] },  
                "alertType": { "type": ["null", "string"] },  
                "collectorId": { "type": ["null", "string"] },  
                "errorCode": { "type": ["null", "string"] },  
                "errorReason": { "type": ["null", "string"] },  
                "errorType": { "type": ["null", "string"] },  
                "expirationDttm": { "type": "number" },  
                "hostname": { "type": ["null", "string"] },  
                "ipAddress": { "type": ["null", "string"] },  
                "lpc": { "type": ["null", "number"] },  
                "model": { "type": ["null", "string"] },
```



```

        "serialNumber": { "type": ["null", "string"] }
    },
    },
    "supplies": {
        "type": "array",
        "maxItems": 0
    },
    "alerts": {
        "type": "array",
        "maxItems": 0
    }
},
"minItems": 0
},
"pageable": {
    "type": "object",
    "properties": {
        "sort": {
            "type": "object",
            "properties": {
                "sorted": { "type": "boolean" },
                "unsorted": { "type": "boolean" },
                "empty": { "type": "boolean" }
            }
        },
        "pageNumber": { "type": "integer" },
        "pageSize": { "type": "integer" },
        "offset": { "type": "integer" },
        "paged": { "type": "boolean" },
        "unpaged": { "type": "boolean" }
    }
},
"totalElements": { "type": "integer" },
"totalPages": { "type": "integer" },
"last": { "type": "boolean" },
"sort": {
    "type": "object",
    "properties": {
        "sorted": { "type": "boolean" },
        "unsorted": { "type": "boolean" },
        "empty": { "type": "boolean" }
    }
},
"first": { "type": "boolean" },
"numberOfElements": { "type": "integer" },
"size": { "type": "integer" },
"number": { "type": "integer" },
"empty": { "type": "boolean" }
}
}

```

## Sample response

```

{
  "content": [
    {
      "manufacturer": "Lexmark",
      "modelName": "X792e",
      "serialNumber": "123SERIALNUMBER",
      "accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
      "name": null,
      "description": null,
      "dateCreated": 1568139701472,
      "dateModified": 1621677697123,
      "lastCommunication": 1621686886903,
      "lastDataRefresh": 1621677697129,
      "communicating": false,
      "authenticated": true,
      "baseFirmwareLastModifiedDate": null,
      "counters": null,
    }
  ]
}

```



```

    "diagnosticEvents": [],
    "supplies": [],
    "alerts": []
  },
  {
    "manufacturer": "Lexmark",
    "modelName": "CX825",
    "serialNumber": "12345SERIALNUMBER",
    "accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
    "name": null,
    "description": null,
    "dateCreated": 1568139300179,
    "dateModified": 1617891557869,
    "lastCommunication": 1617891642361,
    "lastDataRefresh": 1627605287407,
    "communicating": false,
    "authenticated": true,
    "baseFirmwareLastModifiedDate": null,
    "counters": null,
    "diagnosticEvents": [
      {
        "dateCreated": 1639077580134,
        "alert": "202.03 PAPER JAM: repeated 25 time(s) in 500 pages",
        "alertDttm": 1639077580134,
        "alertId": "61b25b2cc036774096bbef91", "alertType": "Prescriptive",
        "collectorId": "CBR01",
        "errorCode": "202.03", "errorReason":
          "HC_REP", "errorType": "%202.03%",
        "expirationDttm": 1313123,
        "hostname": "10.99.0.60",
        "ipAddress": "10.99.0.60",
        "lpc": 505535,
        "model": "LEXMARK CX825",
        "serialNumber": "12345SERIALNUMBER"
      },
      {
        "dateCreated": 163907758999,
        "alert": "Other alert",
        "alertDttm": 163907758999,
        "alertId": "61b25b2cc036774096bbef99",
        "alertType": "Prescriptive",
        "collectorId": "CBR01",
        "errorCode": "202.03",
        "errorReason": "HC_REP",
        "errorType": "%202.03%",
        "expirationDttm": 1313123,
        "hostname": "10.99.0.60",
        "ipAddress": "10.99.0.60",
        "lpc": 505535,
        "model": "LEXMARK CX825",
        "serialNumber": "12345SERIALNUMBER"
      }
    ],
    "supplies": [],
    "alerts": []
  }
],
"pageable": {
  "sort": {
    "sorted": false,
    "unsorted": true,
    "empty": true
  },
  "pageNumber": 0,
  "pageSize": 50,
  "offset": 0,
  "paged": true,
  "unpaged": false
},
"totalElements": 2,
"totalPages": 1, "last": false,
"sort": {

```



```

    "sorted": false,
    "unsorted": true,
    "empty": true
  },
  "first": true,
  "numberOfElements": 50,
  "size": 50,
  "number": 0, "empty": false
}

```

## Retrieve Asset Alerts

This call retrieves the supplies containing the alerts subresource in the organization and child organizations of the calling application. The organization is determined from the token specified in the Authorization header, which must be retrieved from the [Retrieve Token](#) call.

Method	URL
GET	<INTEGRATION_SERVICE_URL>/v1.0/assets/alerts

### Headers

Key	Value	Description
Authorization	Bearer <TOKEN>	The Retrieve Token call returns the token.

### Body

None.

### Return schema

```

{
  "type": "object",
  "properties": {
    "content": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "manufacturer": { "type": "string" },
          "modelName": { "type": "string" },
          "serialNumber": { "type": "string" },
          "accountId": { "type": "string" },
          "name": { "type": ["null", "string"] },
          "description": { "type": ["null", "string"] },
          "dateCreated": { "type": "number" },
          "dateModified": { "type": "number" },
          "lastCommunication": { "type": ["null", "number"] },
          "lastDataRefresh": { "type": "number" },
          "communicating": { "type": ["null", "boolean"] },
          "authenticated": { "type": ["null", "boolean"] },
          "baseFirmwareLastModifiedDate": { "type": ["null", "number"] },
          "counters": { "type": "null" },
          "diagnosticEvents": {
            "type": "array",
            "maxItems": 0
          },
          "supplies": {
            "type": "array",
            "maxItems": 0
          },
          "alerts": {
            "type": "array",
            "items": {
              "type": "object",

```



