



# Lexmark Cloud Services

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## Administrator's Guide

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# Change history

## Change history

### September 2024

Added the following information:

- **Fleet Management**
  - Added information on scheduling recurring tasks.
  - Added information on new Cloud Fleet Management roles.
- **Analytics**
  - Added information on categorization of Cloud Fleet Management Reports and Cloud Print Management Reports.

### 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**

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- 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.

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- 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**

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- 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:



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- **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.

## September 2024 release

### Fleet Management

- You can schedule recurring tasks and configure them according to the requirement. Recurring tasks can only be created for individual organization. For more information, see [Managing tasks on page 359](#).
- In Cloud Fleet Management, the Fleet Management Viewer role has some basic roles like viewing the list of printers, printer details page, and applications. For more information, see [Understanding roles on page 236](#).

### Analytics

- On accessing Analytics 2.0, you can view that reports are categorized into Cloud Fleet Management Reports and Cloud Print Management Reports. For more information, see [Accessing the Analytics web portal on page 409](#).

## 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 268](#).

### 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 380](#).

## 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 350](#).

## April 2024 release

### Fleet Management

- Cloud Fleet Management offers remote device monitoring and management. For more information, see "Fleet Management" chapter.

### Solution Quota Manager

- Solution Quota Manager manages distribution of pages and sets quotas for organizations and users. For more information, see "Solution Quota" chapter.

## 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" group.

### 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" group.

### Print Management

- On the Organizational Settings page, you can now enable e-mail submission. For more information, see [Configuring organizational settings on page 363](#).

### 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 445](#).

## 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 346](#).
- While creating a configuration, you can now import printer settings from existing VCC files. For more information, see [Creating a configuration on page 341](#).

## 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 341](#).
- 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 336](#).

### 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 397](#).

## November 2023 release

### Fleet Management

- While creating a configuration, you can configure various printer settings. For more information, see [Creating a configuration on page 341](#).

### Scan Management

- You can now select Dropbox as one of the scan destinations. For more information, see [Managing scan destinations on page 404](#).

## 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" group.

### 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 290](#).
- 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 350](#).

### 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 371](#).

## What's new

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- You can enable automatic updates for Lexmark Print Management Client. For more information, see [Enabling automatic updates for Lexmark Print Management Client on page 382](#).
- 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" group.

### 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 442](#).

## 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 [Adding printers to MPS Express on page 353](#).
- You can update applications through the Printers page. For more information, see [Managing applications on page 330](#).

### 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 474](#).

## 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 402](#).

### 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 397](#).
- 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 353](#).

### 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" chapter.

### 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" chapter.

## 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 350](#).

# 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 298](#).

# October 2022 release

## Scan Management

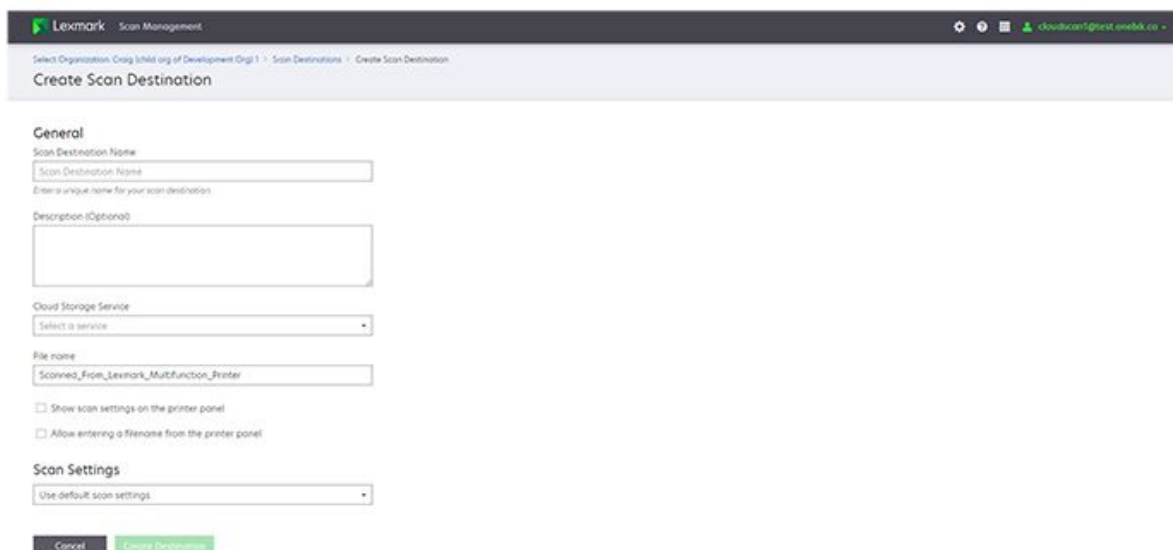
Scan Management is a Lexmark Cloud service that provides a direct scan-to-cloud solution. Your organization can send scan jobs to the OneDrive and SharePoint cloud service providers securely. Scanned files are sent directly to the designated destination and do not pass or get stored in Lexmark Cloud 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 402](#).
- Configure the Scan Management settings. For more information, see [Configuring the Scan Management settings on page 402](#).
- Manage scan destinations using OneDrive, Google Drive, and SharePoint cloud storage services. For more information on scan destinations, see [Managing scan destinations on page 404](#).



## What's new

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- 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 407](#).

### 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" chapter.

### 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" group.



# 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.

## Overview

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- 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

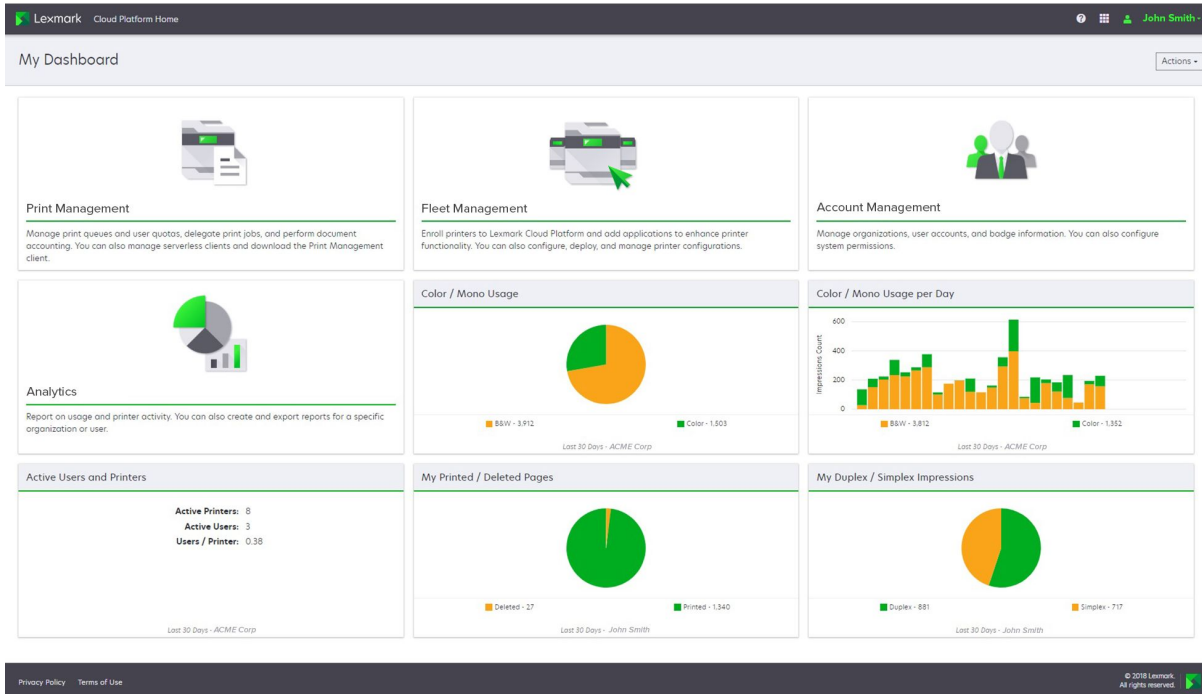
The dashboard provides quick access to the web portals and the cards that contain usage and status information. You can create and customize up to 10 dashboards, and each dashboard can contain up to 24 cards. The dashboard view is customizable. You can add, hide, move, or rename the cards.

The available web portals and cards depend on your assigned role. For more information on the roles, see [Understanding roles on page 236](#).

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

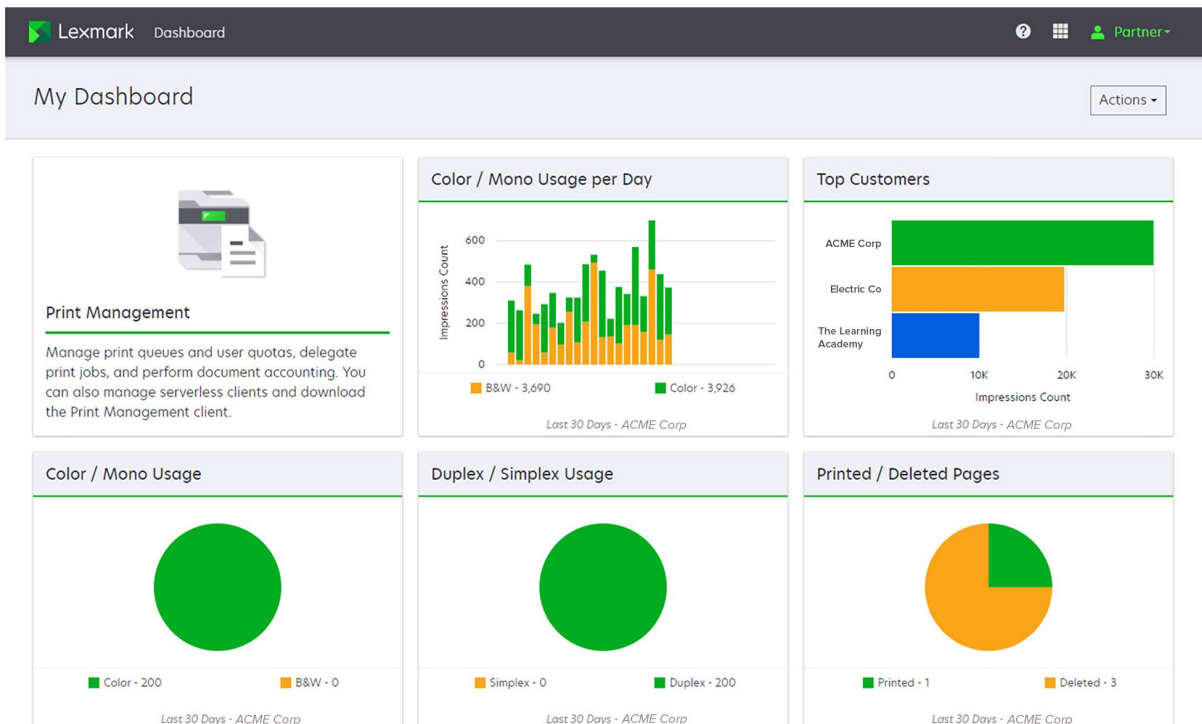
**Note:** Refresh the cards by clicking . The cards on the dashboard automatically refresh after every five minutes.

### Organization Administrator Dashboard



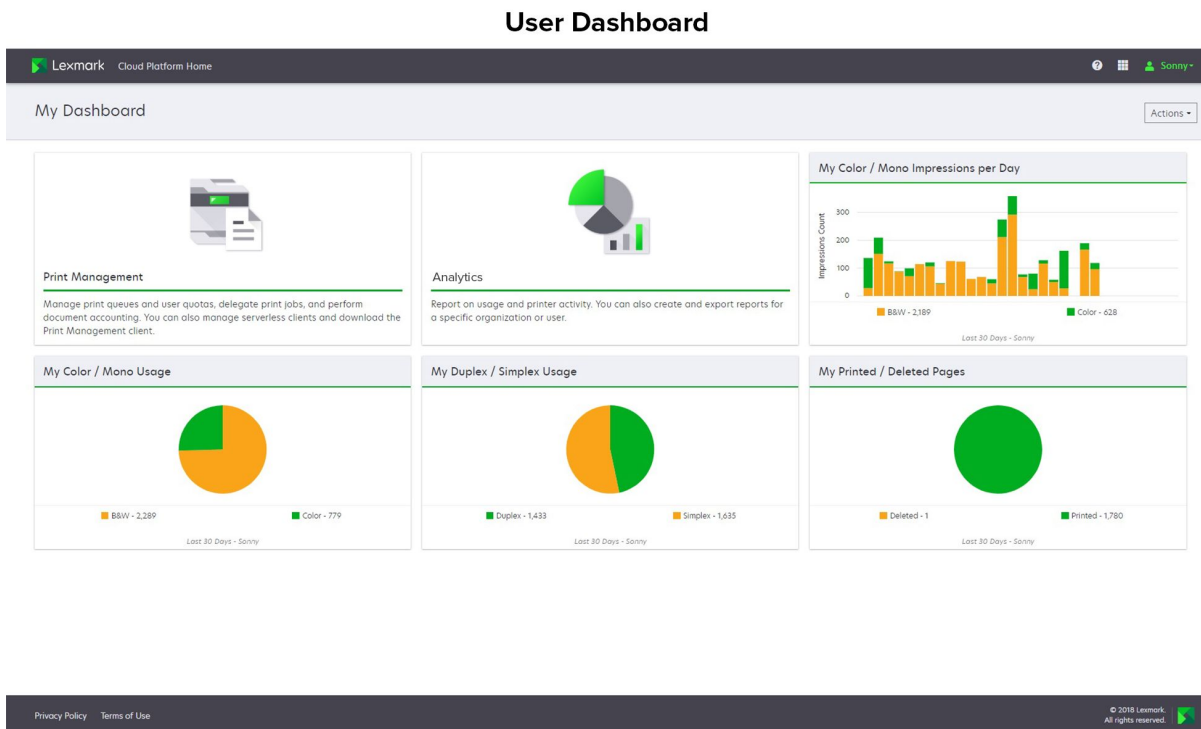
Organization administrators can add cards that are specific to the organization, such as active users and printers. They can also add cards showing their own print usage, Fleet Agent status, printer communication status, and fleet status.

### Partner Administrator Dashboard



## Getting started

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.



Users can view their own printer usage.

## Creating a dashboard

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

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

## Setting a default dashboard

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

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**.

## 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

### 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.

1. From the dashboard, click **Actions**.
2. Click **Add Card**.
3. Select a card type.
4. Update the card name.
5. If you are a partner administrator, then select an organization.
6. Click **Add Card**.

### Edit cards

1. From the dashboard, click **Actions**.
2. Click **Edit Cards**.
3. 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.

4. Click **Done**.

## Change the view

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

# Preparing for configuration

## Deployment readiness checklist

- 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.

### 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 285](#).



## Preparing for configuration

- 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 53](#).
  - 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.

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
Identity Provider	All customers	b2ccustomizationsprodsa.blob.core.window

## Preparing for configuration

Function	Used by	Host
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	prodwesteucloudk8s54.blob.core.window
CFM File Storage	All customers	prodwesteucloudk8s54.iss.lexmark.com
CCS	All customers	ccs.lexmark.com
CDN	All customers	ccs-cdn.lexmark.com
CPM File Storage	CPM only	prodwesteucloudk8s199.blob.core.window
CPM File Storage	CPM only	prodwesteucloudk8s199.iss.lexmark.co
LPM	Legacy CPM only	lpm.eu.iss.lexmark.com
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.window
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

Function	Used by	Host
CFM	Native Agent only	global.azure-devices-provisioning.net
CFM File Storage	All customers	prodlexcloudk8s239.blob.core.windows.net
CFM File Storage	All customers	prodlexcloudk8s239.iss.lexmark.com
CCS	All customers	ccs.lexmark.com
CDN	All customers	ccs-cdn.lexmark.com
CPM File Storage	CPM only	prodlexcloudk8s19.blob.core.windows.net
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	Cloud Print Management	Authentication method	Cloud Print Release					
	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

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	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
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	✓	✓

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	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 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
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

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	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 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
Lexmark CX622, CX622ade, CX625, CX625ade, CX625adhe	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark CX725, CX725ade, CX727	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark CX730de, CX735de	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark CX820, CX820de, CX825, CX825de, CX827, CX860	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	Cloud Print Management	Authentication method	Choice 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	X
Lexmark M1342	X	✓	✓	✓	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
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	X

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	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 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
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 MB2236adw	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MB2236adwe	X	✓	✓	✓	X	X	X	X	✓	✓
Lexmark MB2338	X	✓	✓	✓	X	X	X	X	X	X



## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	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 MB2442	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MB2546	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark MB2650	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
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	✓	✓
Lexmark MS331	X	✓	✓	✓	X	X	X	X	X	X
Lexmark MS421	X	✓	✓	✓	X	X	X	X	X	X

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	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 MS431	X	✓	✓	✓	X	X	X	X	X	X	X
Lexmark MS521 dn	X	✓	✓	✓	X	X	X	X	X	X	X
Lexmark MS610de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	✓	X
Lexmark MS621	X	✓	✓	✓	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	X
Lexmark MS821n, MS821dn	X	✓	✓	✓	X	X	X	X	X	X	X
Lexmark MS823	X	✓	✓	✓	X	X	X	X	X	X	X
Lexmark MS823n, MS823 dn	X	✓	✓	✓	X	X	X	X	X	X	X
Lexmark MS825	X	✓	✓	✓	X	X	X	X	X	X	X
Lexmark MS825dn	X	✓	✓	✓	X	X	X	X	X	X	X
Lexmark MS822, MS826	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	X
Lexmark MS911de <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	✓	X

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	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 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	✓	✓
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

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	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 MX721, MX722, MX725	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
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

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	Cloud Print Management	Authentication method	Choice 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
Lexmark XC8155, XC8160, XC8163	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XC9225, XC9235	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	Cloud Print Management	Authentication method	Choice Print Release						
	Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent	Badge	User ID	PIN				
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
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

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	Cloud Print Management	Authentication method	Choice Print Release					
Printer Agent	Fleet Agent <sup>1</sup>	Native Agent <sup>2</sup>	Local Agent	Badge	User ID	PIN				
Lexmark XM7355b	✓	✓	✓	✓	✓	✓	✓	✓	✓	X
Lexmark XM9145 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
Lexmark XM9155, XM9165 <sup>3</sup>	✓	✓	X	✓	X	✓	✓	✓	✓	X
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	✓	✓
Lexmark XC2335	✓	✓	✓	✓	✓	✓	✓	✓	✓	X

## Preparing for configuration

Printer models	Cloud Fleet Management	Cloud Scan Management	Cloud Print Management	Authentication method	Choice Print Release					
	Fleet Agent	Native Agent <sup>2</sup>	Local Agent	Badge	User ID	PIN				
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	✓	✓
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 53](#).

<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 . For information on updating firmware in your printer, see [Updating printer firmware from the Embedded Web Server on page 53](#). [Viewing the printer firmware version on page 53](#)

## 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.

- Browse to the flash file.

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

- 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" group
  - Set how users authenticate with Lexmark Cloud Services and default user roles.
  - For channel partners, create customer (child) organizations.
- "Add and edit your users" group
  - Create user accounts and set system permissions.
- "Enroll your printers" group
  - Register printers with Lexmark Cloud Services and enable remote management.
  - Select the agents to use.
- "Deploy applications and configure your printers" group
  - Remotely configure printers with eSF applications and device settings using Cloud Fleet Management tools.
- "Customize your print environment" group

**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" group
  - 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.

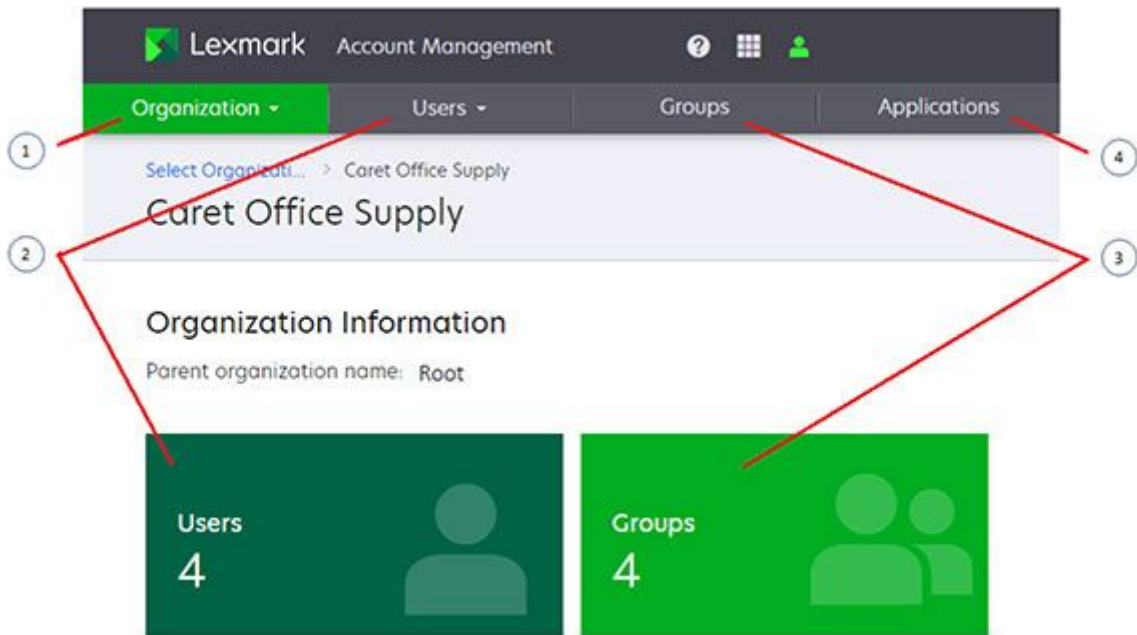
- Will users in the channel partner organization need access to child organizations?
- Who will perform the ongoing management of users in the child organization?
- Will Cloud Print Management be used in the child organization?
  - Will the channel partner or someone from the end customer manage Cloud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

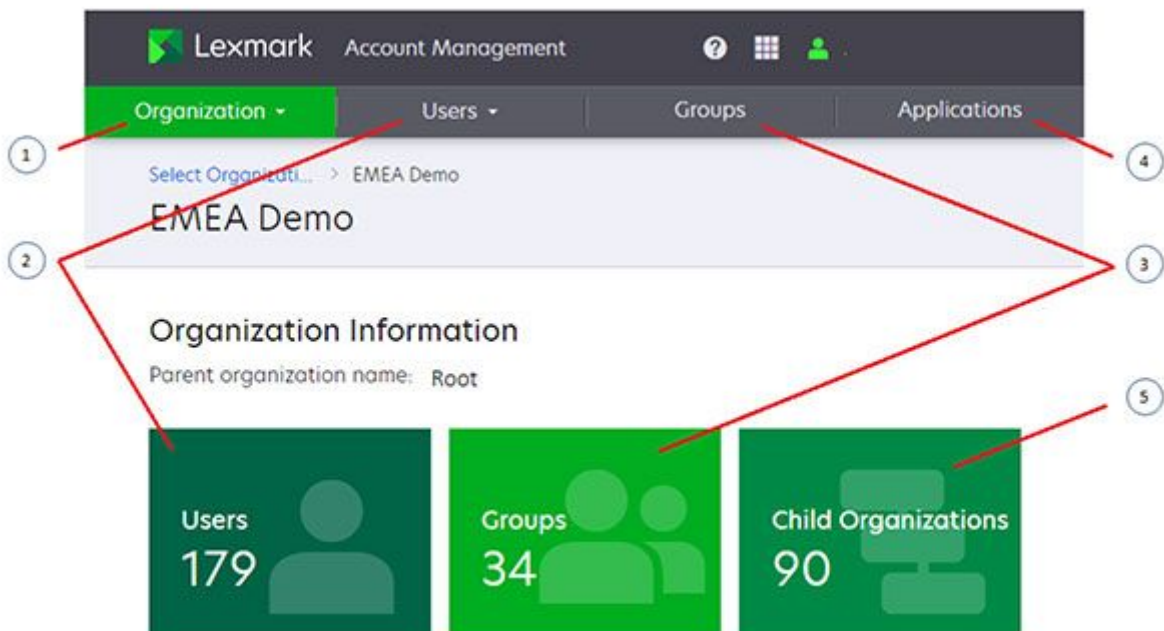
**Note:** A user must have either the Organization Administrator or User Administrator role to access the Account Management portal.