```

        "properties": {
          "status": { "type": ["null", "string"] },
          "issue": { "type": ["null", "string"] }
        }
      }
    },
    "minItems": 0
  },
  "pageable": {
    "type": "object",
    "properties": {
      "sort": {
        "type": "object",
        "properties": {
          "sorted": { "type": "boolean" },
          "unsorted": { "type": "boolean" },
          "empty": { "type": "boolean" }
        }
      },
      "pageNumber": { "type": "integer" },
      "pageSize": { "type": "integer" },
      "offset": { "type": "integer" },
      "paged": { "type": "boolean" },
      "unpaged": { "type": "boolean" }
    }
  },
  "totalElements": { "type": "integer" },
  "totalPages": { "type": "integer" },
  "last": { "type": "boolean" },
  "sort": {
    "type": "object",
    "properties": {
      "sorted": { "type": "boolean" },
      "unsorted": { "type": "boolean" },
      "empty": { "type": "boolean" }
    }
  },
  "first": { "type": "boolean" },
  "numberOfElements": { "type": "integer" },
  "size": { "type": "integer" },
  "number": { "type": "integer" },
  "empty": { "type": "boolean" }
}
}

```

## Sample response

```

{
  "content": [
    {
      "manufacturer": "Lexmark",
      "modelName": "X792e",
      "serialNumber": "123SERIALNUMBER",
      "accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
      "name": null,
      "description": null,
      "dateCreated": 1568139701472,
      "dateModified": 1621677697123,
      "lastCommunication": 1621686886903,
      "lastDataRefresh": 1621677697129,
      "communicating": false,
      "authenticated": true,
      "baseFirmwareLastModifiedDate": null,
      "counters": null,
      "diagnosticEvents": [], "supplies": [],
      "alerts": []
    },
    {
      "manufacturer": "Lexmark",
      "modelName": "CX825",

```



```

"serialNumber": "12345SERIALNUMBER",
"accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
"name": null,
"description": null,
"dateCreated": 1568139300179,
"dateModified": 1617891557869,
"lastCommunication": 1617891642361,
"lastDataRefresh": 1627605287407,
"communicating": false,
"authenticated": true,
"baseFirmwareLastModifiedDate": null,
"counters": null,
"diagnosticEvents": [],
"supplies": [],
>alerts": [
  {
    "status": "ERROR",
    "issue": "Remove paper from Standard Output Bin"
  },
  {
    "status": "ERROR",
    "issue": " [145.80A]"
  },
  {
    "status": "WARNING",
    "issue": "Standard Bin Full"
  }
]
},
"pageable": {
  "sort": {
    "sorted": false,
    "unsorted": true,
    "empty": true
  },
  "pageNumber": 0,
  "pageSize": 50,
  "offset": 0,
  "paged": true,
  "unpaged": false
},
"totalElements": 2,
"totalPages": 1, "last": false,
"sort": {
  "sorted": false,
  "unsorted": true,
  "empty": true
},
"first": true,
"numberOfElements": 50,
"size": 50,
"number": 0,
"empty": false
}

```

## Retrieve Asset Counters

This call retrieves a page of assets containing the counters subresource in the organization and child organizations of the calling application. The organization is determined from the token specified in the Authorization header, which must be retrieved from the [Retrieve Token](#) call.

Method	URL
GET	<INTEGRATION_SERVICE_URL>/v1.0/assets/counters



## Headers

Key	Value	Description
Authorization	Bearer <TOKEN>	The Retrieve Token call returns the token.

## Body

None.

## Return schema

```
{
  "type": "object",
  "properties": {
    "content": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "manufacturer": { "type": "string" },
          "modelName": { "type": "string" },
          "serialNumber": { "type": "string" },
          "accountId": { "type": "string" },
          "name": { "type": ["null", "string"] },
          "description": { "type": ["null", "string"] },
          "dateCreated": { "type": "number" },
          "dateModified": { "type": "number" },
          "lastCommunication": { "type": ["null", "number"] },
          "lastDataRefresh": { "type": "number" },
          "communicating": { "type": ["null", "boolean"] },
          "authenticated": { "type": ["null", "boolean"] },
          "baseFirmwareLastModifiedDate": { "type": ["null", "number"] },
          "counters": {
            "type": ["null", "object"],
            "properties": {
              "lifetimeCount": { "type": ["null", "integer"] },
              "lifetimeCountUnit": { "type": ["null", "string"] },
              "colorPrintSideCount": { "type": ["null", "integer"] },
              "colorPrintSheetCount": { "type": ["null", "integer"] },
              "monoPrintSideCount": { "type": ["null", "integer"] },
              "monoPrintSheetCount": { "type": ["null", "integer"] },
              "printSideCount": { "type": ["null", "integer"] },
              "printSheetCount": { "type": ["null", "integer"] },
              "colorCopySideCount": { "type": ["null", "integer"] },
              "colorCopySheetCount": { "type": ["null", "integer"] },
              "monoCopySideCount": { "type": ["null", "integer"] },
              "monoCopySheetCount": { "type": ["null", "integer"] },
              "copySideCount": { "type": ["null", "integer"] },
              "copySheetCount": { "type": ["null", "integer"] },
              "colorFaxSideCount": { "type": ["null", "integer"] },
              "colorFaxSheetCount": { "type": ["null", "integer"] },
              "monoFaxSideCount": { "type": ["null", "integer"] },
              "monoFaxSheetCount": { "type": ["null", "integer"] },
              "faxSideCount": { "type": ["null", "integer"] },
              "faxSheetCount": { "type": ["null", "integer"] },
              "colorSideCount": { "type": ["null", "integer"] },
              "colorSheetCount": { "type": ["null", "integer"] },
              "monoSideCount": { "type": ["null", "integer"] },
              "monoSheetCount": { "type": ["null", "integer"] },
              "totalSideCount": { "type": ["null", "integer"] },
              "totalSheetCount": { "type": ["null", "integer"] },
              "colorLargeSideCount": { "type": ["null", "integer"] },
              "monoLargeSideCount": { "type": ["null", "integer"] },
              "largeSideCount": { "type": ["null", "integer"] },
              "largeSheetCount": { "type": ["null", "integer"] },
              "duplexSideCount": { "type": ["null", "integer"] },
              "duplexSheetCount": { "type": ["null", "integer"] },
              "coverageTierBusinessSideCount": { "type": ["null", "integer"] },
              "coverageTierBusinessSheetCount": { "type": ["null",
"integer"] },

```



```

        "coverageTierGraphicsSideCount": { "type": ["null", "integer"] },
        "coverageTierGraphicsSheetCount": { "type": ["null",
"integer"] },
        "coverageTierHighlightSideCount": { "type": ["null",
"integer"] },
        "coverageTierHighlightSheetCount": { "type": ["null",
"integer"] },
        "paperCounts": {
            "type": "array",
            "items": {
                "type": "object",
                "properties": {
                    "paperSheetPickedCount": { "type": ["null",
"integer"] },
                    "paperSheetSafeCount": { "type": ["null",
"integer"] },
                    "paperSideColorPickedCount": { "type": ["null",
"integer"] },
                    "paperSideColorSafeCount": { "type": ["null",
"integer"] },
                    "paperSideMonoPickedCount": { "type": ["null",
"integer"] },
                    "paperSideMonoSafeCount": { "type": ["null",
"integer"] },
                    "paperSize": { "type": ["null", "string"] },
                    "paperType": { "type": ["null", "string"] }
                }
            }
        },
        "blankCopySideCount": { "type": ["null", "integer"] },
        "adfScanCount": { "type": ["null", "integer"] },
        "flatbedScanCount": { "type": ["null", "integer"] },
        "scanToLocalhostScanCount": { "type": ["null", "integer"] },
        "copyScanCount": { "type": ["null", "integer"] },
        "faxScanCount": { "type": ["null", "integer"] },
        "simplexAdfScanCount": { "type": ["null", "integer"] },
        "duplexAdfScanCount": { "type": ["null", "integer"] },
        "monoScanCount": { "type": ["null", "integer"] },
        "colorScanCount": { "type": ["null", "integer"] },
        "totalScanCount": { "type": ["null", "integer"] },
        "blankFaxSideCount": { "type": ["null", "integer"] }
    },
    "diagnosticEvents": {
        "type": "array",
        "maxItems": 0
    },
    "supplies": {
        "type": "array",
        "maxItems": 0
    },
    "alerts": {
        "type": "array",
        "maxItems": 0
    }
},
"minItems": 0
},
"pageable": {
    "type": "object",
    "properties": {
        "sort": {
            "type": "object",
            "properties": {
                "sorted": { "type": "boolean" },
                "unsorted": { "type": "boolean" },
                "empty": { "type": "boolean" }
            }
        },
        "pageNumber": { "type": "integer" },
        "pageSize": { "type": "integer" },
        "offset": { "type": "integer" },

```



```

        "paged": { "type": "boolean" },
        "unpaged": { "type": "boolean" }
    },
    "totalElements": { "type": "integer" },
    "totalPages": { "type": "integer" },
    "last": { "type": "boolean" },
    "sort": {
        "type": "object",
        "properties": {
            "sorted": { "type": "boolean" },
            "unsorted": { "type": "boolean" },
            "empty": { "type": "boolean" }
        }
    },
    "first": { "type": "boolean" },
    "numberOfElements": { "type": "integer" },
    "size": { "type": "integer" },
    "number": { "type": "integer" },
    "empty": { "type": "boolean" }
}
}

```

## Sample response

```

{
  "content": [
    {
      "manufacturer": "Lexmark",
      "modelName": "X792e",
      "serialNumber": "123SERIALNUMBER",
      "accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
      "name": null,
      "description": null,
      "dateCreated": 1568139701472,
      "dateModified": 1621677697123,
      "lastCommunication": 1621686886903,
      "lastDataRefresh": 1621677697129,
      "communicating": false,
      "authenticated": true,
      "baseFirmwareLastModifiedDate": null,
      "counters": {
        "lifetimeCount": 6436,
        "lifetimeCountUnit": "Sides",
        "colorPrintSideCount": 464,
        "colorPrintSheetCount": null,
        "monoPrintSideCount": 2636,
        "monoPrintSheetCount": null,
        "printSideCount": 3100,
        "printSheetCount": 3067,
        "colorCopySideCount": 175,
        "colorCopySheetCount": null,
        "monoCopySideCount": 50,
        "monoCopySheetCount": null,
        "copySideCount": 225,
        "copySheetCount": 217,
        "colorFaxSideCount": 99,
        "colorFaxSheetCount": null,
        "monoFaxSideCount": 2994,
        "monoFaxSheetCount": null,
        "faxSideCount": 3093,
        "faxSheetCount": 3093,
        "colorSideCount": 738,
        "colorSheetCount": null,
        "monoSideCount": 5680,
        "monoSheetCount": null,
        "totalSideCount": 6418,
        "totalSheetCount": 6377,
        "colorLargeSideCount": null,
        "monoLargeSideCount": null,
        "largeSideCount": null,
        "largeSheetCount": null,

```