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.

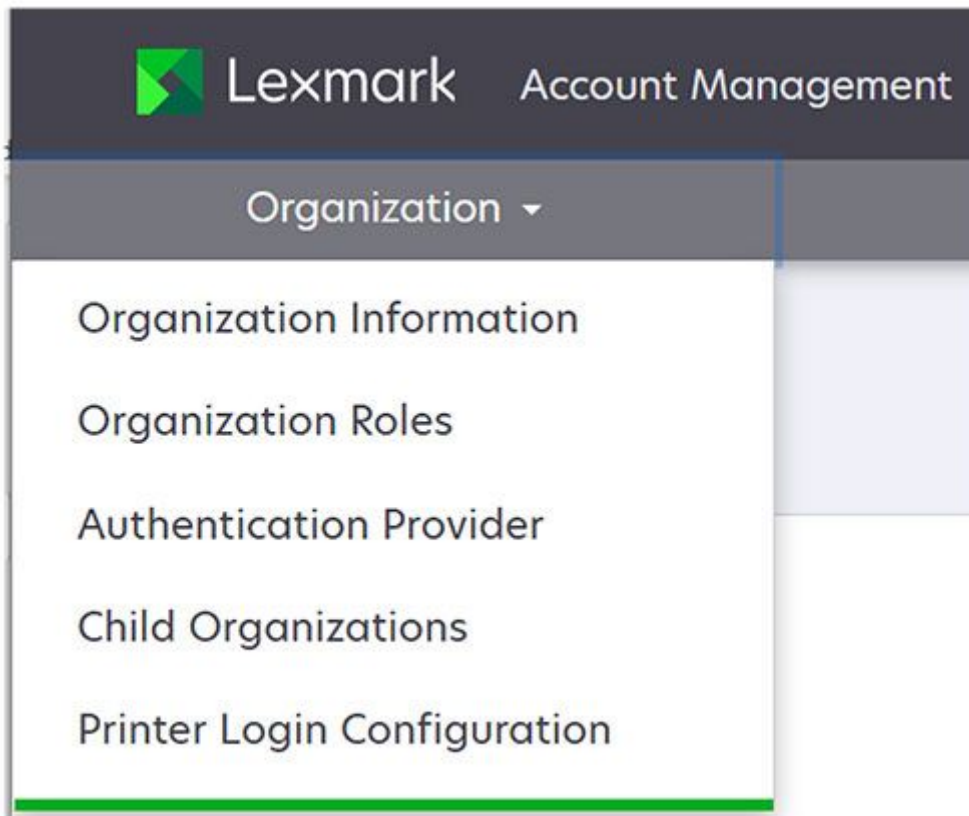
4. The **Applications** tab:
  - Shows the list of installed applications that provide authentication credentials for devices without user credentials, such as Fleet Management Printer Agent and Cloud Print Management
5. The **Child organizations** card:
  - Shows the list of child organizations under 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" group.

## 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.

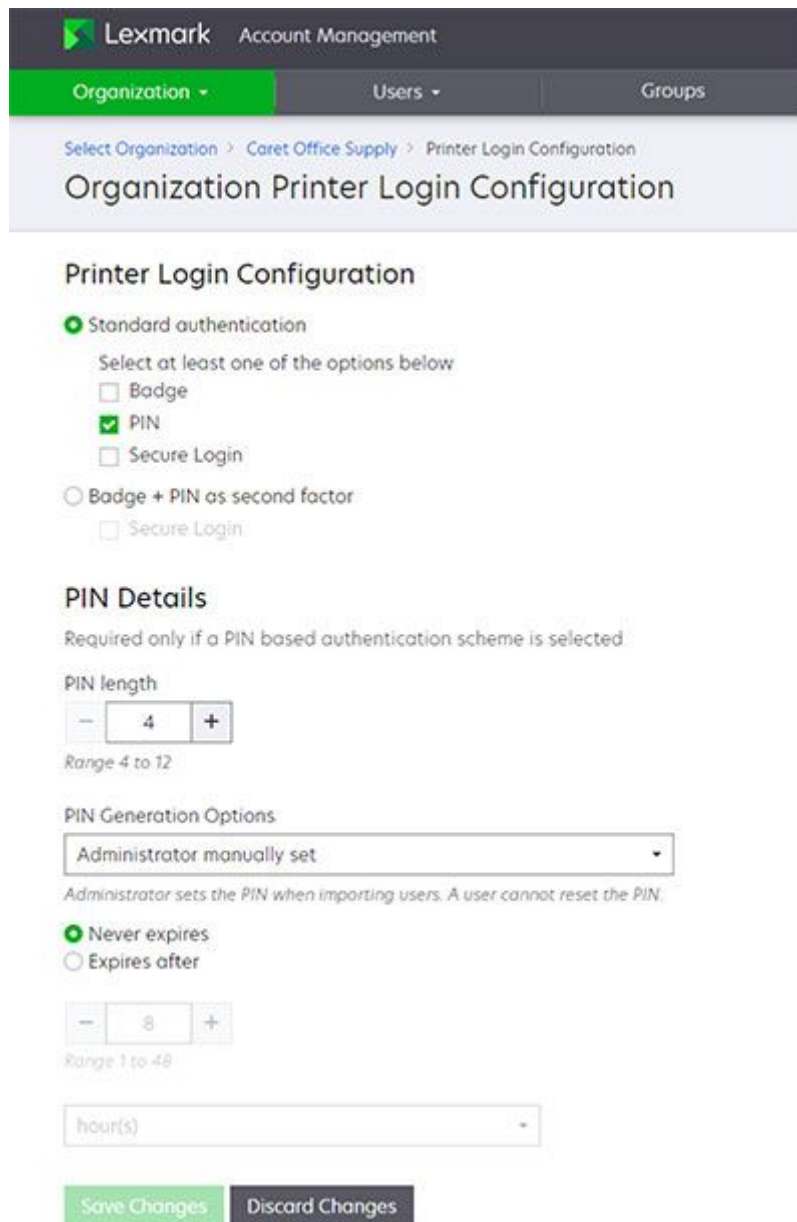
1. From the Account Management web portal, click **Organization > Printer Login Configuration**.



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:





## Standard authentication

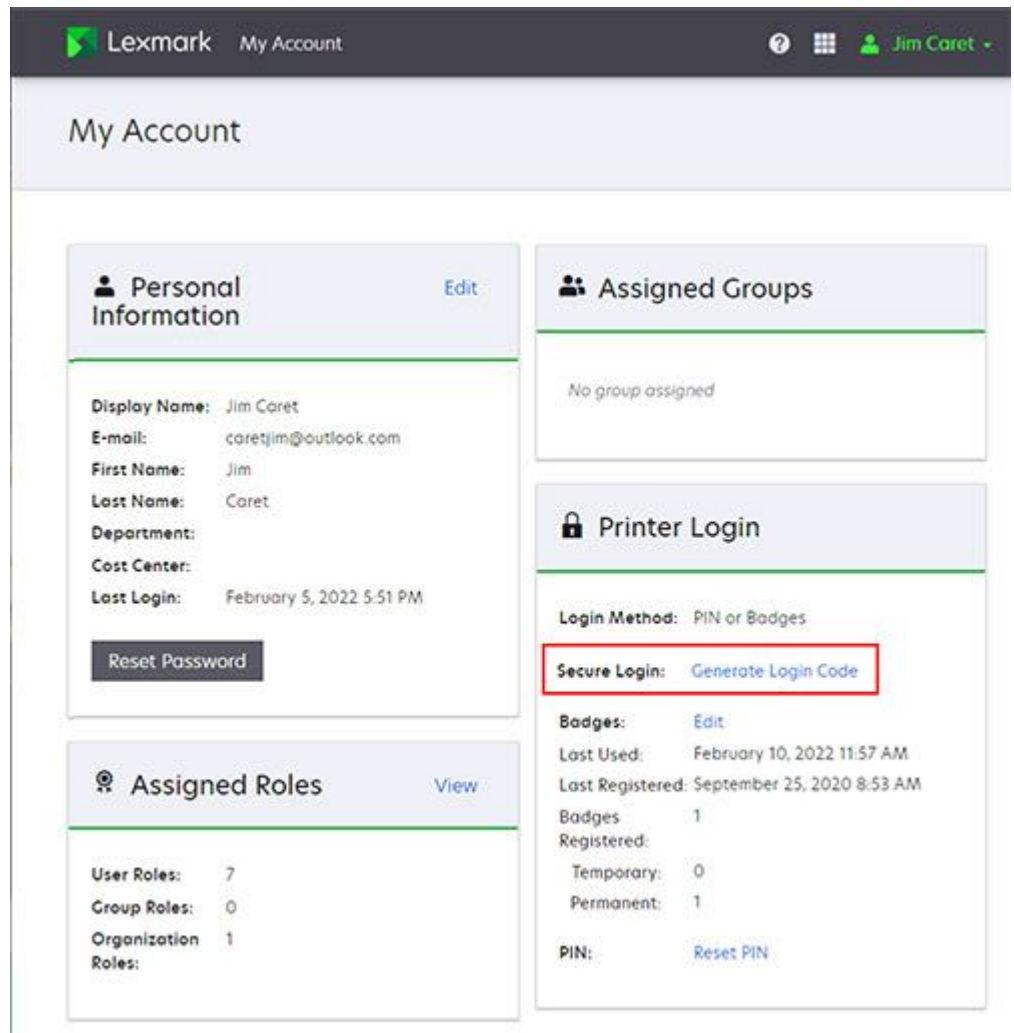
One or more of the standard authentication methods can be enabled at the same time.

- **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 281](#).
- **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 282](#).

**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 [Configuring printer login on page 279](#).
  - 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 is a navigation bar with the Lexmark logo, 'My Account', and a user profile for 'Jim Caret'. The main content area is divided into several 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 located at the bottom of this section.
- Assigned Groups:** Shows 'No group assigned'.
- Assigned Roles:** Shows a summary of roles: User Roles: 7, Group Roles: 0, Organization Roles: 1.
- 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

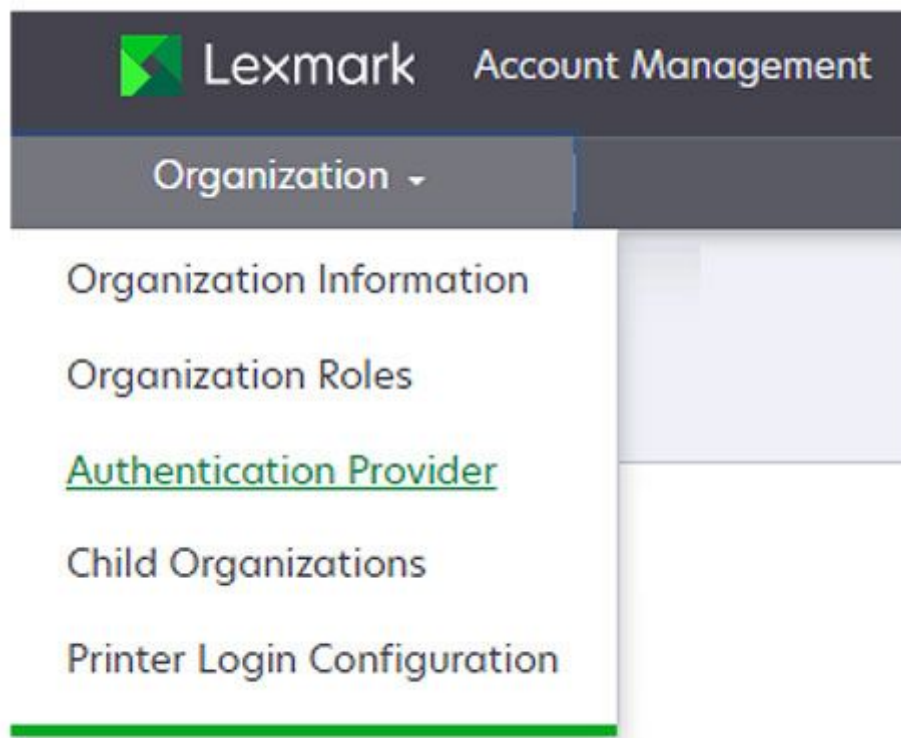
Federation is the process of creating a trust relationship between a customer's identity provider (IDP) and an external service, such as Lexmark Cloud Services. The identity provider can be Microsoft Azure Active Directory (Azure AD), Google Identity, or any other Security Assertion Markup Language (SAML)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

*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)

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.

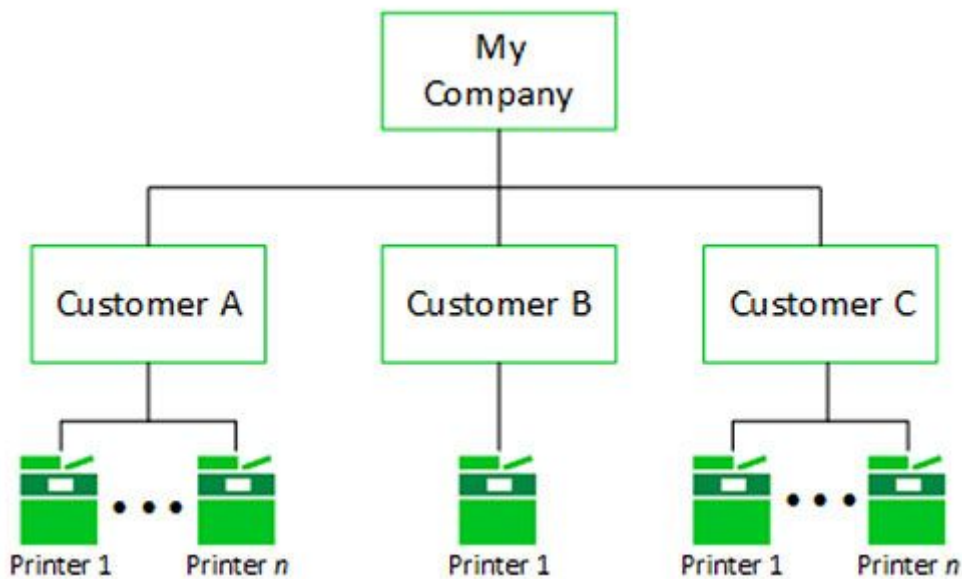
**Note:** You must have the Partner Administrator role to create and manage child organizations. For more information, see "Partner administrator" group.

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

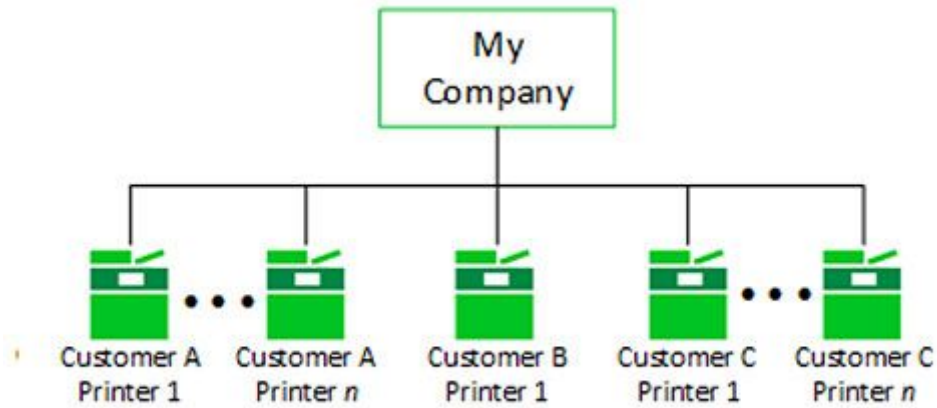
There are two ways of organizing your customers' printers: a hierarchical structure or a flat structure. The structure you choose determines whether child organizations are needed.

**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.



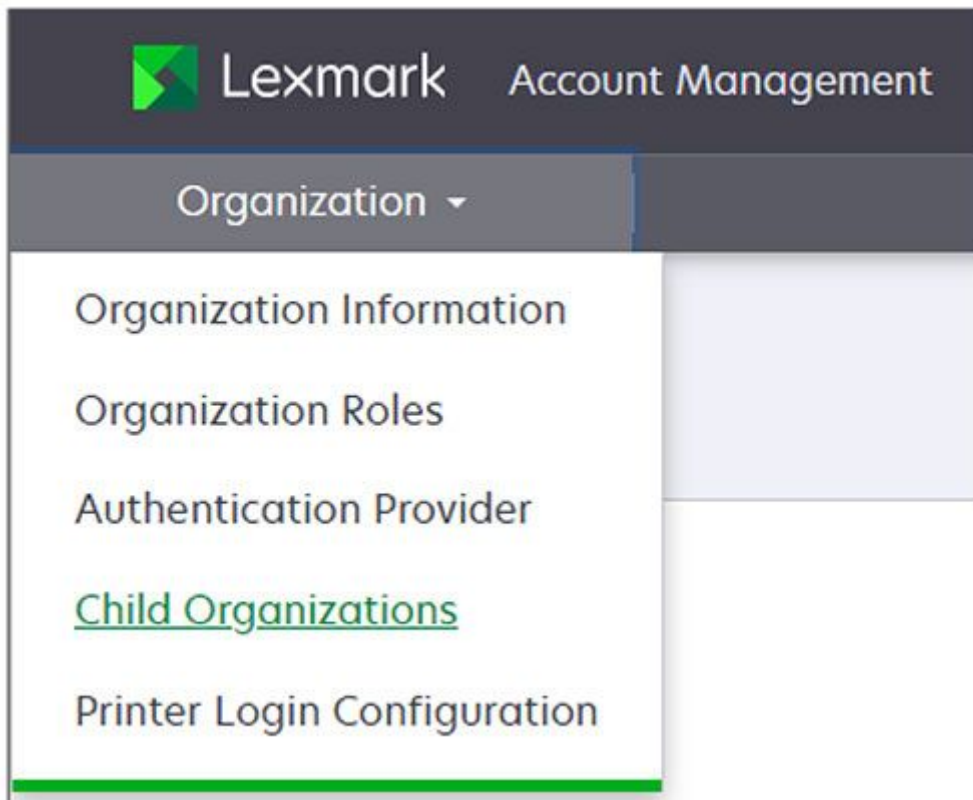
**Flat structure**—A flat structure places all printers from all customers in a single structure. Any future Lexmark Cloud Services capabilities added to one customer are available to all.



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.
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.

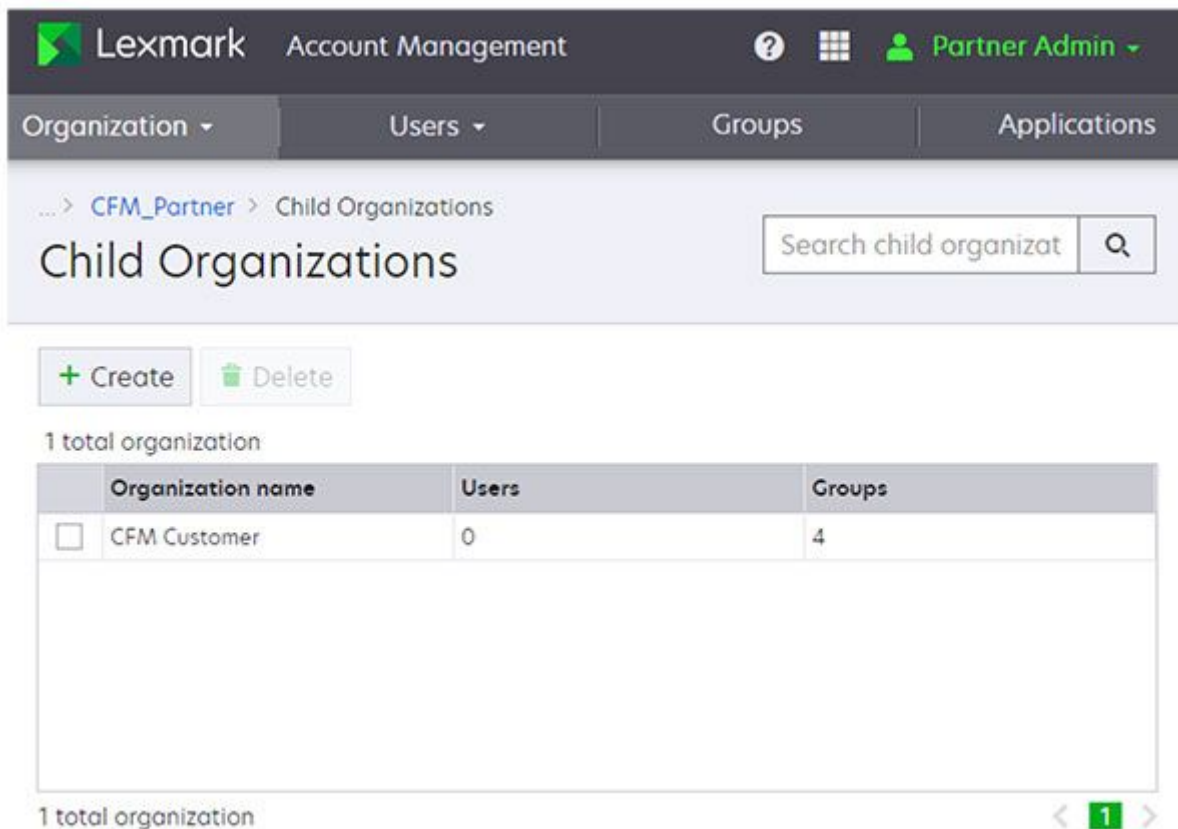
**Creating a child organization**

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



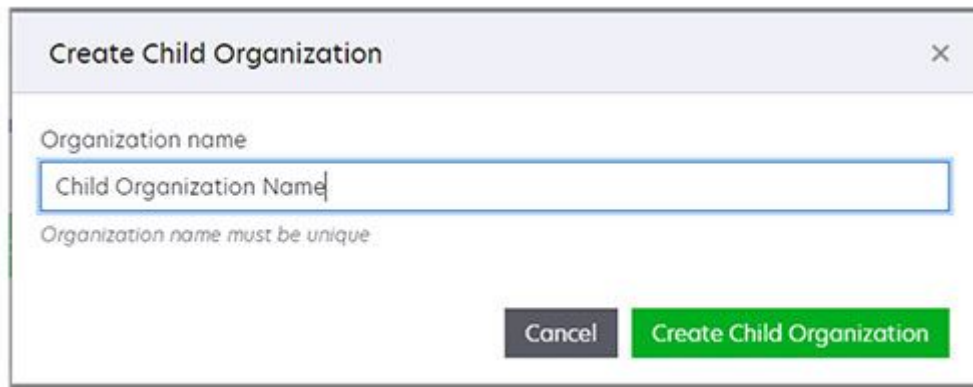
2. Click **Create**.

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





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

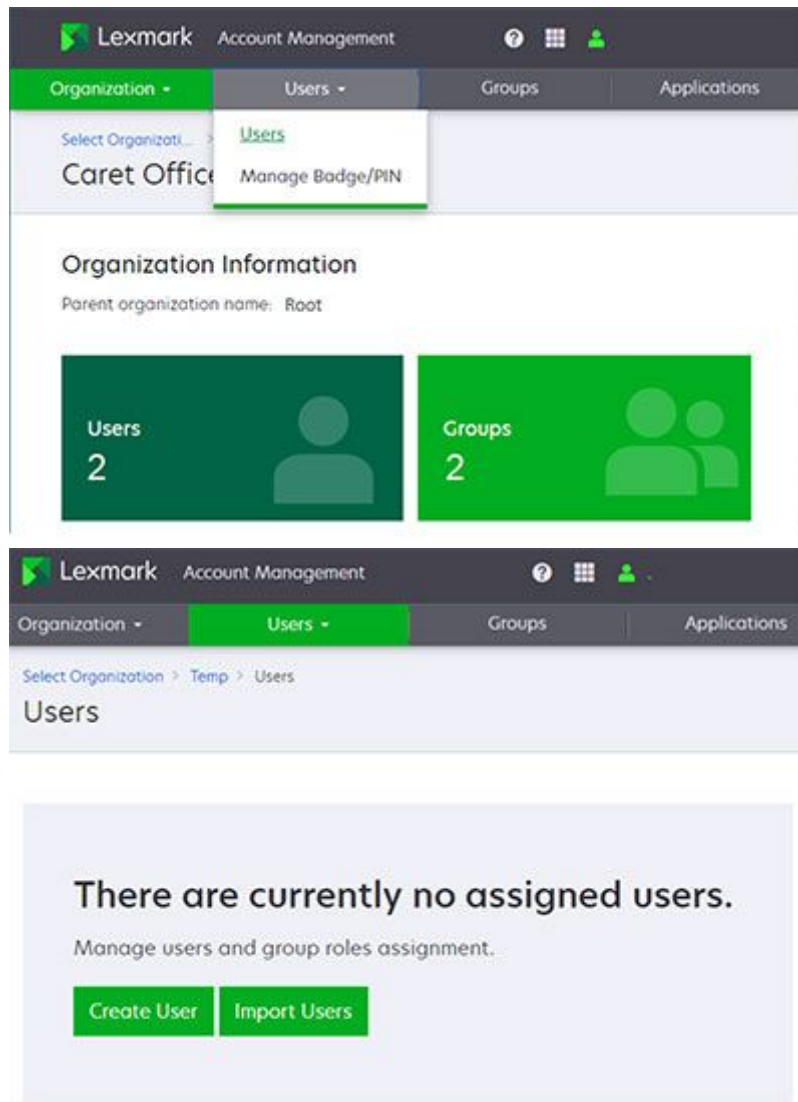
- Using the Add User form in the Account Management portal
- Importing users using a file in the Account Management portal
- Using federated identity management

### 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

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

**Create User** **Cancel**

The screenshot shows the 'Create User' form in the Lexmark Account Management interface. The breadcrumb trail is 'Select Organization > EMEA Demo > Users > Create User'. The form includes the following fields and options:

- E-mail:** A text input field with a note below it: 'E-mail must be unique'.
- First Name:** A text input field.
- Last Name:** A text input field.
- Display Name:** A text input field.
- Department:** A text input field.
- Cost Center:** A text input field.
- Set Password:** Two radio button options: 'E-mail a link to change the password' (which is selected) and 'Set password manually'.
- Password Requirements:** A note stating 'Password must be at least 8 characters long and contain' followed by a bulleted list:
  - A lowercase character
  - An uppercase character
  - A number (0-9)
  - A special character (–!@#%&\*+\_~+= |{}[]-'"<>.,?)
- Show Password:** A checkbox that is currently unchecked.
- Buttons:** A green 'Create User' button and a grey 'Cancel' button.

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 243](#). 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 236](#).

## 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 239](#).

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

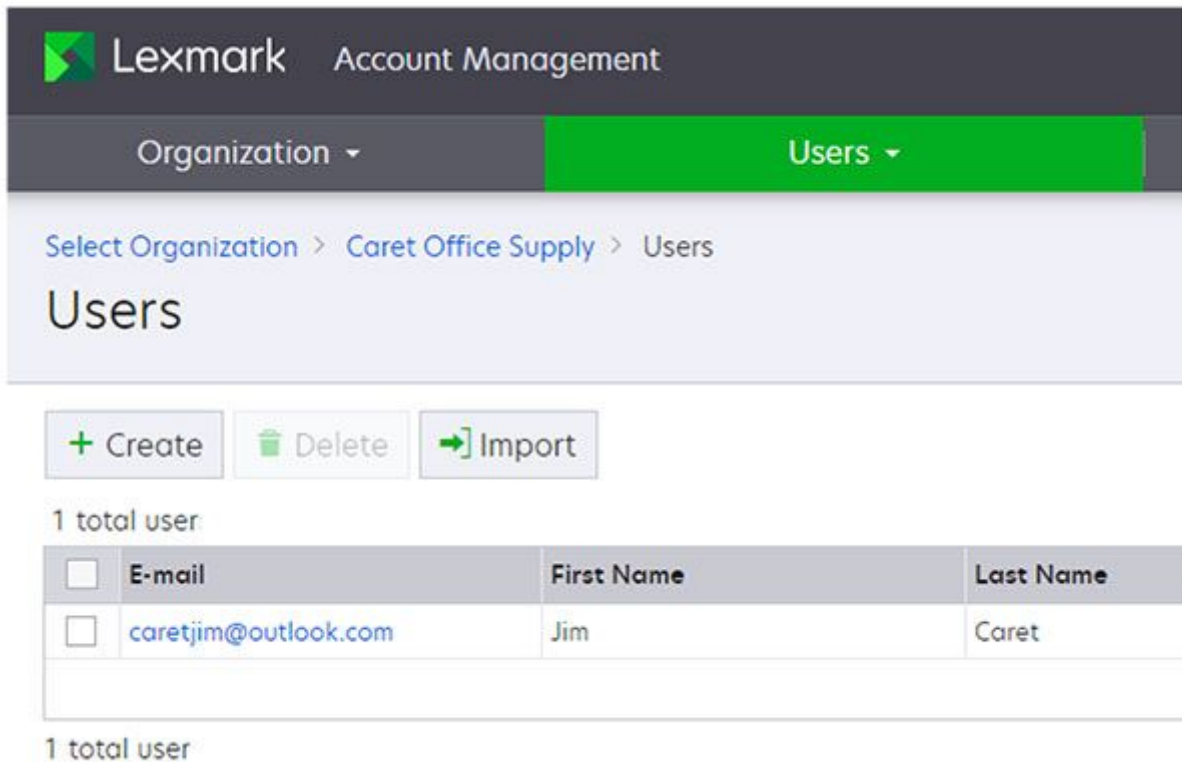
Submitted print jobs are held on the user's workstation until the user releases it at a Cloud Print Management–enabled printer that uses Hybrid Print Management.

- 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

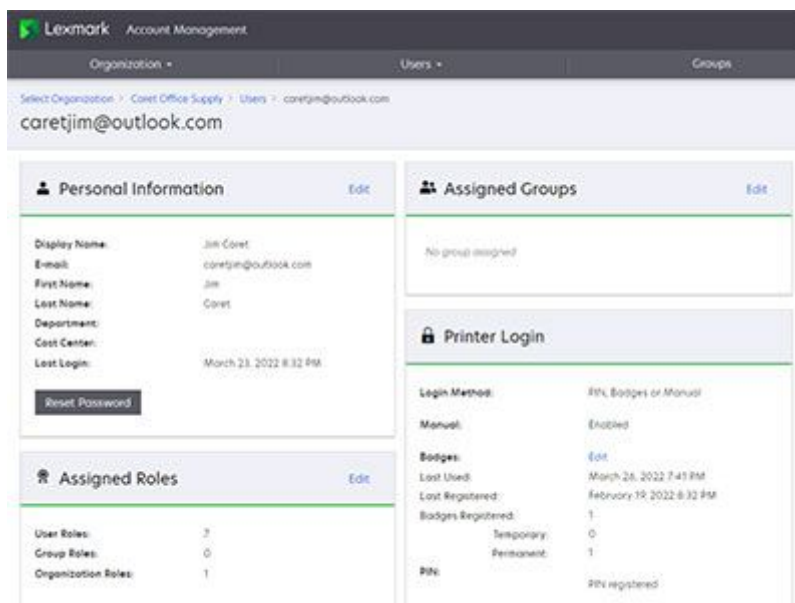
+ Create Delete Import

1 total user

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

1 total user

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



Lexmark Account 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 Roles Edit

User Roles:	2
Group Roles:	0
Organization Roles:	1

#### Assigned Groups Edit

No group assigned

#### Printer Login

Login Method: 9th, 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: 9th registered

4. Do the following:

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

Lexmark Account Management

Organization ▾ Users ▾ Groups

Select Organization > Coret Office Supply > Users > coretjm@outlook.com > Assigned Roles > Assign Roles

### Assign Roles

#### System Roles

1 of 4 roles selected

<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

#### Custom Roles

4 of 11 roles selected

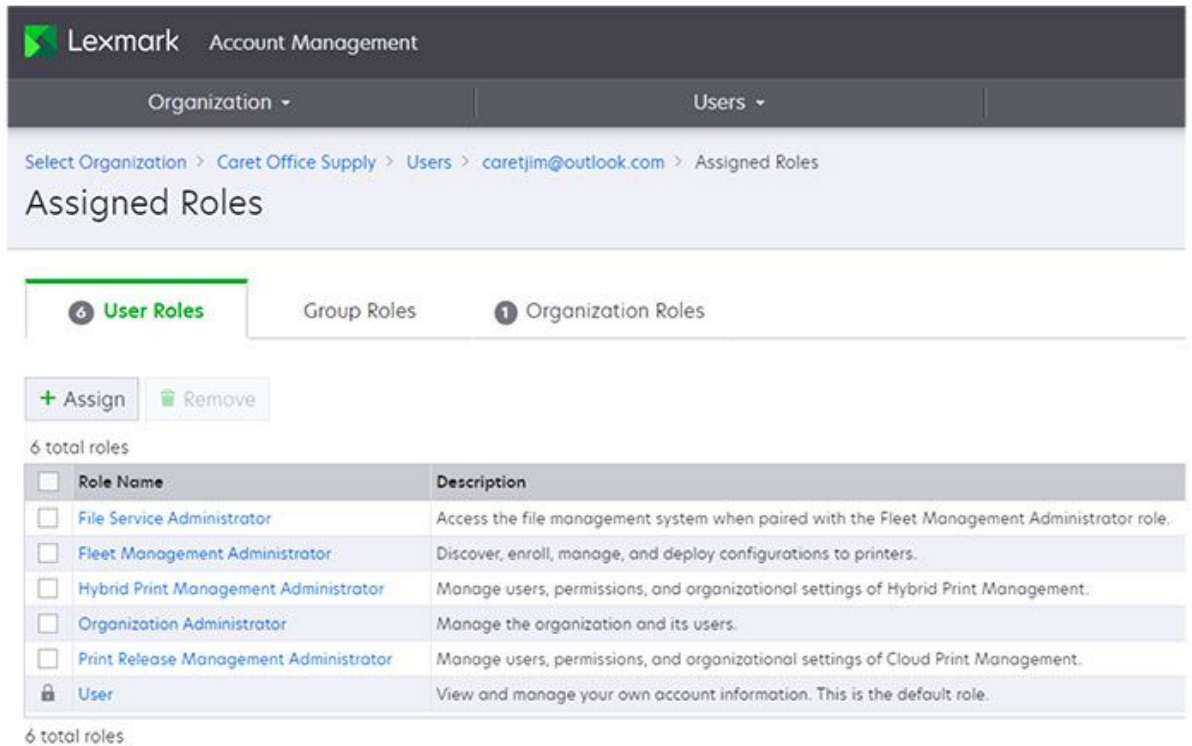
<input type="checkbox"/>	Role Name	Description
<input checked="" type="checkbox"/>	File Service Administrator	Access the file management system when paired with the Fleet Management Administrator role.
<input checked="" type="checkbox"/>	Fleet Management Administrator	Discover, enroll, manage, and deploy 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

**Assign Roles** **Cancel**

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



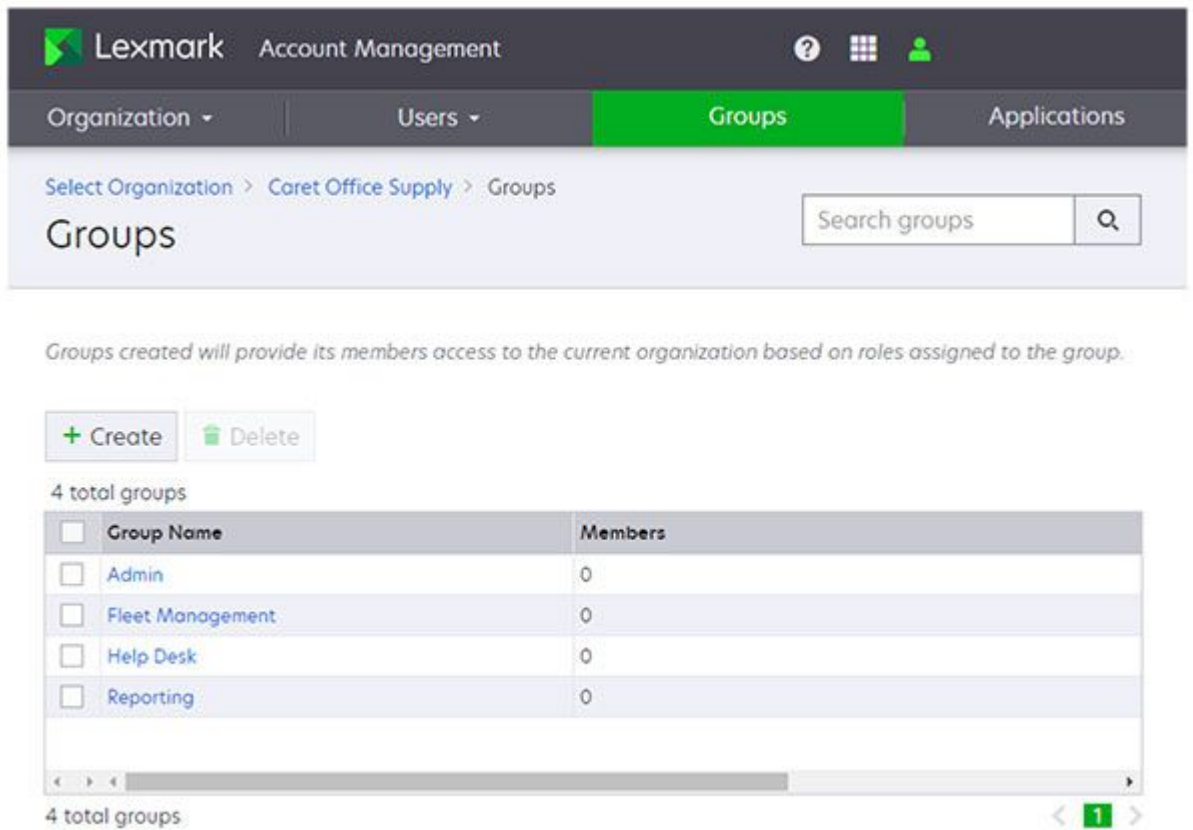


## Assigning roles through groups

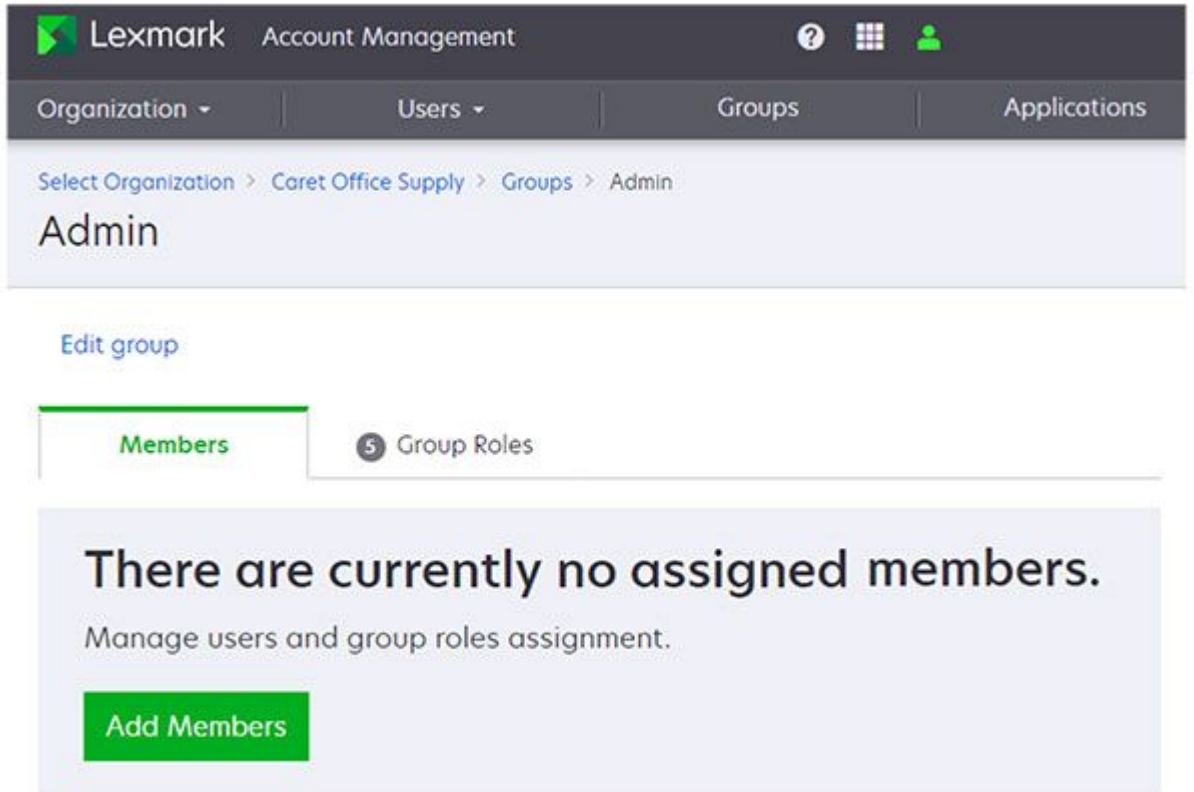
Assigning roles through groups allows a set of roles to be given to users by making them a member of a group. This method makes it easy to assign the same roles to multiple users.