```

"duplexSideCount": null,
"duplexSheetCount": 41,
"coverageTierBusinessSideCount": null,
"coverageTierBusinessSheetCount": null,
"coverageTierGraphicsSideCount": null,
"coverageTierGraphicsSheetCount": null,
"coverageTierHighlightSideCount": null,
"coverageTierHighlightSheetCount": null,
"paperCounts": [
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 5370,
    "paperSideColorPickedCount": 586,
    "paperSideColorSafeCount": 700,
    "paperSideMonoPickedCount": 2377,
    "paperSideMonoSafeCount": 4711,
    "paperSize": "Letter",
    "paperType": "Plain"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 3,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 0,
    "paperSideMonoPickedCount": 1,
    "paperSideMonoSafeCount": 3,
    "paperSize": "Letter",
    "paperType": "Custom Type 2"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 23,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 0,
    "paperSideMonoPickedCount": 0,
    "paperSideMonoSafeCount": 23,
    "paperSize": "Oficio",
    "paperType": "Plain"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 24,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 0,
    "paperSideMonoPickedCount": 0,
    "paperSideMonoSafeCount": 24, "paperSize": "Legal", "paperType": "Plain"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 110,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 7,
    "paperSideMonoPickedCount": 0,
    "paperSideMonoSafeCount": 103,
    "paperSize": "Executive",
    "paperType": "Plain"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 56,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 0,
    "paperSideMonoPickedCount": 0,
    "paperSideMonoSafeCount": 56,
    "paperSize": "Folio",
    "paperType": "Plain"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 52,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 0,
    "paperSideMonoPickedCount": 0,
  }
]

```



```

        "paperSideMonoSafeCount": 52,
        "paperSize": "JIS B5",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 685,
        "paperSideColorPickedCount": 3,
        "paperSideColorSafeCount": 30,
        "paperSideMonoPickedCount": 178,
        "paperSideMonoSafeCount": 655,
        "paperSize": "A4",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 45,
        "paperSideColorPickedCount": 0,
        "paperSideColorSafeCount": 0,
        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 45,
        "paperSize": "A5",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 4,
        "paperSideColorPickedCount": 0,
        "paperSideColorSafeCount": 0,
        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 4,
        "paperSize": "A6",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 1,
        "paperSideColorPickedCount": 0,
        "paperSideColorSafeCount": 0,
        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 1,
        "paperSize": "A4",
        "paperType": "Custom Type 2"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 4,
        "paperSideColorPickedCount": 1,
        "paperSideColorSafeCount": 1,
        "paperSideMonoPickedCount": 3,
        "paperSideMonoSafeCount": 3,
        "paperSize": "Letter",
        "paperType": "Transparency"
    }
],
"blankCopySideCount": 1,
"adfScanCount": 377,
"flatbedScanCount": 722,
"scanToLocalhostScanCount": null,
"copyScanCount": 101,
"faxScanCount": 815,
"simplexAdfScanCount": null,
"duplexAdfScanCount": null,
"monoScanCount": null,
"colorScanCount": null,
"totalScanCount": 1099,
"blankFaxSideCount": 0
},
"diagnosticEvents": [],
"supplies": [],
"alerts": []
},
{

```



```
"manufacturer": "Lexmark",
"modelName": "CX825",
"serialNumber": "12345SERIALNUMBER",
"accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
"name": null,
"description": null,
"dateCreated": 1568139300179,
"dateModified": 1617891557869,
"lastCommunication": 1617891642361,
"lastDataRefresh": 1627605287407,
"communicating": false,
"authenticated": true,
"baseFirmwareLastModifiedDate": null,
"counters": {
  "lifetimeCount": 30932,
  "lifetimeCountUnit": "Sides",
  "colorPrintSideCount": 27268,
  "colorPrintSheetCount": null,
  "monoPrintSideCount": 3196,
  "monoPrintSheetCount": null,
  "printSideCount": 30464,
  "printSheetCount": 28872,
  "colorCopySideCount": 447,
  "colorCopySheetCount": null,
  "monoCopySideCount": 2,
  "monoCopySheetCount": null,
  "copySideCount": 449,
  "copySheetCount": 284,
  "colorFaxSideCount": 0,
  "colorFaxSheetCount": null,
  "monoFaxSideCount": 0,
  "monoFaxSheetCount": null,
  "faxSideCount": 0,
  "faxSheetCount": 0,
  "colorSideCount": 27715,
  "colorSheetCount": null,
  "monoSideCount": 3198,
  "monoSheetCount": null,
  "totalSideCount": 30914,
  "totalSheetCount": 29156,
  "colorLargeSideCount": null,
  "monoLargeSideCount": null,
  "largeSideCount": null,
  "largeSheetCount": null,
  "duplexSideCount": null,
  "duplexSheetCount": 1758,
  "coverageTierBusinessSideCount": 11373,
  "coverageTierBusinessSheetCount": null,
  "coverageTierGraphicsSideCount": 5013,
  "coverageTierGraphicsSheetCount": null,
  "coverageTierHighlightSideCount": 11327,
  "coverageTierHighlightSheetCount": null,
  "paperCounts": [],
  "blankCopySideCount": null,
  "adfScanCount": null,
  "flatbedScanCount": null,
  "scanToLocalhostScanCount": null,
  "copyScanCount": null,
  "faxScanCount": null,
  "simplexAdfScanCount": null,
  "duplexAdfScanCount": null,
  "monoScanCount": null,
  "colorScanCount": null,
  "totalScanCount": null,
  "blankFaxSideCount": null
},
"diagnosticEvents": [],
"supplies": [],
>alerts": []
}
],
"pageable": {
  "sort": {
```



```

        "sorted": false,
        "unsorted": true,
        "empty": true
      },
      "pageNumber": 0,
      "pageSize": 50,
      "offset": 0,
      "paged": true,
      "unpaged": false
    },
    "totalElements": 2,
    "totalPages": 1,
    "last": false,
    "sort": {
      "sorted": false,
      "unsorted": true,
      "empty": true
    },
    "first": true,
    "numberOfElements": 50,
    "size": 50,
    "number": 0,
    "empty": false
  }
}

```

## Retrieve Assets

This call retrieves a page of assets containing the subresource in the organization and child organizations of the calling application. The organization is determined from the token specified in the Authorization header, which must be retrieved from the [Retrieve Token](#) call.

Method	URL
GET	<INTEGRATION_SERVICE_URL>/v1.0/assets

## Headers

Key	Value	Description
Authorization	Bearer <TOKEN>	The Retrieve Token call returns the token.

## Body

None.

**Note:** This API returns all data sets for all assets. It has an optional parameter to return all data for a single serial number.

## Return schema

```

{
  "type": "object",
  "properties": {
    "content": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "manufacturer": { "type": "string" },
          "modelName": { "type": "string" },
          "serialNumber": { "type": "string" },
          "accountId": { "type": "string" },
          "name": { "type": ["null", "string"] },
          "description": { "type": ["null", "string"] },
          "dateCreated": { "type": "number" },
          "dateModified": { "type": "number" },

```



```

"lastCommunication": { "type": ["null", "number"] },
"lastDataRefresh": { "type": "number" },
"communicating": { "type": ["null", "boolean"] },
"authenticated": { "type": ["null", "boolean"] },
"baseFirmwareLastModifiedDate": { "type": ["null", "number"] },
"counters": {
  "type": ["null", "object"],
  "properties": {
    "lifetimeCount": { "type": ["null", "integer"] },
    "lifetimeCountUnit": { "type": ["null", "string"] },
    "colorPrintSideCount": { "type": ["null", "integer"] },
    "colorPrintSheetCount": { "type": ["null", "integer"] },
    "monoPrintSideCount": { "type": ["null", "integer"] },
    "monoPrintSheetCount": { "type": ["null", "integer"] },
    "printSideCount": { "type": ["null", "integer"] },
    "printSheetCount": { "type": ["null", "integer"] },
    "colorCopySideCount": { "type": ["null", "integer"] },
    "colorCopySheetCount": { "type": ["null", "integer"] },
    "monoCopySideCount": { "type": ["null", "integer"] },
    "monoCopySheetCount": { "type": ["null", "integer"] },
    "copySideCount": { "type": ["null", "integer"] },
    "copySheetCount": { "type": ["null", "integer"] },
    "colorFaxSideCount": { "type": ["null", "integer"] },
    "colorFaxSheetCount": { "type": ["null", "integer"] },
    "monoFaxSideCount": { "type": ["null", "integer"] },
    "monoFaxSheetCount": { "type": ["null", "integer"] },
    "faxSideCount": { "type": ["null", "integer"] },
    "faxSheetCount": { "type": ["null", "integer"] },
    "colorSideCount": { "type": ["null", "integer"] },
    "colorSheetCount": { "type": ["null", "integer"] },
    "monoSideCount": { "type": ["null", "integer"] },
    "monoSheetCount": { "type": ["null", "integer"] },
    "totalSideCount": { "type": ["null", "integer"] },
    "totalSheetCount": { "type": ["null", "integer"] },
    "colorLargeSideCount": { "type": ["null", "integer"] },
    "monoLargeSideCount": { "type": ["null", "integer"] },
    "largeSideCount": { "type": ["null", "integer"] },
    "largeSheetCount": { "type": ["null", "integer"] },
    "duplexSideCount": { "type": ["null", "integer"] },
    "duplexSheetCount": { "type": ["null", "integer"] },
    "coverageTierBusinessSideCount": { "type": ["null", "integer"] },
    "coverageTierBusinessSheetCount": { "type": ["null",
"integer"] },
    "coverageTierGraphicsSideCount": { "type": ["null", "integer"] },
    "coverageTierGraphicsSheetCount": { "type": ["null",
"integer"] },
    "coverageTierHighlightSideCount": { "type": ["null",
"integer"] },
    "coverageTierHighlightSheetCount": { "type": ["null",
"integer"] },
    "paperCounts": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "paperSheetPickedCount": { "type": ["null",
"integer"] },
          "paperSheetSafeCount": { "type": ["null",
"integer"] },
          "paperSideColorPickedCount": { "type": ["null",
"integer"] },
          "paperSideColorSafeCount": { "type": ["null",
"integer"] },
          "paperSideMonoPickedCount": { "type": ["null",
"integer"] },
          "paperSideMonoSafeCount": { "type": ["null",
"integer"] },
          "paperSize": { "type": ["null", "string"] },
          "paperType": { "type": ["null", "string"] }
        }
      }
    },
    "blankCopySideCount": { "type": ["null", "integer"] },

```