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

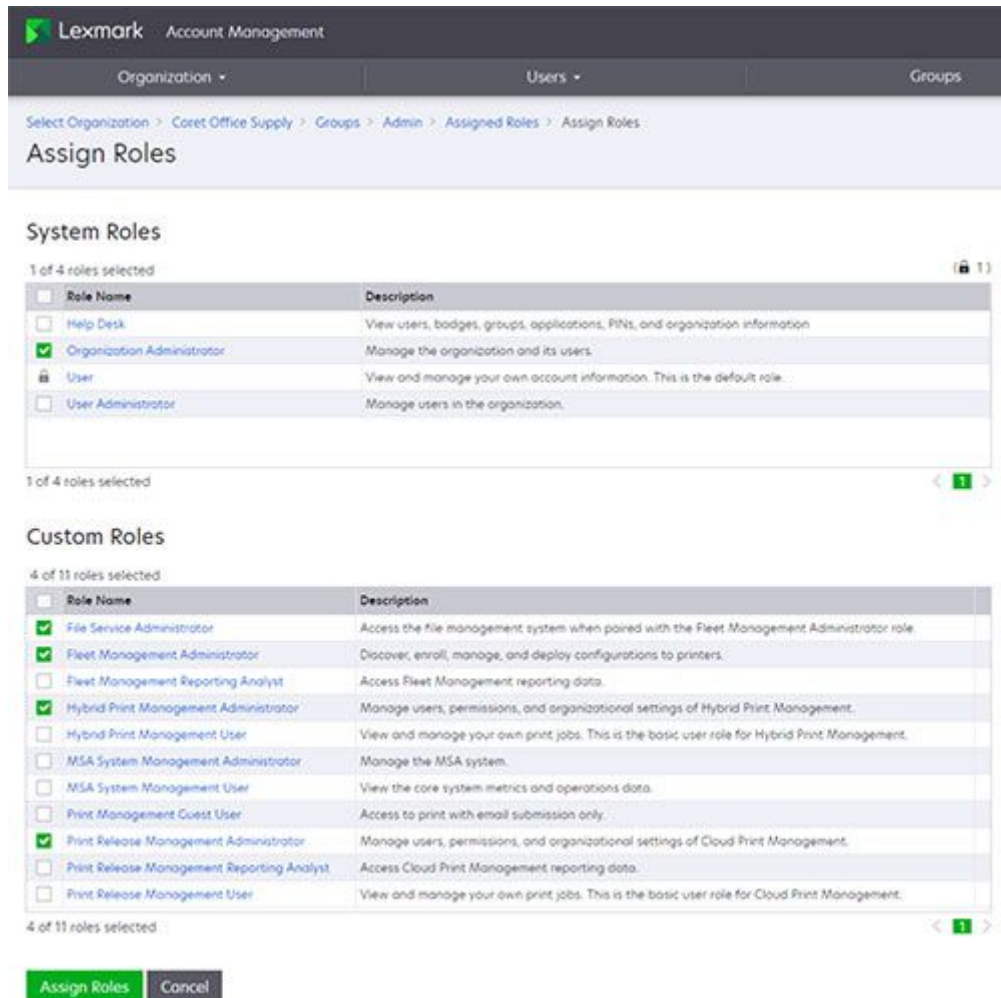
1. From the Account Management web portal, click **Groups** tab.
2. Do any of the following:
  - To create a new group, click **Create**.



1. In the Group name field, type the name of the group.
2. 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.

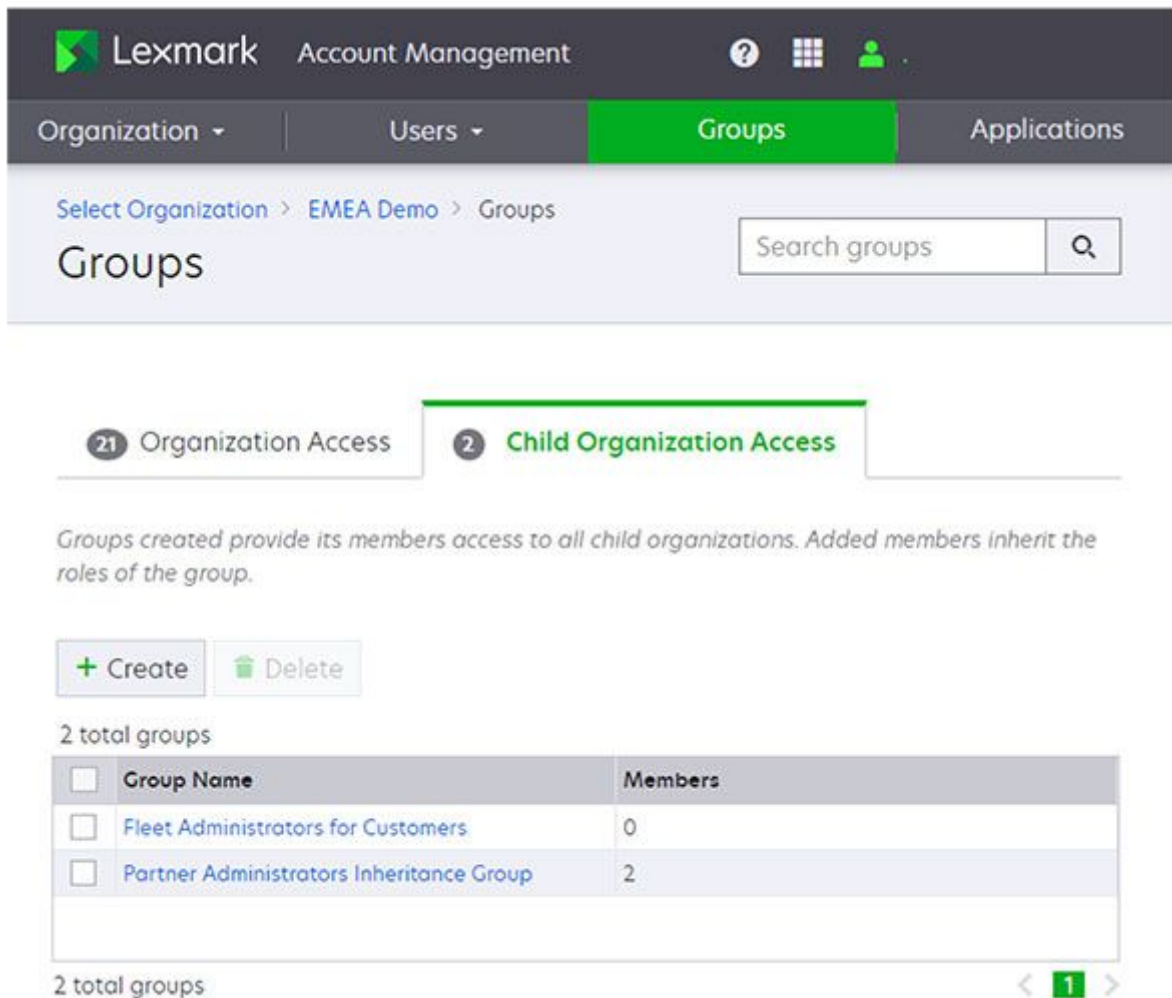


## Assigning roles by membership in a child organization access group

### Notes

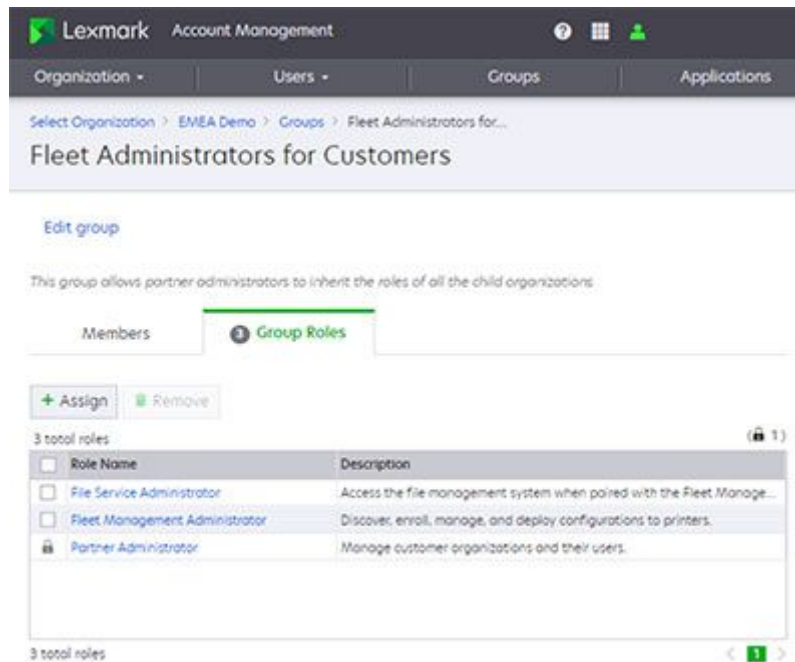
- Child organization access groups are available only to channel partners.
- Roles assigned through membership in a child organization access group apply across all customer organizations.

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.



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.

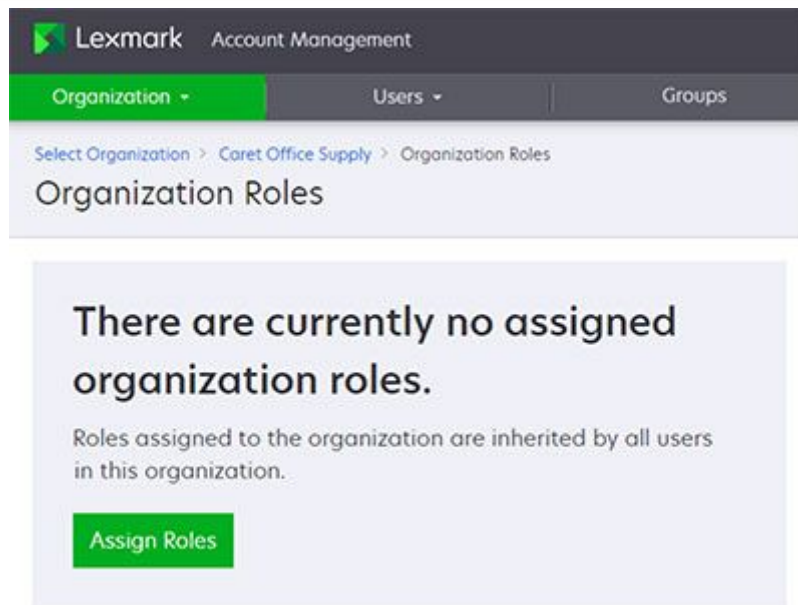
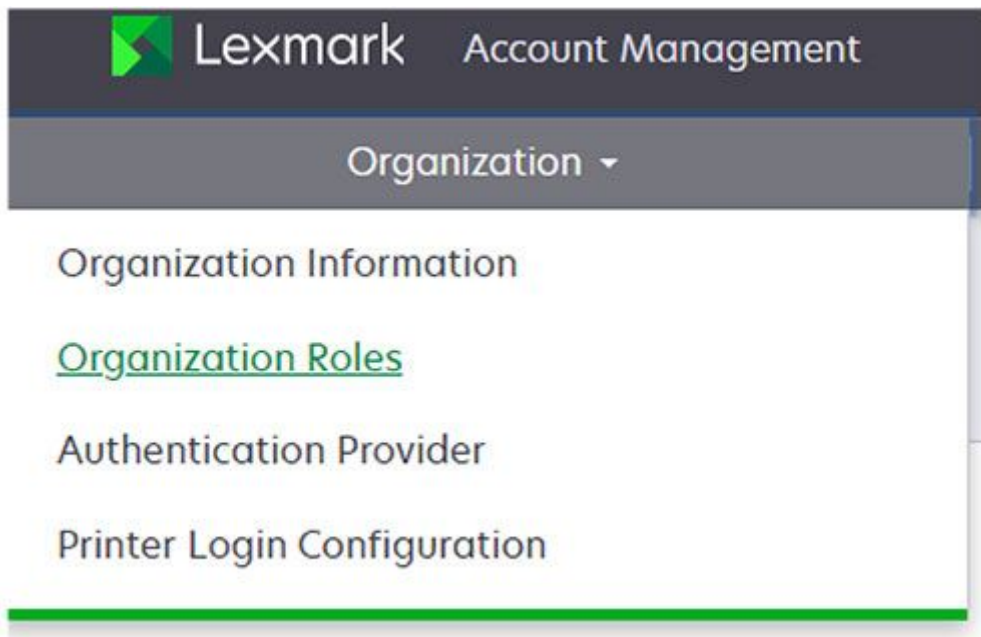
The Partner Administrator role is required for users to have access to customer (child) organizations. For example, a user who will be managing printers in a child organization using Fleet Management must be a member of a child organization access group. Moreover, that child organization access group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



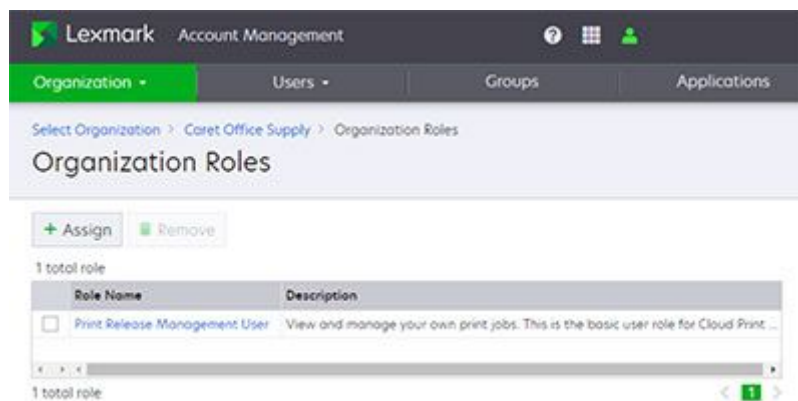
## Assigning organization roles

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**.

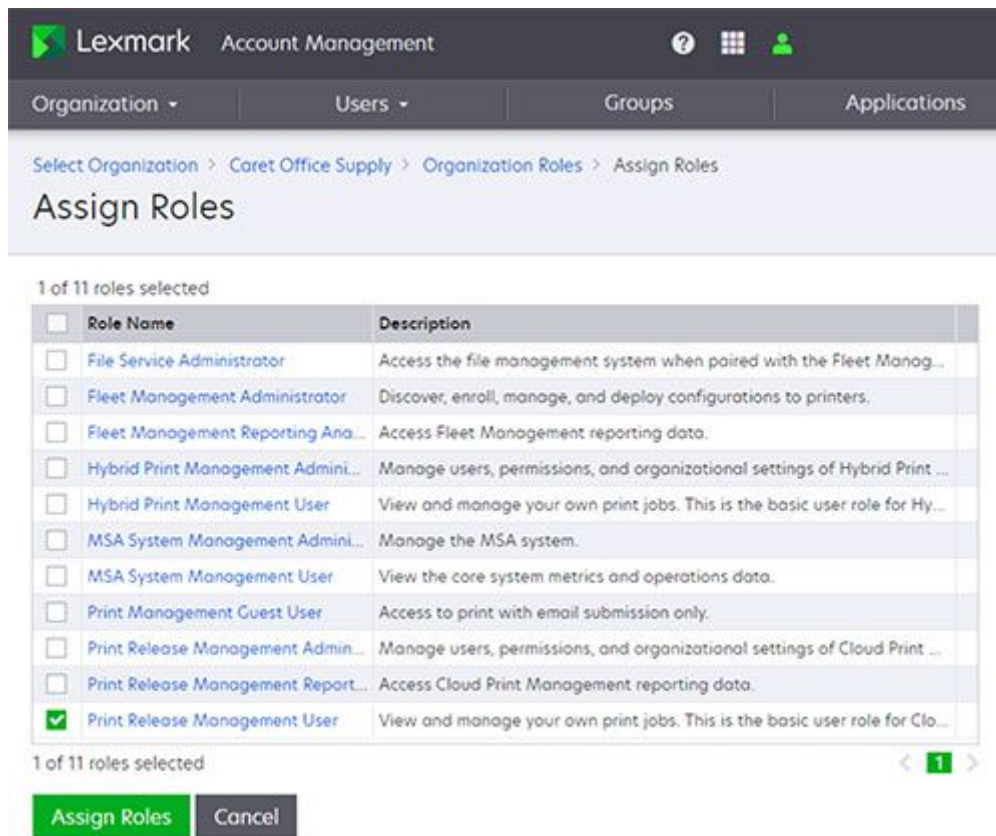


2. Click **Assign** or **Assign Roles**.



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





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" group.

### 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

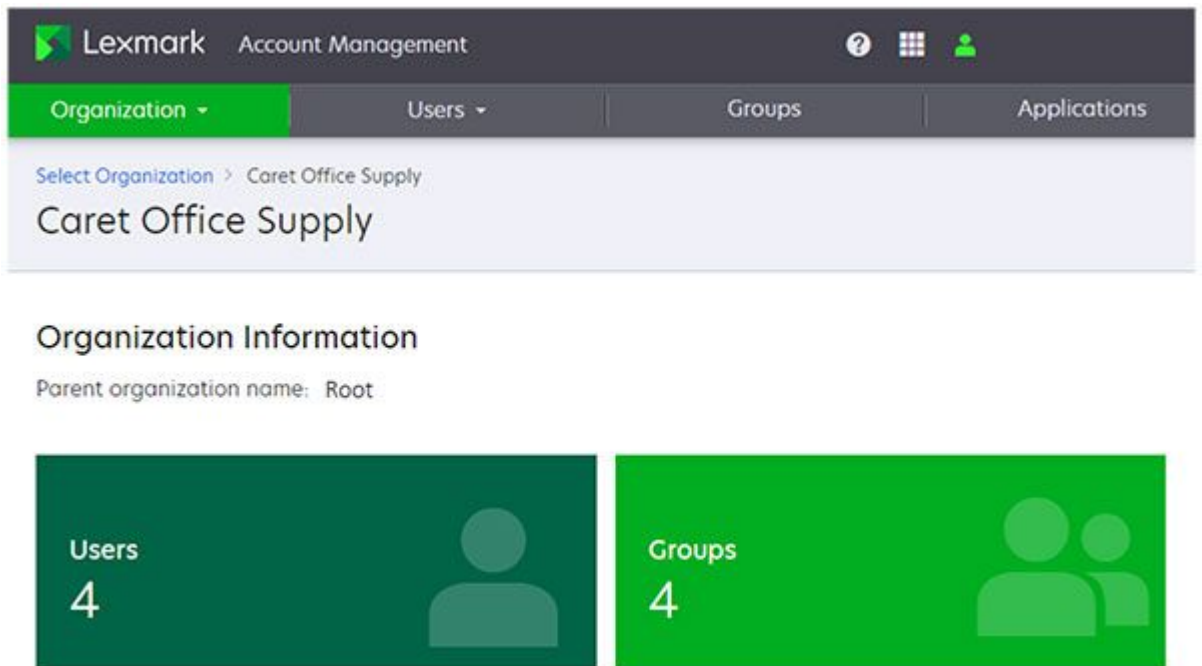
### Badges registered manually by an Organization Administrator or a User Administrator in the Account Management portal

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

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

---

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

**Printer Login**

---

Login Method: PIN, Badges or Manual  
 Manual: Enabled  
 Badges: [Edit](#)  
 No badge registered  
 PIN: [Set PIN](#)

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

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

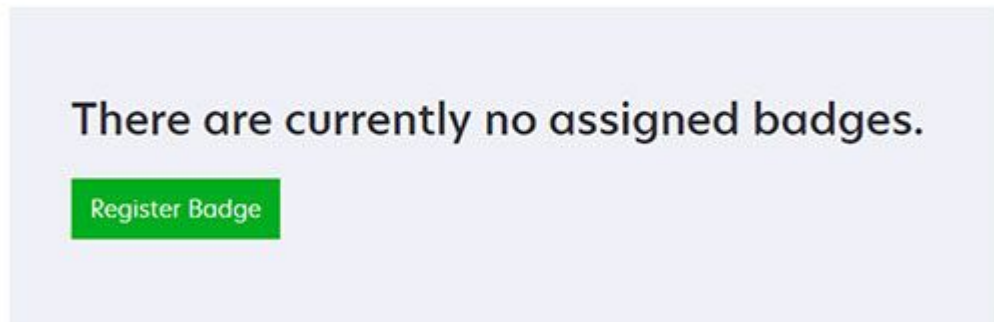
### Registered Badges

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

1 total badge

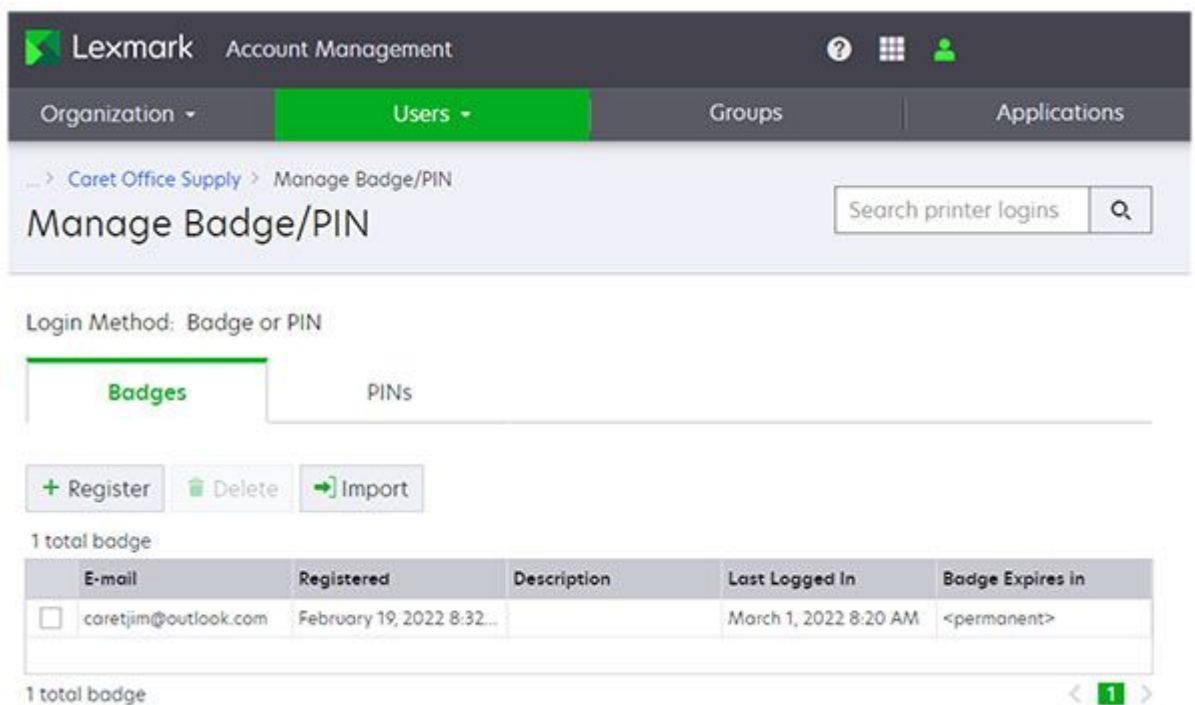
Registered	Description	Last Logged In	Badge Expires in
<input type="checkbox"/> March 7, 2022 8:24 AM		<waiting for log in>	<permanent>

1 total badge < 1 >



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

- From the Users menu, click **Manage Badge/PIN**.
- Click **Register** or **Register Badge**.