```

        "adfScanCount": { "type": ["null", "integer"] },
        "flatbedScanCount": { "type": ["null", "integer"] },
        "scanToLocalhostScanCount": { "type": ["null", "integer"] },
        "copyScanCount": { "type": ["null", "integer"] },
        "faxScanCount": { "type": ["null", "integer"] },
        "simplexAdfScanCount": { "type": ["null", "integer"] },
        "duplexAdfScanCount": { "type": ["null", "integer"] },
        "monoScanCount": { "type": ["null", "integer"] },
        "colorScanCount": { "type": ["null", "integer"] },
        "totalScanCount": { "type": ["null", "integer"] },
        "blankFaxSideCount": { "type": ["null", "integer"] }
    },
    "diagnosticEvents": {
        "type": "array",
        "items": {
            "type": "object",
            "properties": {
                "dateCreated": { "type": "number" },
                "alert": { "type": ["null", "string"] },
                "alertDttm": { "type": ["null", "number"] },
                "alertId": { "type": ["null", "string"] },
                "alertType": { "type": ["null", "string"] },
                "collectorId": { "type": ["null", "string"] },
                "errorCode": { "type": ["null", "string"] },
                "errorReason": { "type": ["null", "string"] },
                "errorType": { "type": ["null", "string"] },
                "expirationDttm": { "type": "number" },
                "hostname": { "type": ["null", "string"] },
                "ipAddress": { "type": ["null", "string"] },
                "lpc": { "type": ["null", "number"] },
                "model": { "type": ["null", "string"] },
                "serialNumber": { "type": ["null", "string"] }
            }
        }
    },
    "supplies": {
        "type": "array",
        "items": {
            "type": "object",
            "properties": {
                "serialNumber": { "type": ["null", "string"] },
                "currentLevel": { "type": ["null", "integer"] },
                "color": { "type": ["null", "string"] },
                "description": { "type": ["null", "string"] },
                "maximumCapacity": { "type": ["null", "number"] },
                "type": { "type": ["null", "string"] },
                "capacityUnit": { "type": ["null", "string"] },
                "percentRemaining": { "type": ["null", "integer"] },
                "supplyState": { "type": ["null", "string"] },
                "status": { "type": ["null", "string"] },
                "coverage": { "type": ["null", "number"] },
                "installDate": { "type": ["null", "number"] },
                "coverageLifetime": { "type": ["null", "number"] },
                "coverageLastJob": { "type": ["null", "number"] },
                "sidesOnSupply": { "type": ["null", "number"] },
                "timestamp": { "type": ["null", "number"] },
                "prebate": { "type": ["null", "boolean"] },
                "genuine": { "type": ["null", "boolean"] },
                "daysLeft": { "type": ["null", "number"] },
                "daysLeftLastUpdated": { "type": ["null", "number"] }
            }
        }
    },
    "alerts": {
        "type": "array",
        "items": {
            "type": "object",
            "properties": {
                "status": { "type": ["null", "string"] },
                "issue": { "type": ["null", "string"] }
            }
        }
    }
}

```



```

    }
  },
  "minItems": 0
},
"pageable": {
  "type": "object",
  "properties": {
    "sort": {
      "type": "object",
      "properties": {
        "sorted": { "type": "boolean" },
        "unsorted": { "type": "boolean" },
        "empty": { "type": "boolean" }
      }
    },
    "pageNumber": { "type": "integer" },
    "pageSize": { "type": "integer" },
    "offset": { "type": "integer" },
    "paged": { "type": "boolean" },
    "unpaged": { "type": "boolean" }
  }
},
"totalElements": { "type": "integer" },
"totalPages": { "type": "integer" },
"last": { "type": "boolean" },
"sort": {
  "type": "object",
  "properties": {
    "sorted": { "type": "boolean" },
    "unsorted": { "type": "boolean" },
    "empty": { "type": "boolean" }
  }
},
"first": { "type": "boolean" },
"numberOfElements": { "type": "integer" },
"size": { "type": "integer" },
"number": { "type": "integer" },
"empty": { "type": "boolean" }
}
}

```

## Sample response

```

{
  "content": [
    {
      "manufacturer": "Lexmark",
      "modelName": "X792e",
      "serialNumber": "123SERIALNUMBER",
      "accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
      "name": null,
      "description": null,
      "dateCreated": 1568139701472,
      "dateModified": 1621677697123,
      "lastCommunication": 1621686886903,
      "lastDataRefresh": 1621677697129,
      "communicating": false,
      "authenticated": true,
      "baseFirmwareLastModifiedDate": null,
      "counters": {
        "lifetimeCount": 6436,
        "lifetimeCountUnit": "Sides",
        "colorPrintSideCount": 464,
        "colorPrintSheetCount": null,
        "monoPrintSideCount": 2636,
        "monoPrintSheetCount": null,
        "printSideCount": 3100,
        "printSheetCount": 3067,
        "colorCopySideCount": 175,
        "colorCopySheetCount": null,
        "monoCopySideCount": 50,
      }
    }
  ]
}

```



```

"monoCopySheetCount": null,
"copySideCount": 225,
"copySheetCount": 217,
"colorFaxSideCount": 99,
"colorFaxSheetCount": null,
"monoFaxSideCount": 2994,
"monoFaxSheetCount": null,
"faxSideCount": 3093,
"faxSheetCount": 3093,
"colorSideCount": 738,
"colorSheetCount": null,
"monoSideCount": 5680,
"monoSheetCount": null,
"totalSideCount": 6418,
"totalSheetCount": 6377,
"colorLargeSideCount": null,
"monoLargeSideCount": null,
"largeSideCount": null,
"largeSheetCount": null,
"duplexSideCount": null,
"duplexSheetCount": 41,
"coverageTierBusinessSideCount": null,
"coverageTierBusinessSheetCount": null,
"coverageTierGraphicsSideCount": null,
"coverageTierGraphicsSheetCount": null,
"coverageTierHighlightSideCount": null,
"coverageTierHighlightSheetCount": null,
"paperCounts": [
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 5370,
    "paperSideColorPickedCount": 586,
    "paperSideColorSafeCount": 700,
    "paperSideMonoPickedCount": 2377,
    "paperSideMonoSafeCount": 4711,
    "paperSize": "Letter",
    "paperType": "Plain"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 3,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 0,
    "paperSideMonoPickedCount": 1,
    "paperSideMonoSafeCount": 3,
    "paperSize": "Letter",
    "paperType": "Custom Type 2"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 23,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 0,
    "paperSideMonoPickedCount": 0,
    "paperSideMonoSafeCount": 23,
    "paperSize": "Oficio",
    "paperType": "Plain"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 24,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 0,
    "paperSideMonoPickedCount": 0,
    "paperSideMonoSafeCount": 24,
    "paperSize": "Legal",
    "paperType": "Plain"
  },
  {
    "paperSheetPickedCount": null,
    "paperSheetSafeCount": 110,
    "paperSideColorPickedCount": 0,
    "paperSideColorSafeCount": 7,

```