- 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.

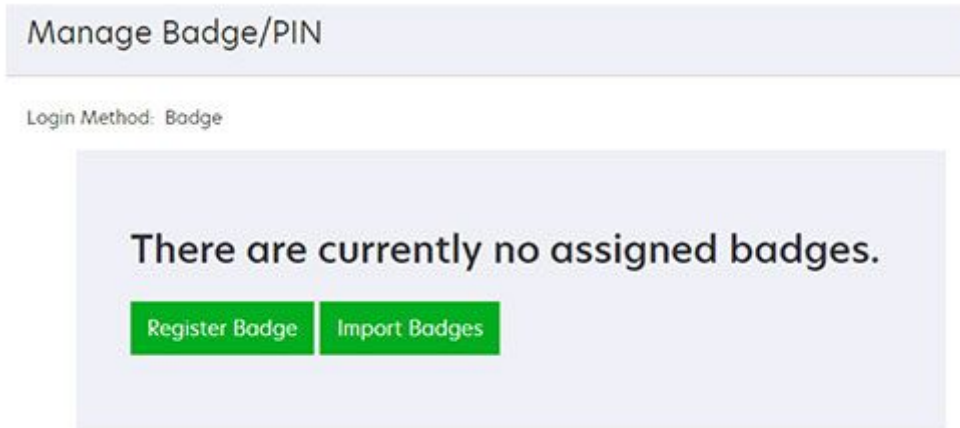
- Click **Register Badge**.

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

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

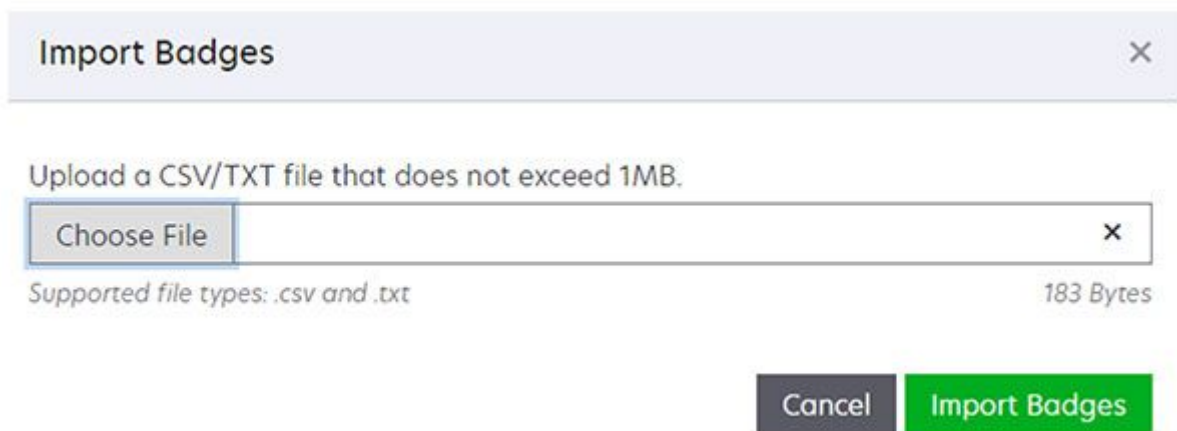
**Note:** If you are a channel partner with child organizations, then you must select the organization.

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



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 243](#).



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 dashboard for user Sally Caret. The dashboard is divided into four main 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
  - A [View](#) link is present.
- 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. At the top, there are navigation links: [Select Organization](#) > [Caret Office Supply](#) > [Users](#) > [caretsally@outlook.com](#) > [Registered Badges](#). Below the navigation is a '+ Register' button and a 'Delete' button. A summary line indicates '1 total badge'. Below this is a table with the following data:

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

At the bottom, there is another '1 total badge' summary and a pagination control showing '< 1 >'.

4. In the Register Badge window, enter the badge information.
5. Click **Register Badge**.

**Register Badge** ✕

E-mail  
  
E-mail must be unique

Badge ID

Badge description

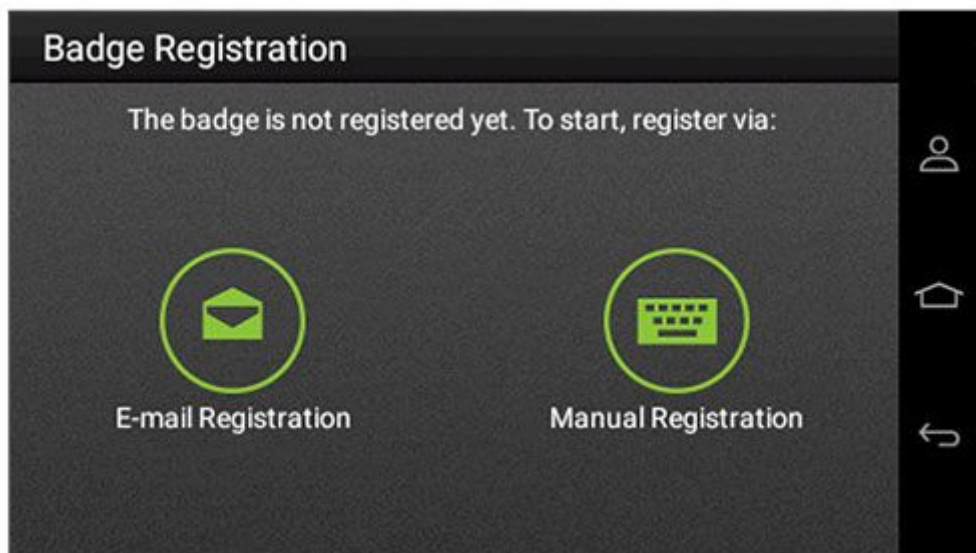
Show badge ID

Temporary Badge

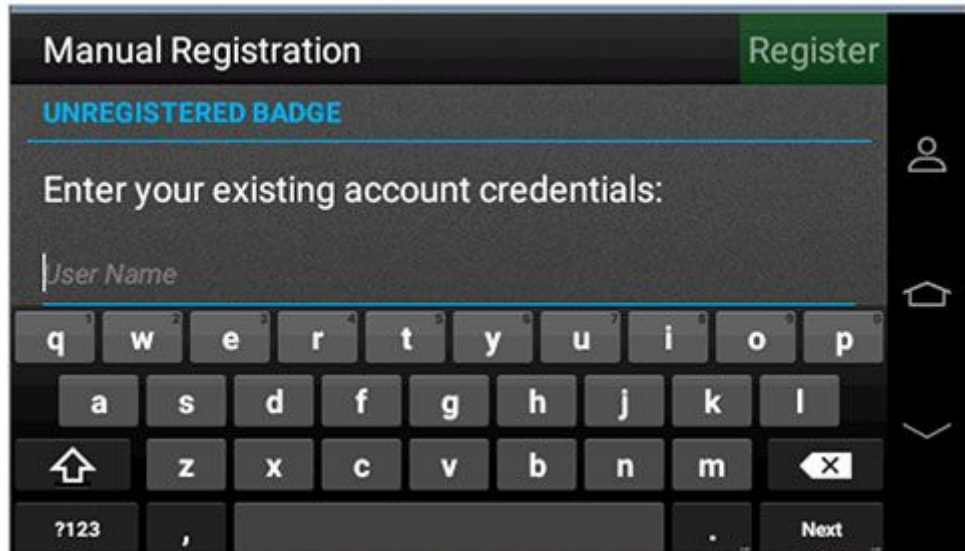
**Badge registered by a user at the printer control panel**

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:

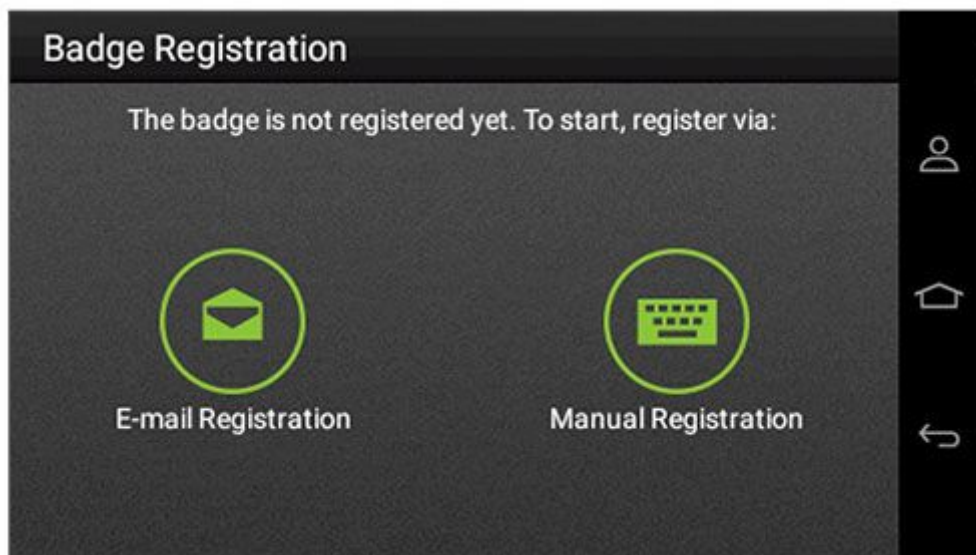
- Manual badge registration using your email address and password
  1. Tap your badge on a card reader that is attached to a printer.
  2. From the control panel, touch **Manual Registration**.



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

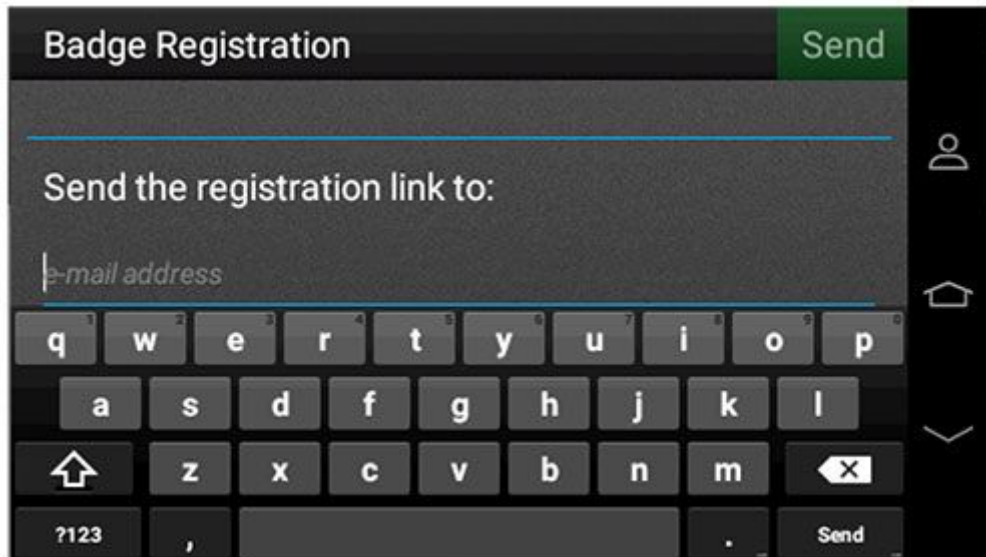


4. Touch **Register**.
- Email badge registration request sent from the printer
    1. Tap your badge on a card reader that is attached to a printer.
    2. On the control panel, touch **E-mail Registration**.

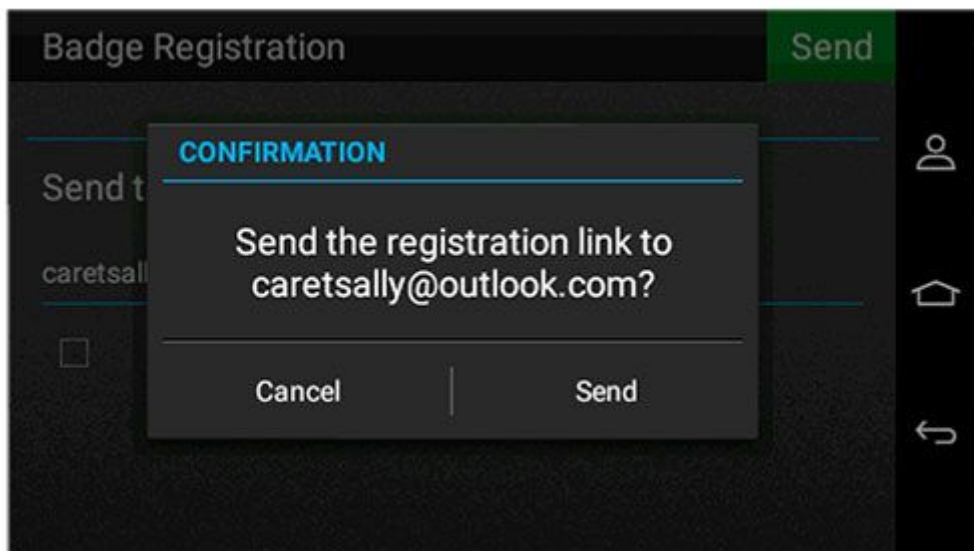


3. In the Send the registration link to field, type your email address.

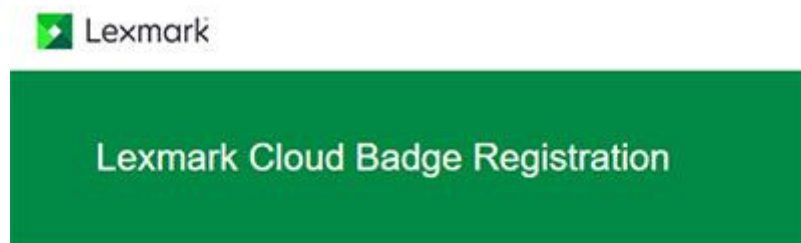




4. Touch **Send** > **OK**.



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



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" group.

### 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 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.

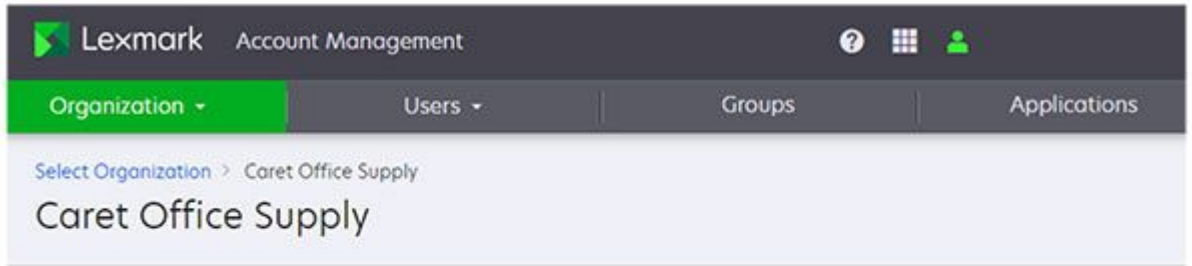
**Note:** Make sure that PIN Generating Options is set to either **Automatically generate and email** or **Administrator manually sets**.

### 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**.



### Organization Information

Parent organization name: Root

A dark green card with a white silhouette of a person. The text 'Users' is at the top, and a large white number '4' is in the center.

A bright green card with a white silhouette of two people. The text 'Groups' is at the top, and a large white number '4' is in the center.

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**.

The screenshot shows the user profile page for 'caretsally@outlook.com'. The page is divided into several sections:

- Personal Information** (with an 'Edit' link):
  - 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 button
- Assigned Groups** (with an 'Edit' link):
  - No group assigned
- Assigned Roles** (with an 'Edit' link):
  - User Roles: 1
  - Group Roles: 0
  - Organization Roles: 1
- Printer Login** (with a lock icon):
  - 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 Groups** [Edit](#)

No group assigned

**Printer Login**

Login Method: PIN, Badges or Manual

Manual: Enabled

Badges: [Edit](#)

No badge registered

PIN: [Reset PIN](#)

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

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

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** ×

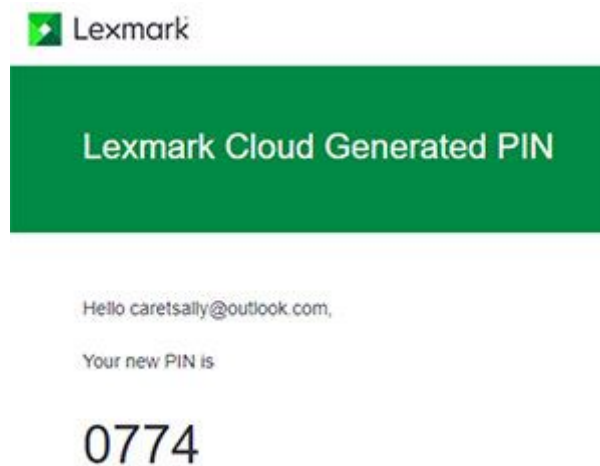
E-mail  
  
*E-mail must be unique*

PIN code  
  
*PIN must be of 4 characters long numeric*

Show PIN code

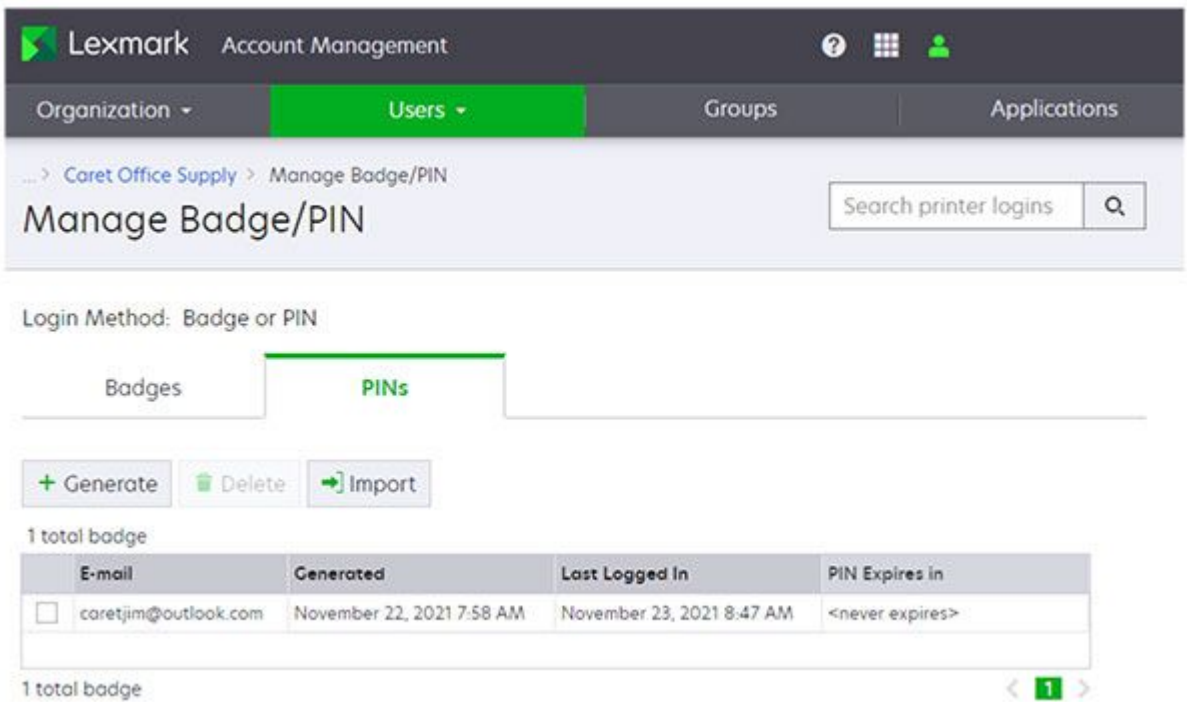
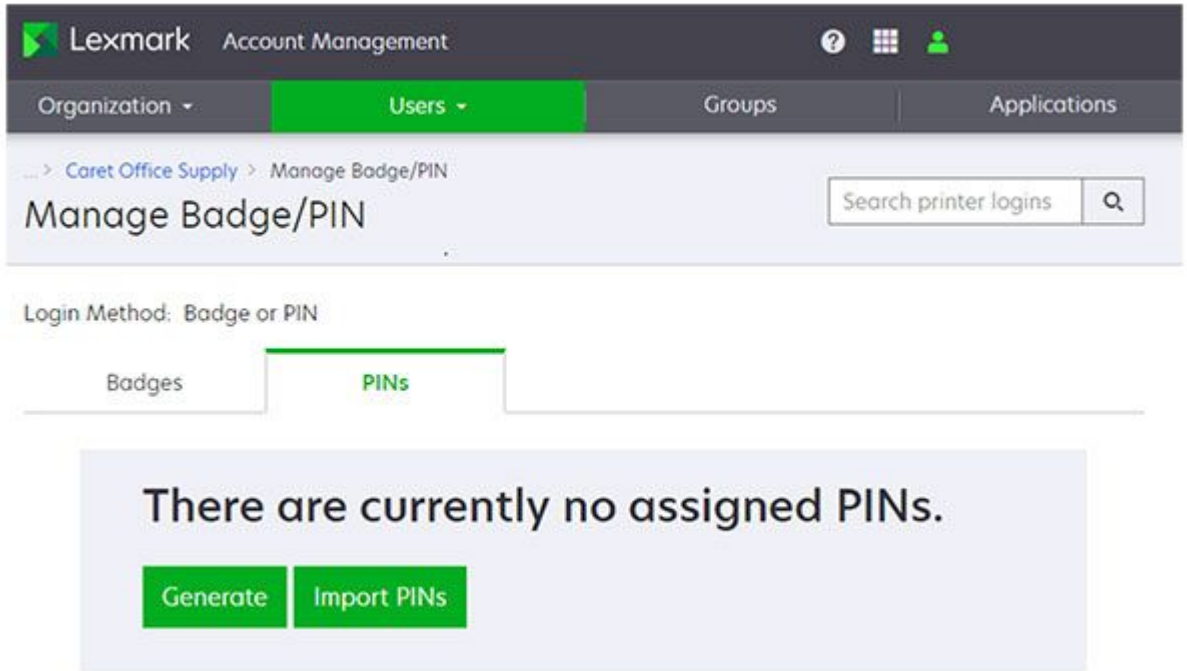
Cancel Generate PIN

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**.