```

        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 103,
        "paperSize": "Executive",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 56,
        "paperSideColorPickedCount": 0,
        "paperSideColorSafeCount": 0,
        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 56,
        "paperSize": "Folio",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 52,
        "paperSideColorPickedCount": 0,
        "paperSideColorSafeCount": 0,
        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 52,
        "paperSize": "JIS B5",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 685,
        "paperSideColorPickedCount": 3,
        "paperSideColorSafeCount": 30,
        "paperSideMonoPickedCount": 178,
        "paperSideMonoSafeCount": 655,
        "paperSize": "A4",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 45,
        "paperSideColorPickedCount": 0,
        "paperSideColorSafeCount": 0,
        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 45,
        "paperSize": "A5",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 4,
        "paperSideColorPickedCount": 0,
        "paperSideColorSafeCount": 0,
        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 4,
        "paperSize": "A6",
        "paperType": "Plain"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 1,
        "paperSideColorPickedCount": 0,
        "paperSideColorSafeCount": 0,
        "paperSideMonoPickedCount": 0,
        "paperSideMonoSafeCount": 1,
        "paperSize": "A4",
        "paperType": "Custom Type 2"
    },
    {
        "paperSheetPickedCount": null,
        "paperSheetSafeCount": 4,
        "paperSideColorPickedCount": 1,
        "paperSideColorSafeCount": 1,
        "paperSideMonoPickedCount": 3,
        "paperSideMonoSafeCount": 3,
        "paperSize": "Letter",

```



```

        "paperType": "Transparancy"
    }
},
"blankCopySideCount": 1,
"adfScanCount": 377,
"flatbedScanCount": 722,
"scanToLocalhostScanCount": null,
"copyScanCount": 101,
"faxScanCount": 815,
"simplexAdfScanCount": null,
"duplexAdfScanCount": null,
"monoScanCount": null, "colorScanCount": null,
"totalScanCount": 1099,
"blankFaxSideCount": 0
},
"diagnosticEvents": [
{
    "dateCreated": 1639077580134,
    "alert": "202.03 PAPER JAM: repeated 25 time(s) in 500 pages",
    "alertDttm": 1639077580134,
    "alertId": "61b25b2cc036774096bbef91",
    "alertType": "Prescriptive",
    "collectorId": "CBR01",
    "errorCode": "202.03",
    "errorReason": "HC_REP",
    "errorType": "%202.03%",
    "expirationDttm": 1313123,
    "hostname": "10.99.0.60",
    "ipAddress": "10.99.0.60",
    "lpc": 505535,
    "model": "LEXMARK CX825",
    "serialNumber": "12345SERIALNUMBER"
}
],
"supplies": [
{
    "serialNumber": "SUPPLY123",
    "currentLevel": 50,
    "color": "none",
    "description": "Fuser",
    "maximumCapacity": 150000,
    "type": "Fuser",
    "capacityUnit": "Sides",
    "percentRemaining": null,
    "supplyState": "UNKNOWN",
    "status": "Intermediate",
    "coverage": null,
    "installDate": null,
    "coverageLifetime": null,
    "coverageLastJob": null,
    "sidesOnSupply": null,
    "timestamp": 1621674025055,
    "prebate": null,
    "genuine": null,
    "daysLeft": null,
    "daysLeftLastUpdated": null
}
],
"alerts": []
},
{
    "manufacturer": "Lexmark",
    "modelName": "X792e",
    "serialNumber": "123SERIALNUMBER",
    "accountId": "bf899e52-b026-46f3-9715-fe54b5dd7637",
    "name": null,
    "description": null,
    "dateCreated": 1568139701472,
    "dateModified": 1621677697123,
    "lastCommunication": 1621686886903,
    "lastDataRefresh": 1621677697129,
    "communicating": false,
    "authenticated": true,

```



```
"baseFirmwareLastModifiedDate": 1621686886903,
"counters": {
  "lifetimeCount": null,
  "lifetimeCountUnit": null,
  "colorPrintSideCount": 104,
  "colorPrintSheetCount": null,
  "monoPrintSideCount": 201,
  "monoPrintSheetCount": null,
  "printSideCount": 305,
  "printSheetCount": 305,
  "colorCopySideCount": 77,
  "colorCopySheetCount": null,
  "monoCopySideCount": 0,
  "monoCopySheetCount": null,
  "copySideCount": 77,
  "copySheetCount": null,
  "colorFaxSideCount": 0,
  "colorFaxSheetCount": null,
  "monoFaxSideCount": 0,
  "monoFaxSheetCount": null,
  "faxSideCount": 0,
  "faxSheetCount": null,
  "colorSideCount": 181,
  "colorSheetCount": null,
  "monoSideCount": 201,
  "monoSheetCount": null,
  "totalSideCount": 382,
  "totalSheetCount": null,
  "colorLargeSideCount": 0,
  "monoLargeSideCount": 0,
  "largeSideCount": 0,
  "largeSheetCount": null,
  "duplexSideCount": 0,
  "duplexSheetCount": null,
  "coverageTierBusinessSideCount": null,
  "coverageTierBusinessSheetCount": null,
  "coverageTierGraphicsSideCount": null,
  "coverageTierGraphicsSheetCount": null,
  "coverageTierHighlightSideCount": null,
  "coverageTierHighlightSheetCount": null,
  "paperCounts": [],
  "blankCopySideCount": null,
  "adfScanCount": null,
  "flatbedScanCount": null,
  "scanToLocalhostScanCount": null,
  "copyScanCount": null,
  "faxScanCount": null,
  "simplexAdfScanCount": null,
  "duplexAdfScanCount": null,
  "monoScanCount": null,
  "colorScanCount": null,
  "totalScanCount": null,
  "blankFaxSideCount": null
},
"diagnosticEvents": [],
"supplies": [
  {
    "serialNumber": null,
    "currentLevel": 100,
    "color": "none",
    "description": "Waste Toner Bottle",
    "maximumCapacity": 200000,
    "type": "Waste Toner",
    "capacityUnit": "Sides",
    "percentRemaining": null,
    "supplyState": "UNKNOWN",
    "status": "Ok",
    "coverage": null,
    "installDate": null,
    "coverageLifetime": null,
    "coverageLastJob": null,
    "sidesOnSupply": null,
    "timestamp": 1621674025052,
  }
]
```



```
"prebate": null,
"genuine": null,
"daysLeft": null,
"daysLeftLastUpdated": null
},
{
  "serialNumber": null,
  "currentLevel": 100,
  "color": "none",
  "description": "Separator Roll and Pick Assembly",
  "maximumCapacity": 120000,
  "type": "Other",
  "capacityUnit": "Other",
  "percentRemaining": null,
  "supplyState": "UNKNOWN",
  "status": "Ok",
  "coverage": null,
  "installDate": null,
  "coverageLifetime": null,
  "coverageLastJob": null,
  "sidesOnSupply": null,
  "timestamp": 1621674025053,
  "prebate": null,
  "genuine": null,
  "daysLeft": null,
  "daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLY1",
  "currentLevel": 50,
  "color": "none",
  "description": "Fuser",
  "maximumCapacity": 150000,
  "type": "Fuser",
  "capacityUnit": "Sides",
  "percentRemaining": null,
  "supplyState": "UNKNOWN",
  "status": "Intermediate",
  "coverage": null,
  "installDate": null,
  "coverageLifetime": null,
  "coverageLastJob": null,
  "sidesOnSupply": null,
  "timestamp": 1621674025055,
  "prebate": null,
  "genuine": null,
  "daysLeft": null,
  "daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLY2",
  "currentLevel": 5,
  "color": "Yellow",
  "description": "Yellow Cartridge",
  "maximumCapacity": 20000,
  "type": "Toner",
  "capacityUnit": "Sides",
  "percentRemaining": null,
  "supplyState": "UNKNOWN",
  "status": "Low",
  "coverage": 0.028,
  "installDate": 1568701948000,
  "coverageLifetime": 6.198895,
  "coverageLastJob": 15,
  "sidesOnSupply": 31355,
  "timestamp": 1621674025056,
  "prebate": true,
  "genuine": null,
  "daysLeft": null,
  "daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLY3",
```



```
"currentLevel": 100,
"color": "none",
"description": "Transfer Module",
"maximumCapacity": 200000,
"type": "Other",
"capacityUnit": "Other",
"percentRemaining": null,
"supplyState": "UNKNOWN",
"status": "Ok",
"coverage": null,
"installDate": null,
"coverageLifetime": null,
"coverageLastJob": null,
"sidesOnSupply": null,
"timestamp": 1621674025057,
"prebate": null,
"genuine": null,
"daysLeft": null,
"daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLY4",
  "currentLevel": 80
  "color": "Magenta",
  "description": "Magenta Cartridge",
  "maximumCapacity": 6000,
  "type": "Toner",
  "capacityUnit": "Sides",
  "percentRemaining": null,
  "supplyState": "AUTHENTIC",
  "status": "Intermediate",
  "coverage": 2.872,
  "installDate": 1568701948000,
  "timestamp": 1621674025073,
  "prebate": true,
  "genuine": null,
  "daysLeft": null,
  "daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLY5",
  "currentLevel": 80,
  "color": "Black",
  "description": "Black Cartridge",
  "maximumCapacity": 20000,
  "type": "Toner",
  "capacityUnit": "Sides",
  "percentRemaining": null,
  "supplyState": "AUTHENTIC",
  "status": "Intermediate",
  "coverage": 0.514,
  "installDate": 1568701948000,
  "coverageLifetime": 6.0445027,
  "coverageLastJob": 74,
  "sidesOnSupply": 1957,
  "timestamp": 1621674025074,
  "prebate": true,
  "genuine": null,
  "daysLeft": null, "daysLeftLastUpdated": null
},
{
  "serialNumber": "SUPPLY6",
  "currentLevel": 20,
  "color": "Cyan",
  "description": "Cyan Cartridge",
  "maximumCapacity": 12000,
  "type": "Toner",
  "capacityUnit": "Sides",
  "percentRemaining": null,
  "supplyState": "UNKNOWN",
  "status": "Intermediate",
  "coverage": 0.194,
  "installDate": 1568701948000,
```



```
        "coverageLifetime": 7.331492,
        "coverageLastJob": 21,
        "sidesOnSupply": 4688,
        "timestamp": 1621674025075,
        "prebate": true,
        "genuine": null,
        "daysLeft": null,
        "daysLeftLastUpdated": null
      }
    ],
    "alerts": [
      {
        "status": "WARNING",
        "issue": "Yellow cartridge low "
      },
      {
        "status": "WARNING",
        "issue": "Tray 1 Low "
      }
    ]
  }
],
"pageable": {
  "sort": {
    "sorted": false,
    "unsorted": true,
    "empty": true
  },
  "pageNumber": 0,
  "pageSize": 50,
  "offset": 0,
  "paged": true,
  "unpaged": false
},
"totalElements": 2,
"totalPages": 1,
"last": false,
"sort": {
  "sorted": false,
  "unsorted": true,
  "empty": true
},
"first": true,
"numberOfElements": 50,
"size": 50,
"number": 0,
"empty": false
}
```



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July 2024

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