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

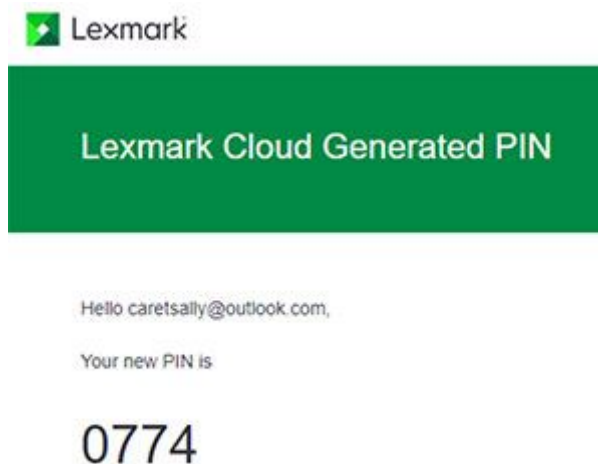
Generate PIN ×

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 283](#).
- 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**

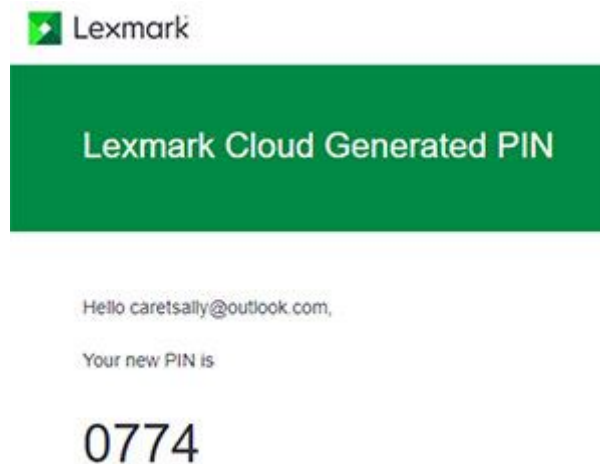
1. From the Account Management portal, select the **Users** card, or click **Users > Users**.
2. Click **Import**.
3. In the Import Users window, browse to the CSV or the TXT file that contains the users list.
4. Click **Import Users**.

**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.



- 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

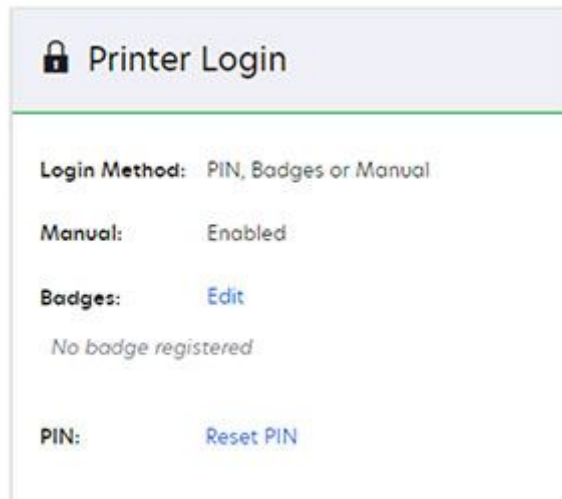
**Manual:** Enabled

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

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

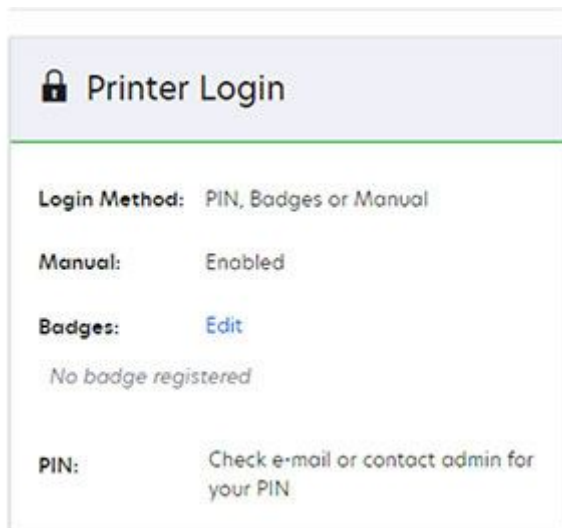


- Reset PIN



The screenshot shows the 'Printer Login' interface. At the top, there is a lock icon and the text 'Printer Login'. Below this, the 'Login Method' is set to 'PIN, Badges or Manual'. The 'Manual' option is 'Enabled'. The 'Badges' section has an 'Edit' link and the text 'No badge registered'. The 'PIN' section has a 'Reset PIN' link.

- Check e-mail or contact administrator for your PIN



The screenshot shows the 'Printer Login' interface. At the top, there is a lock icon and the text 'Printer Login'. Below this, the 'Login Method' is set to 'PIN, Badges or Manual'. The 'Manual' option is 'Enabled'. The 'Badges' section has an 'Edit' link and the text 'No badge registered'. The 'PIN' section has the text '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.

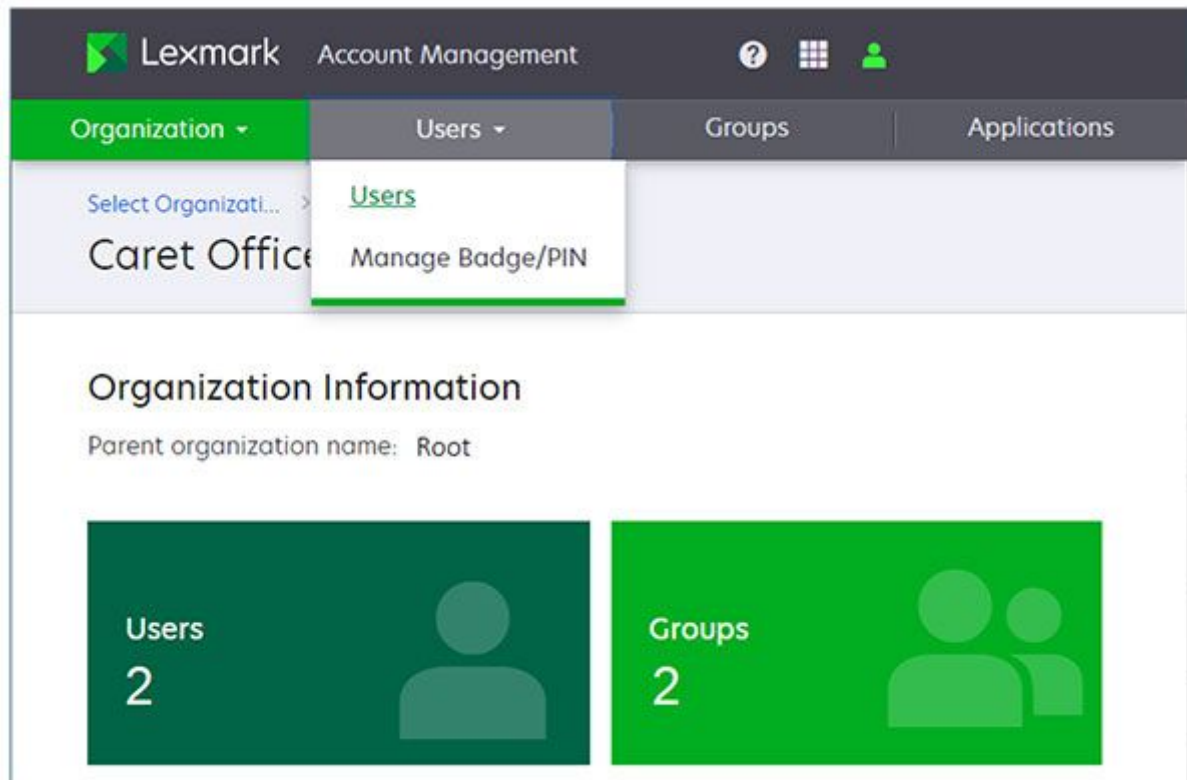
## Modifying user information

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.

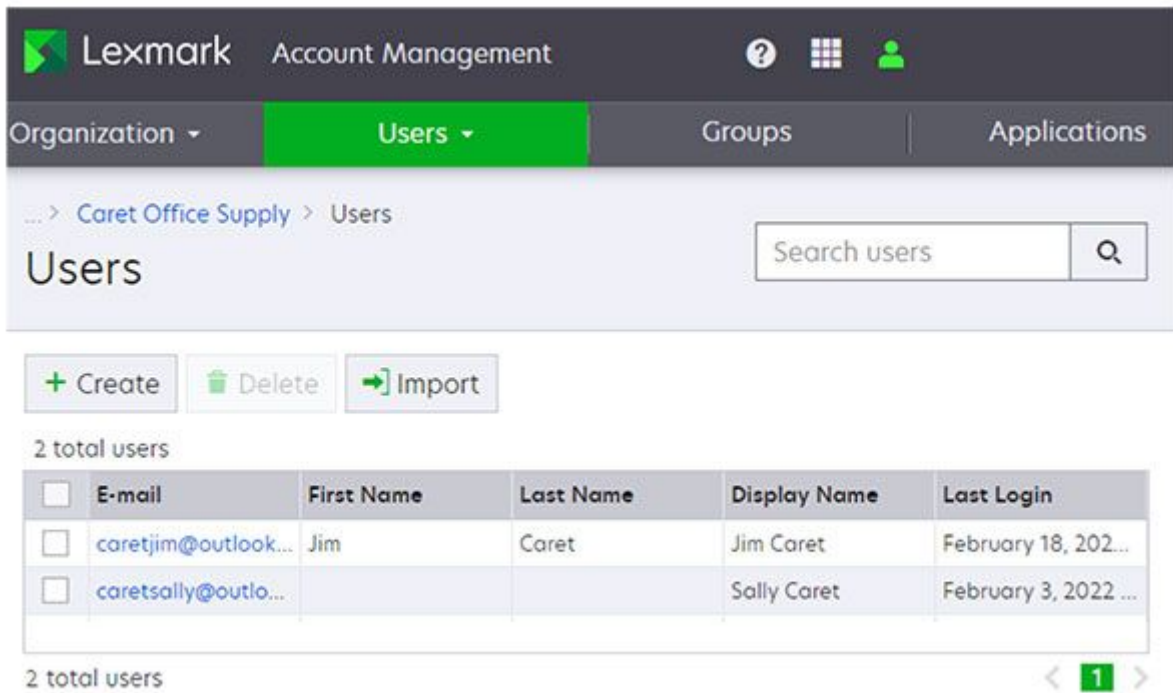
If Identity Federation is not used, or if claims from your authentication provider do not work, then modify user information by doing one of the following:

### 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.

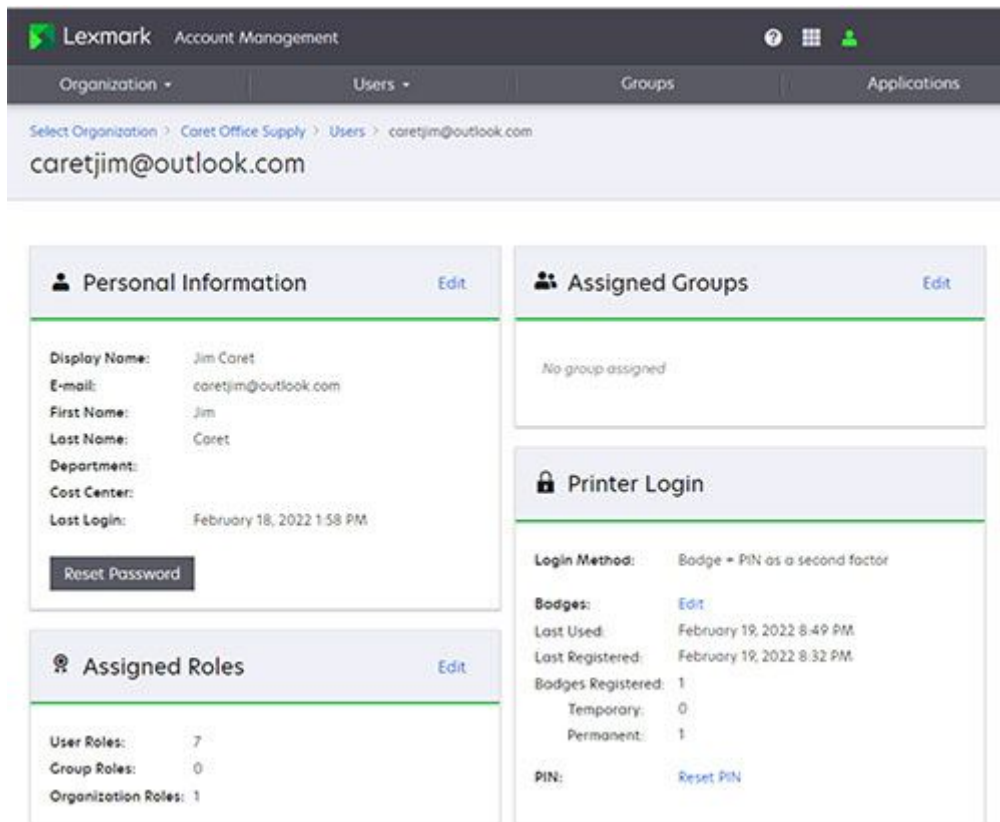


The screenshot shows the Lexmark Account Management interface. At the top, there's a navigation bar with 'Lexmark Account Management' and icons for help, grid, and user. Below it, a breadcrumb trail shows 'Organization > Caret Office Supply > Users'. The main heading is 'Users' with a search box. Action buttons for '+ Create', 'Delete', and 'Import' are visible. A table lists 2 total users:

<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 type="checkbox"/>	caretsally@outlo...			Sally Caret	February 3, 2022 ...

At the bottom right of the table area, there are navigation arrows and a page indicator '1'.

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



The screenshot shows the user profile page for 'caretjim@outlook.com'. The breadcrumb trail is 'Select Organization > Caret Office Supply > Users > caretjim@outlook.com'. The page is divided into several sections:

- Personal Information** (with an **Edit** link):
  - 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 button
- Assigned Groups** (with an **Edit** link):
  - No group assigned
- Assigned Roles** (with an **Edit** link):
  - User Roles: 7
  - Group Roles: 0
  - Organization Roles: 1
- Printer Login** (with a lock icon):
  - Login Method: Badge + PIN as a second factor
  - Badges:
    - 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**.

The screenshot shows 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 secondary navigation bar with tabs for 'Organization', 'Users', 'Groups', and 'Applications'. The breadcrumb trail indicates the current path: 'Select Organization > Caret Office Supply > Users > caretjim@outlook.com > Personal Information'. The main heading is 'Personal Information'. The form contains several input fields: 'E-mail' (filled with 'caretjim@outlook.com'), 'First Name' (filled with 'Jim'), 'Last Name' (filled with 'Caret'), 'Display Name' (filled with 'Jim Caret'), 'Department' (empty), and 'Cost Center' (empty). At the bottom of the form are two buttons: 'Update Profile' (highlighted in green) and '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 243](#).

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.

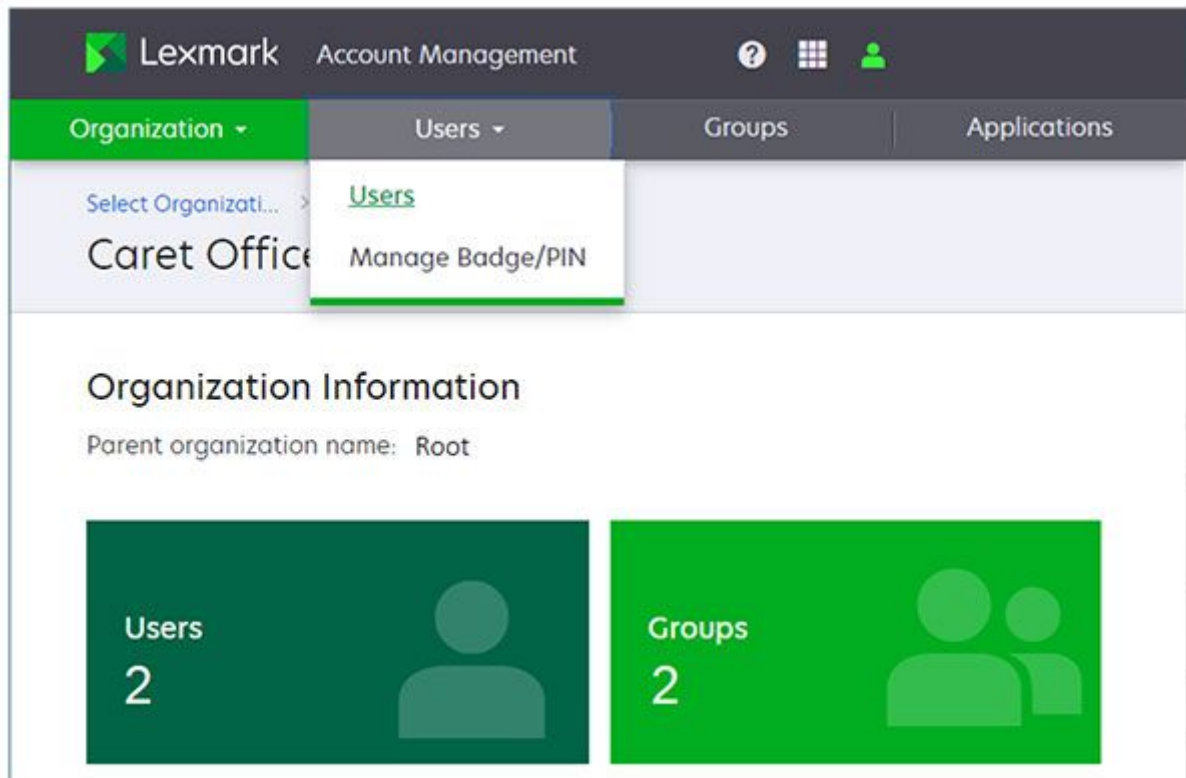
### Deleting user accounts

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.

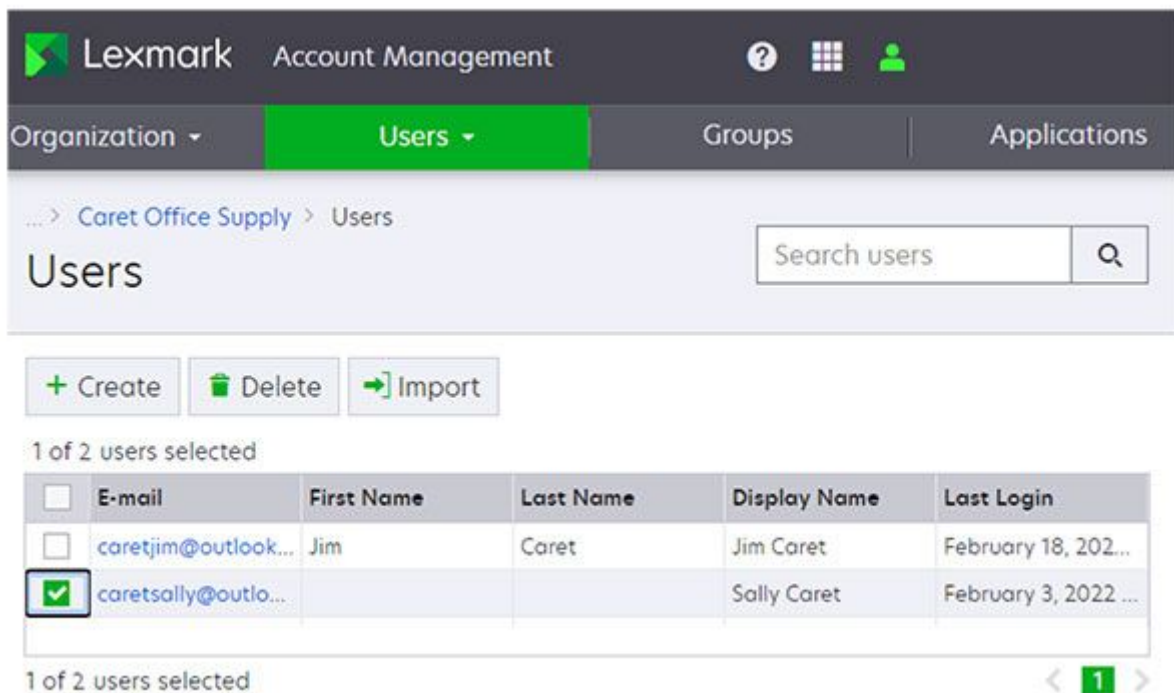
If Identity Federation is not used, then you can delete user accounts by doing one of the following:

#### 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**.



3. Click **Delete User**.



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

For more information, see [Managing users on page 243](#).

## 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

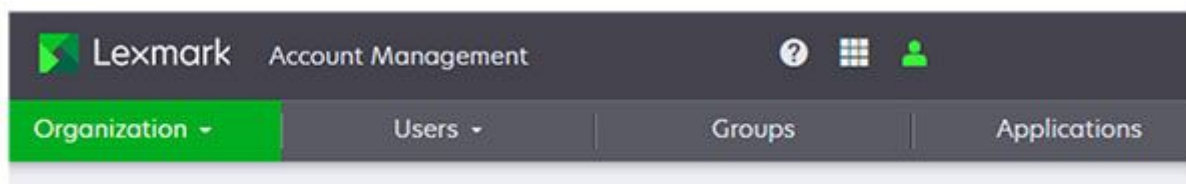
Channel partners who manage printers in their customers' organizations must be members of a Child Organization Access Group. The group must have the Fleet Management Administrator and File Service Administrator roles assigned to it.

#### Notes

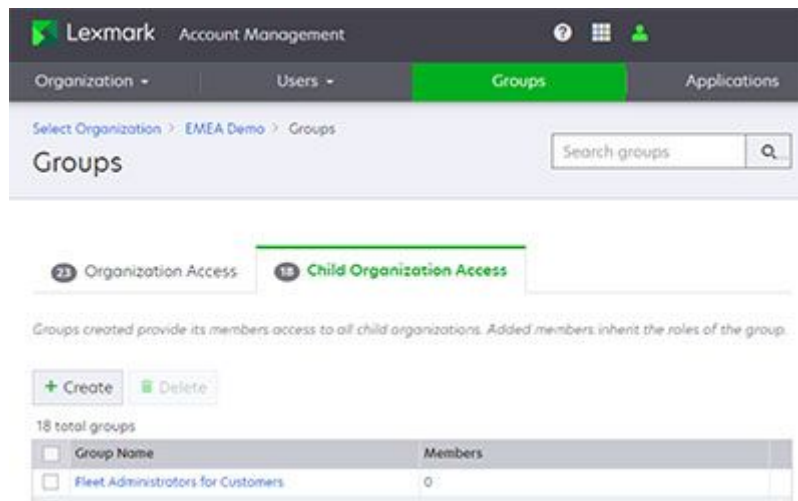
- You must have the User Administrator or Organization Administrator role to create and manage Child Organization Access Groups.
- Roles assigned through membership in a Child Organization Access Group apply across all customer organizations.

### Creating Child Organization Access Groups

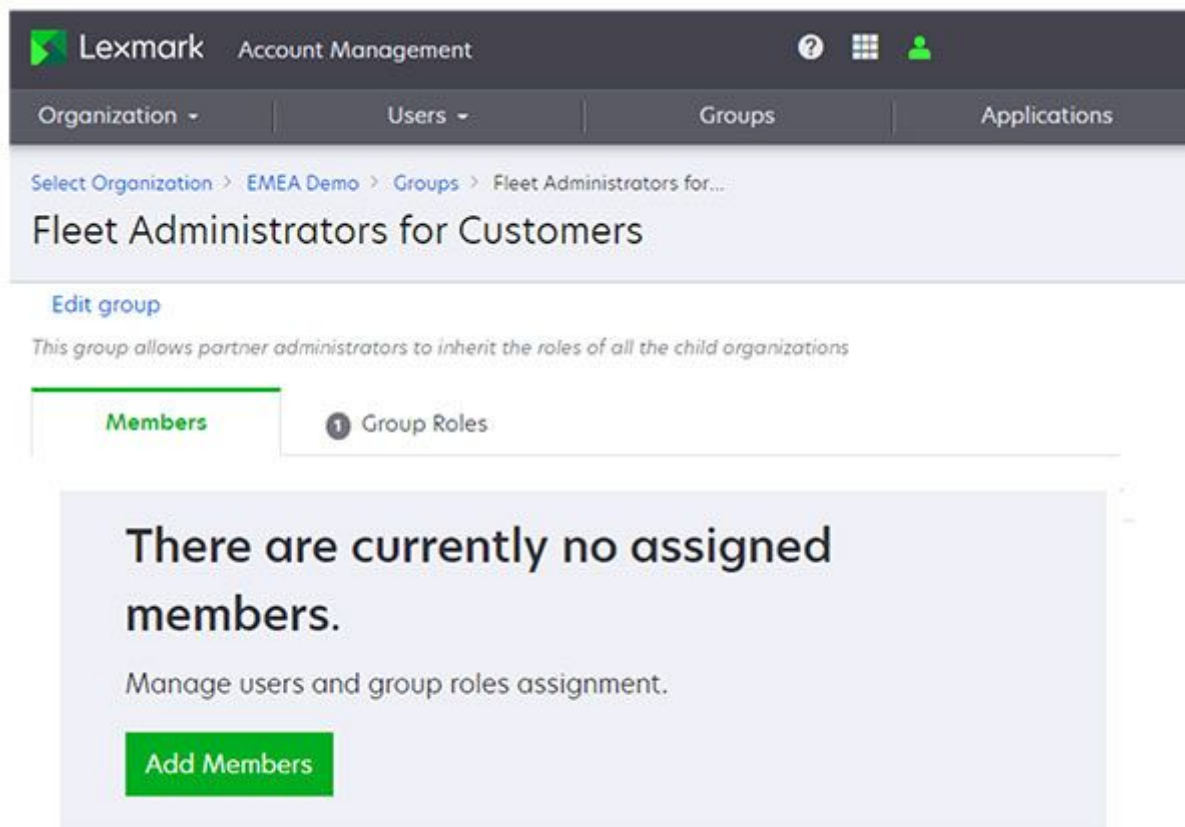
1. From the Account Management portal, click **Groups** tab.



2. Click the **Child Organization Access** tab.
3. Click **Create**.



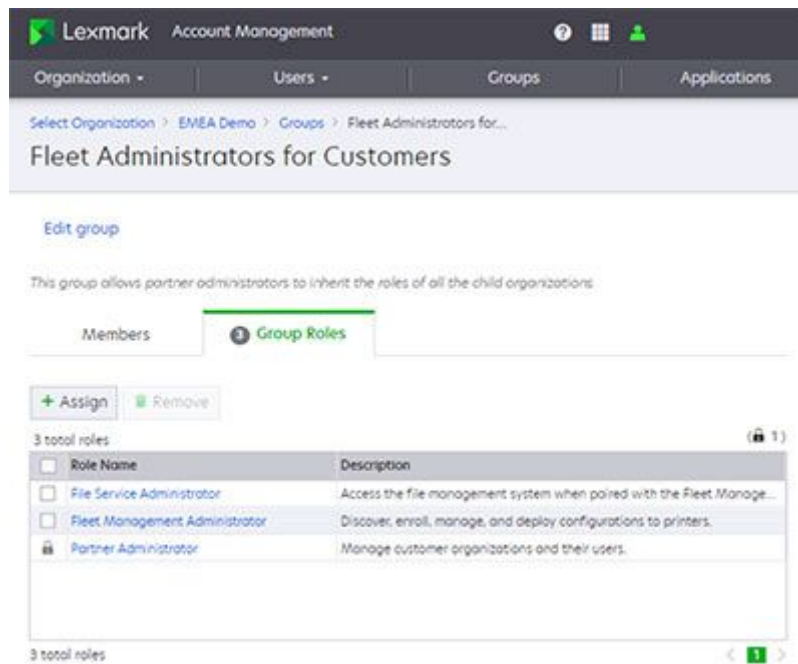
4. In the Group name field, type the name of the group, and then click **Create Group**.
5. Click the name of the group.
6. Click **Add** or **Add Members**.



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.





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 53](#).
- 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 39](#).
- 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 39](#). 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 39](#).
- 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.

## Rollout Guide

- 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

## Rollout Guide

Scenario	Native Agent	Fleet Agent	Printer Agent	Local Agent
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 [Supported printer models on page 39](#).

<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 39](#).
- 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 39](#).

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.

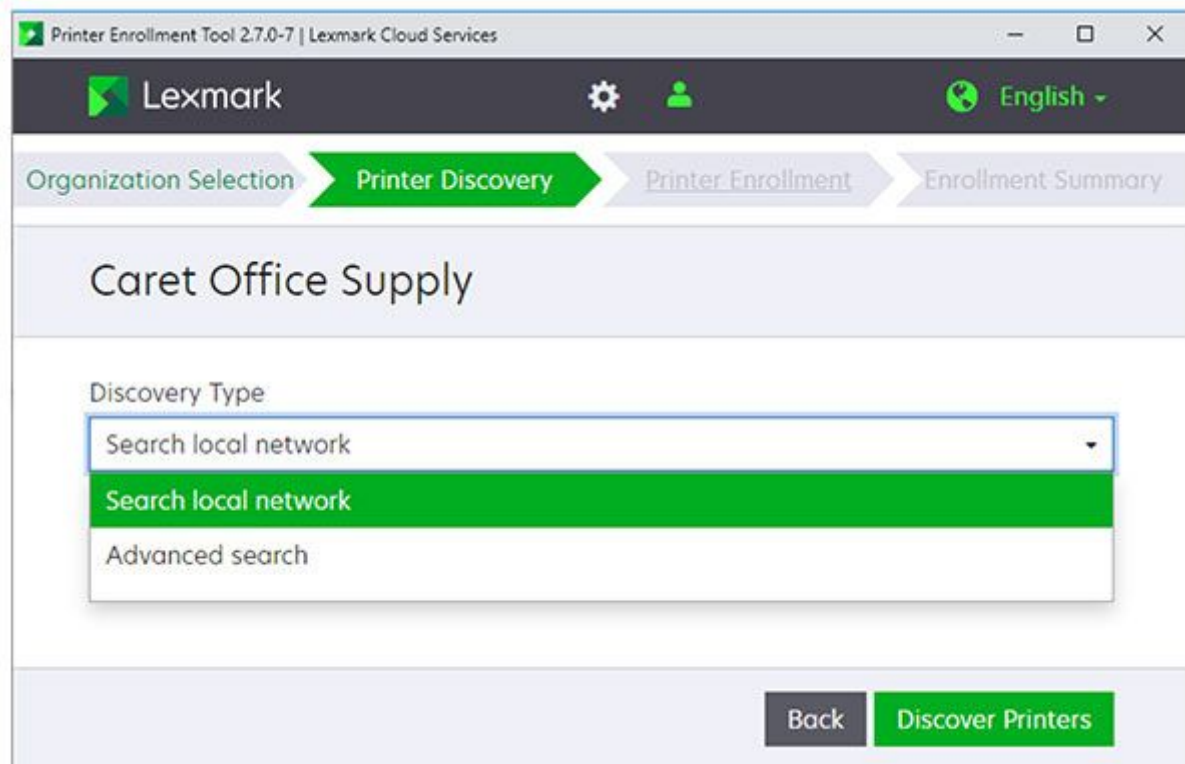
The screenshot shows a 'Settings' dialog box with a close button (X) in the top right corner. The settings are organized into several sections:

- General Settings:** A dropdown menu labeled 'Discover and enroll native agent-capable printers using' is set to 'Printer agent'. Below it is a note: 'This setting only applies to new enrollments.'
- Timeout for printer discovery:** A numeric spinner control is set to '5'. Below it is a note: 'How long the discovery process runs before timing out. Range: 1 to 600 seconds. Recommended starting value: 5 seconds.'
- Timeout for printer enrollment:** A numeric spinner control is set to '300'. Below it is a note: 'How long the application will attempt to enroll a printer. Range: 60 to 499 seconds.'
- Logging detail:** There are two radio buttons: 'Summary' (unselected) and 'Detailed' (selected). A blue link 'View current log' is positioned to the right of the radio buttons.
- SNMP Settings:** A dropdown menu is set to 'Version 1/2c'.
- Community String:** There are two radio buttons: ''public'' (selected) and 'Custom value' (unselected).

At the bottom of the dialog box are three buttons: 'Cancel' (grey), 'Reset' (grey), and 'Save Settings' (green).

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 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.

## 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)

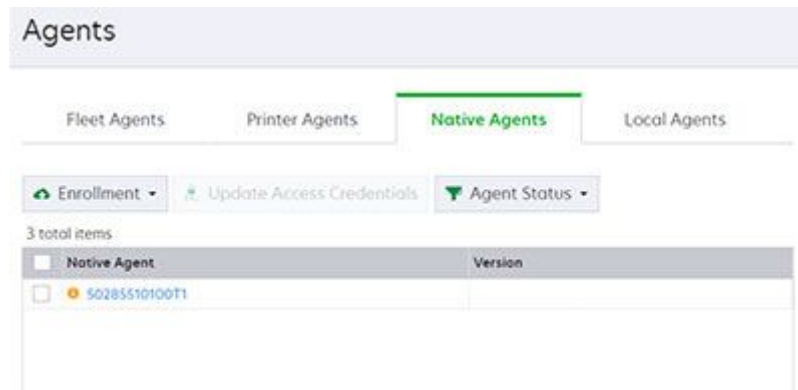
**Note:** Cloud-based pre-enrollment is supported only in current-generation IoT-capable Lexmark printers. If enrollment using this method is unsuccessful, then enroll using the Printer Enrollment Tool.

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

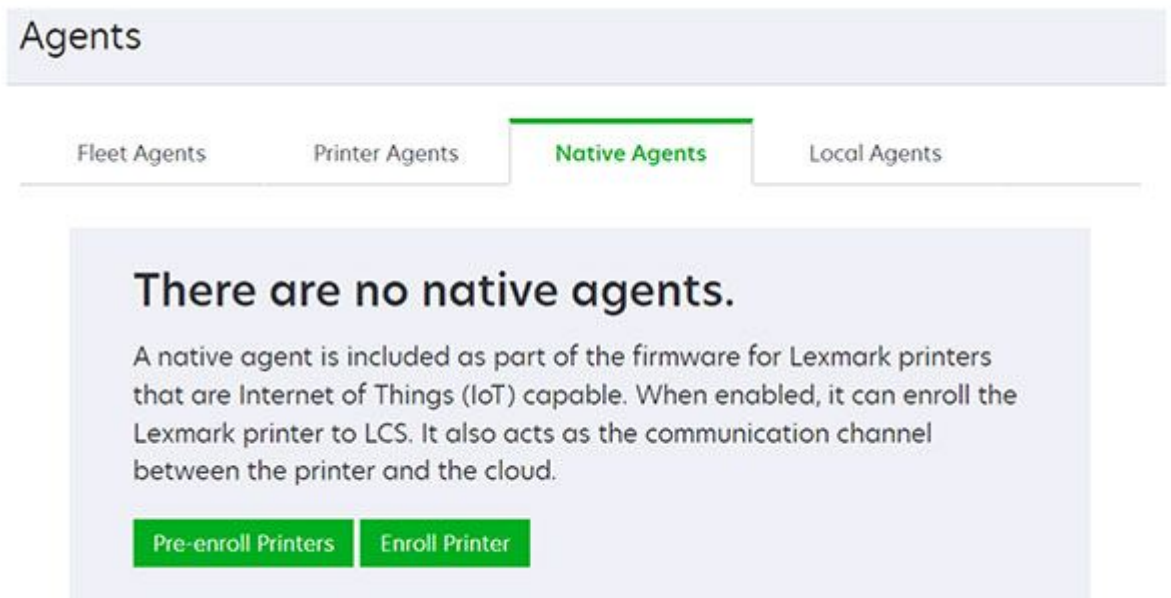
printer-serial-number2

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

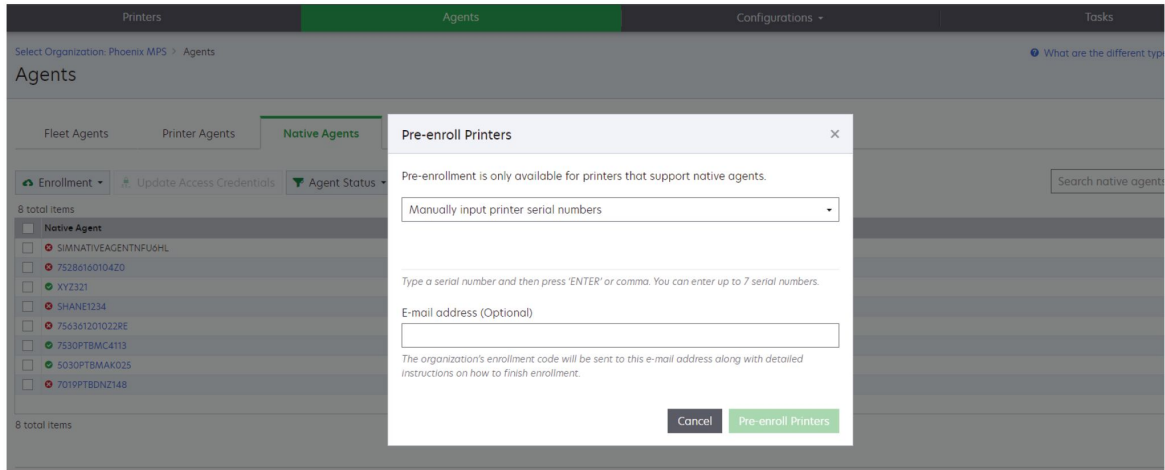
- If some printers are already enrolled, then click **Agents > Native Agents > Enrollment > Pre-enroll > Pre-enroll printers.**



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

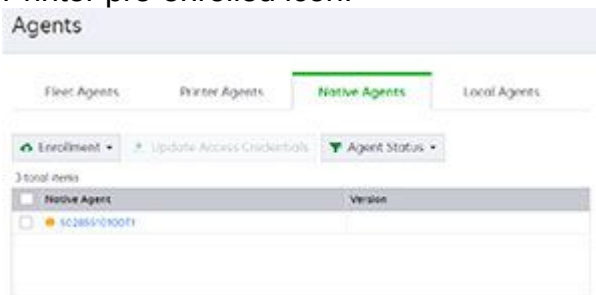


2. From the Pre-enroll Printers dialog, do one of the following:
  - Select **Manually input serial number**, type the printer serial number, and then press **Enter**.
  - Select **Import printer serial number from file**, and then browse to the CSV or TXT file.



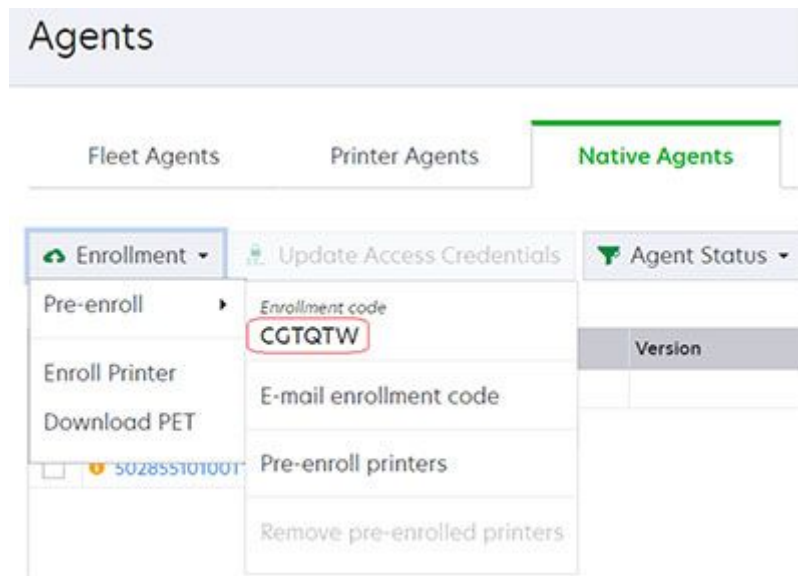
**Note:** To receive the enrollment code and the complete enrollment instructions using email, type your email address.

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 screenshot displays a printer management interface. At the top, a warning message in a yellow box states: "The printer associated with this agent is only pre-enrolled. You must complete enrollment at the printer using the enrollment code." Below this, the interface is divided into three sections: "Status", "Identification", and "Printer Information".

- Status:** Shows "Agent status" as "Printer pre-enrolled" with a yellow warning icon and a "Remove pre-enrolled printer" link.
- Identification:** Shows "Agent type" as "Native".
- Printer Information:** Lists the following details:
  - Serial number: 50285510100t1
  - Pre-enrolled: 5/5/2022, 2:46:23 PM
  - Enrollment code: CGTQTW (highlighted with a red box)

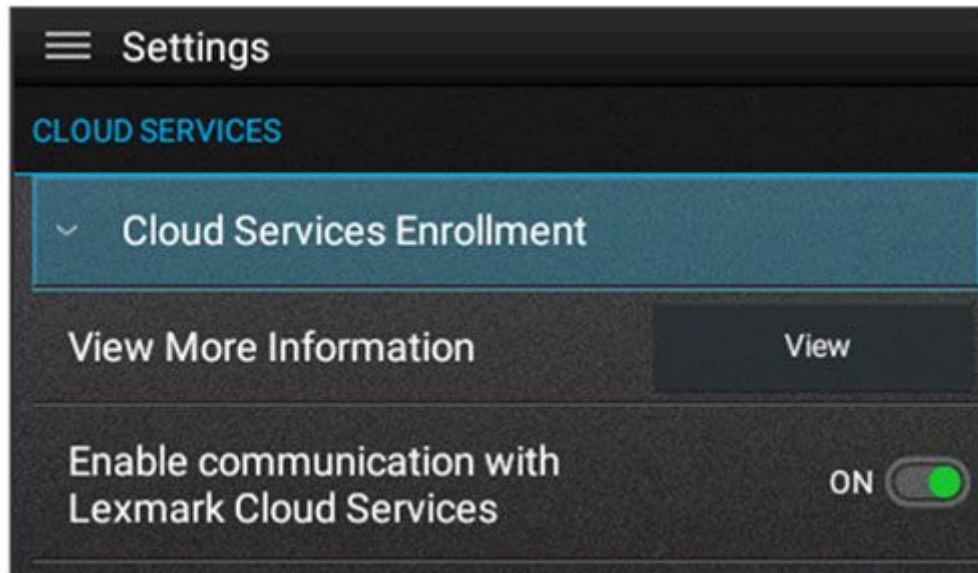
A vertical sidebar on the right contains links for "Status", "Identification", "Printer Information", and "Back to top".

**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 [Printer-based enrollment on page 123](#).

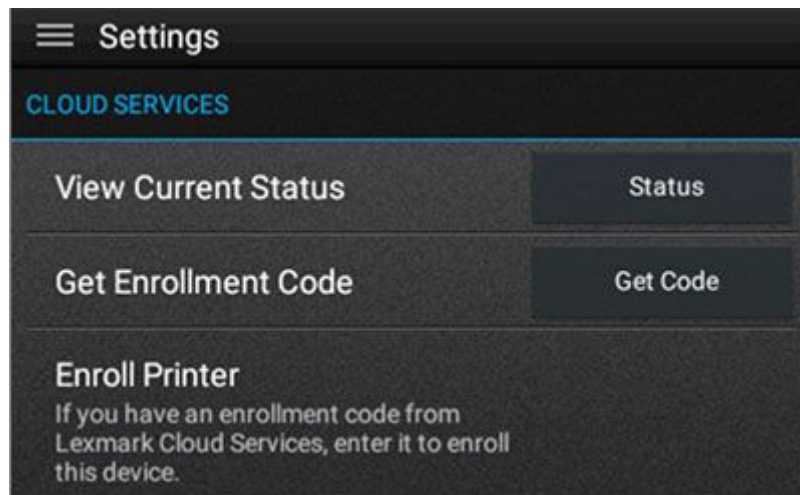
### Applying the enrollment code to the printer

- 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.

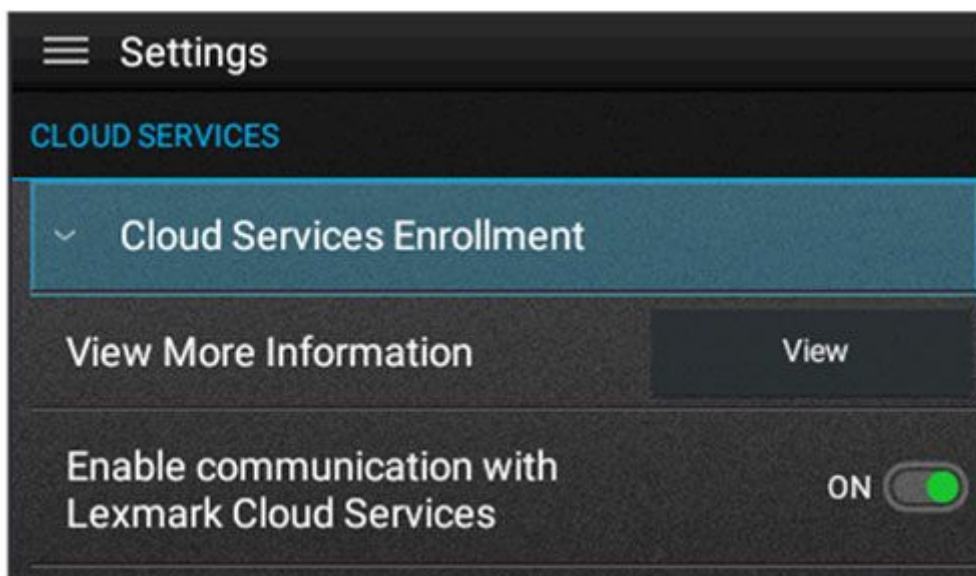
## Obtaining the enrollment code

There are two methods for obtaining the printer enrollment code.

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

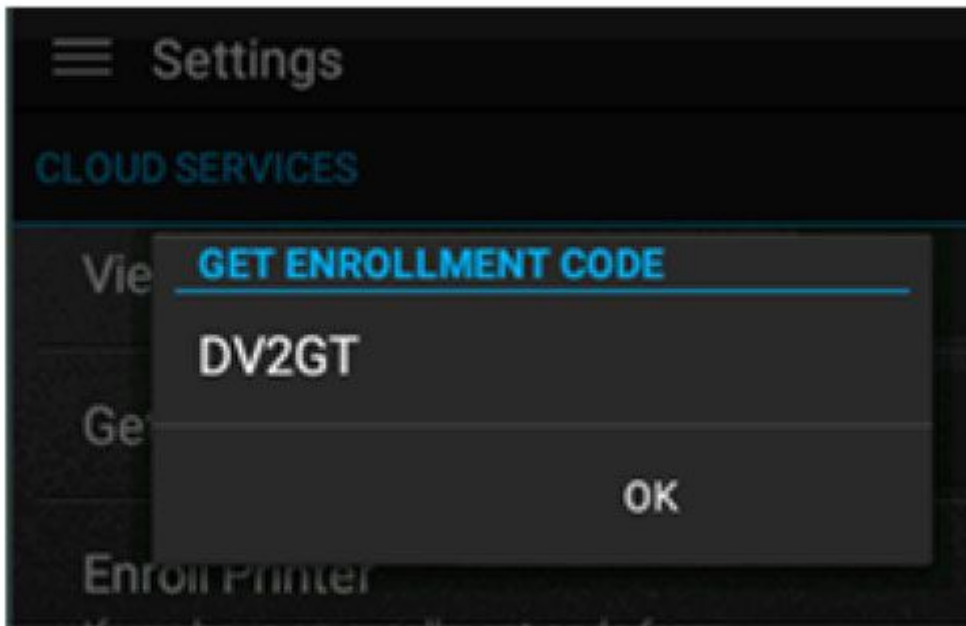
## Obtaining enrollment code by using the control panel

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

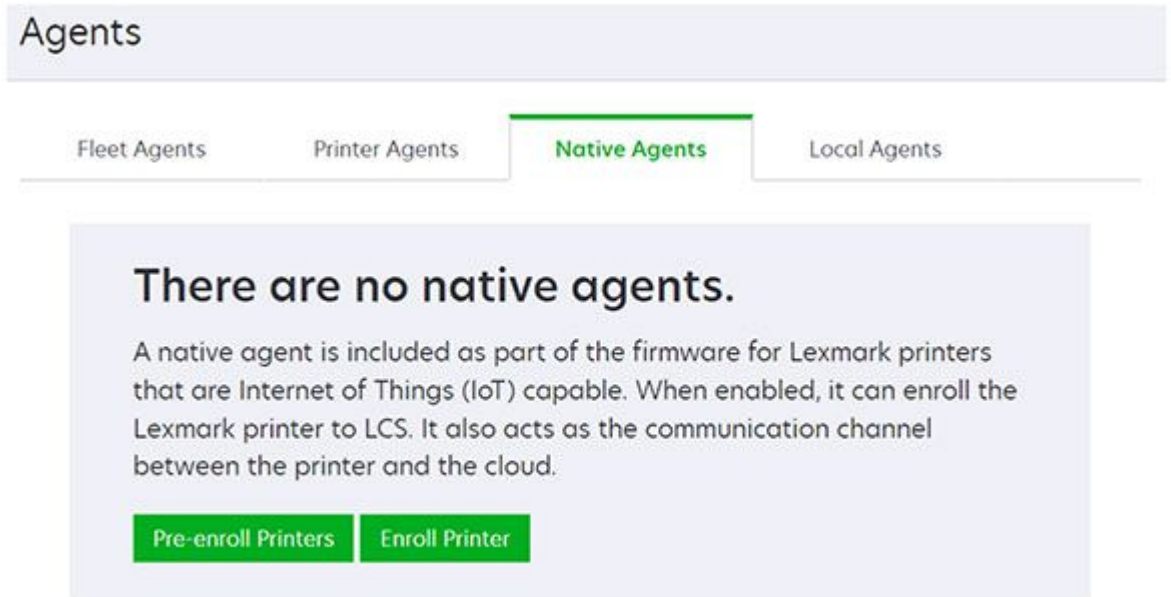
printer-serial-number

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

If no devices are enrolled:

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





Agents

Fleet Agents Printer Agents **Native Agents** Local Agents

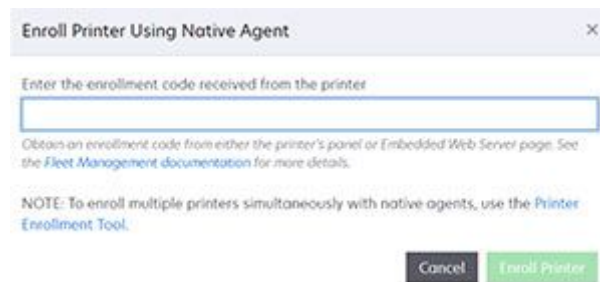
**There are no native agents.**

A native agent is included as part of the firmware for Lexmark printers that are Internet of Things (IoT) capable. When enabled, it can enroll the Lexmark printer to LCS. It also acts as the communication channel between the printer and the cloud.

[Pre-enroll Printers](#) [Enroll Printer](#)

If devices are already enrolled:

- Click **Agents > Native Agents > Enrollment > Enroll Printer**.
2. Enter the enrollment code, and click **Enroll Printer**.



Enroll Printer Using Native Agent

Enter the enrollment code received from the printer

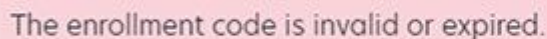
Obtain an enrollment code from either the printer's panel or Embedded Web Server page. See the Fleet Management documentation for more details.

NOTE: To enroll multiple printers simultaneously with native agents, use the Printer Enrollment Tool.

[Cancel](#) [Enroll Printer](#)

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

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



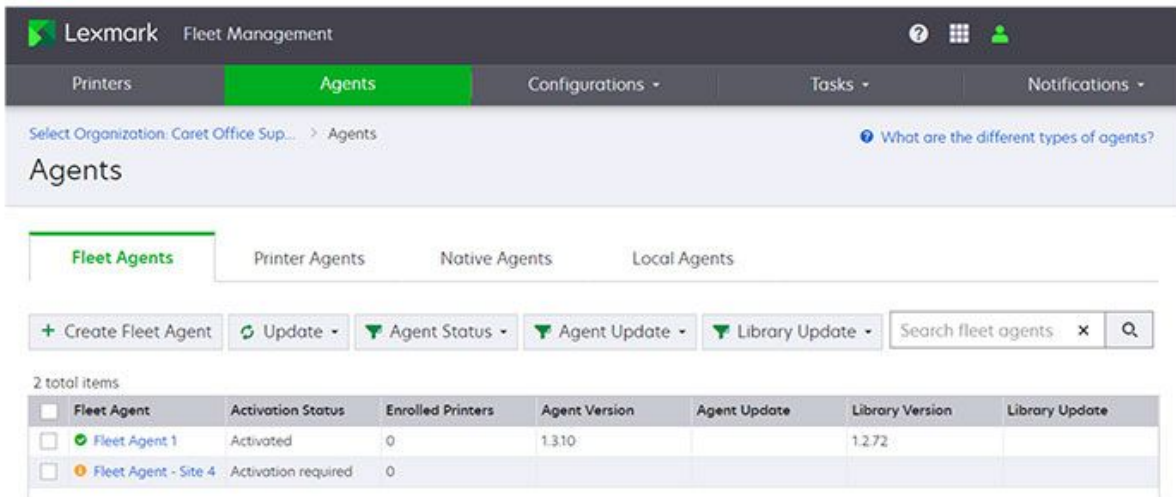
The enrollment code is invalid or expired.

## Using the Fleet Agent

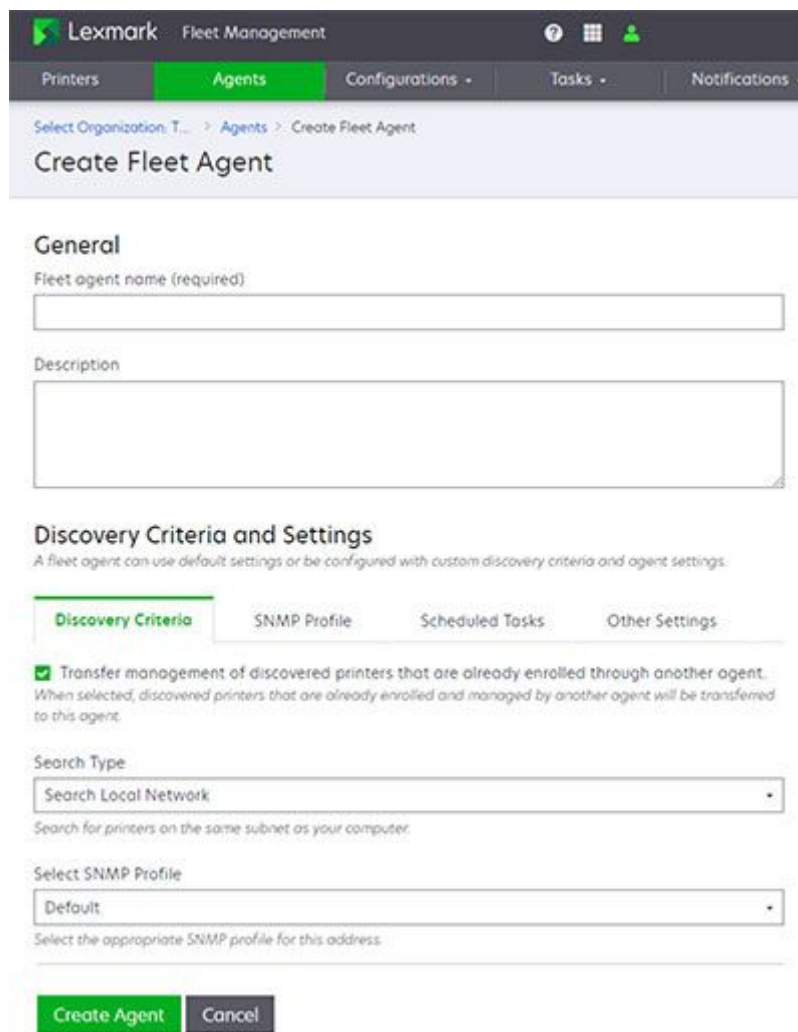
### Creating a Fleet Agent

Before using Fleet Agent, you must create an agent and establish settings that work best for your environment.

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



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



- **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

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 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

Enter address to include Select SNMP Profile

Default

Valid formats: 10.20.15.27, 10.20.15.\*, 10.20.\*\*,  
10.20.15.3-10.20.15.34, myprinter.domain.com Select the appropriate SNMP  
profile for this address.

 Enter at least one "Include" address.

### 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 version

Community name

Discovery timeout (seconds)

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

Number of retries

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

### 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

**Scheduled Tasks**

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

Once a week

Day of the week

Sunday

Time of day

1:17 PM



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

Every hour

- **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.



The screenshot shows the Lexmark Fleet Management interface. At the top, there's a navigation bar with 'Printers', 'Agents' (highlighted), 'Configurations', and 'Tasks'. Below this, the breadcrumb path is 'Select Organization: Caret ... > Agents > Fleet Agent - Site 4'. The main heading is 'Fleet Agent - Site 4'. A yellow warning box states: '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.' Below the warning, there's a menu with 'Edit Agent', 'Discover & Enroll Printers', 'Installation Package' (selected), and 'More'. The 'Installation Package' dropdown shows 'Download' and 'E-mail' options. On the right, there's a sidebar with 'Status', 'Identification', 'Agent Settings', and 'Back to top'. The main content area shows 'Status' with 'Agent status' and 'Activation required' (indicated by a red circle with an exclamation mark). Below that, there's 'Activation code' and a 'Generate activation code' link.

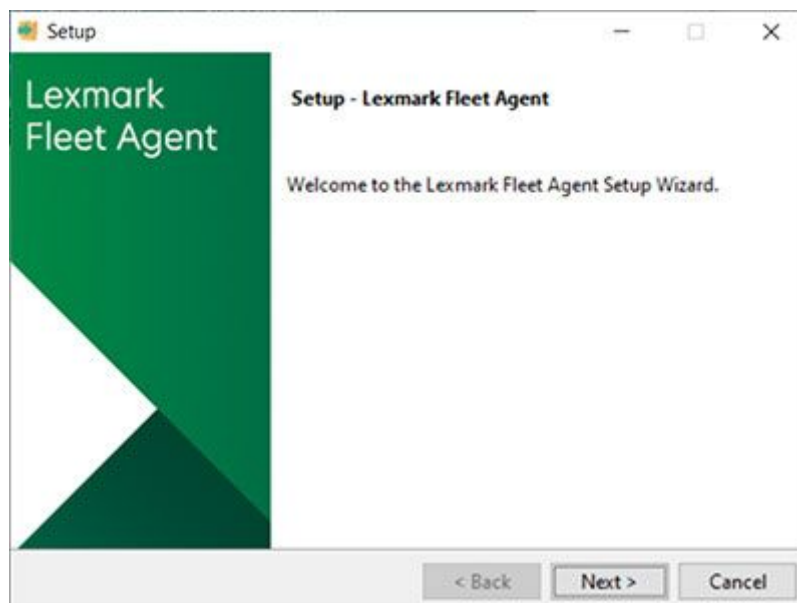
**Note:** The size of the installation package is about 140MB.

### 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.

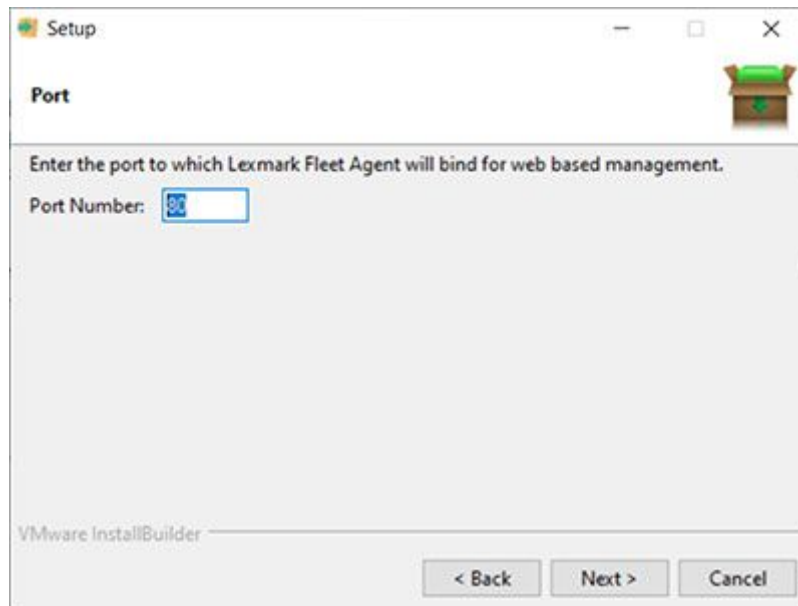
### Installing and activating a Fleet Agent

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





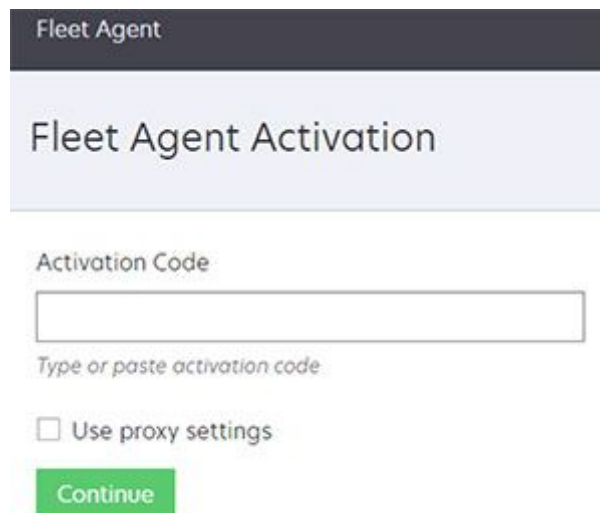
2. Accept the End-User License Agreement (EULA).
3. Enter the port number.



### 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**.



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 activated.

 Lexmark Fleet Agent  English ▾

## 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*

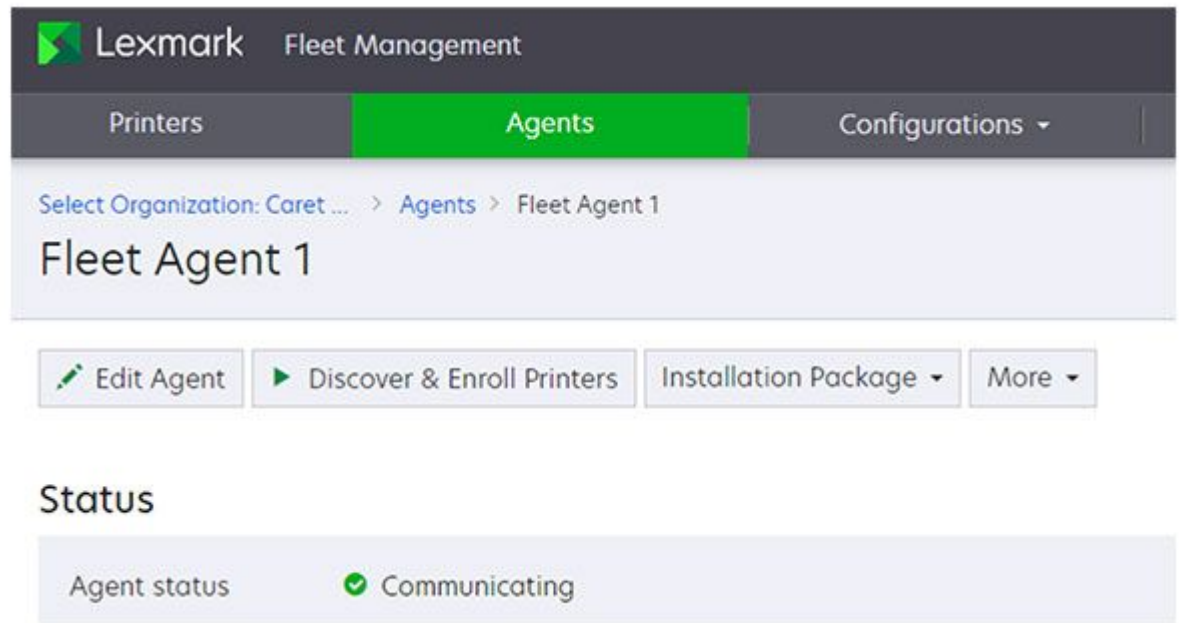
Password

*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

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

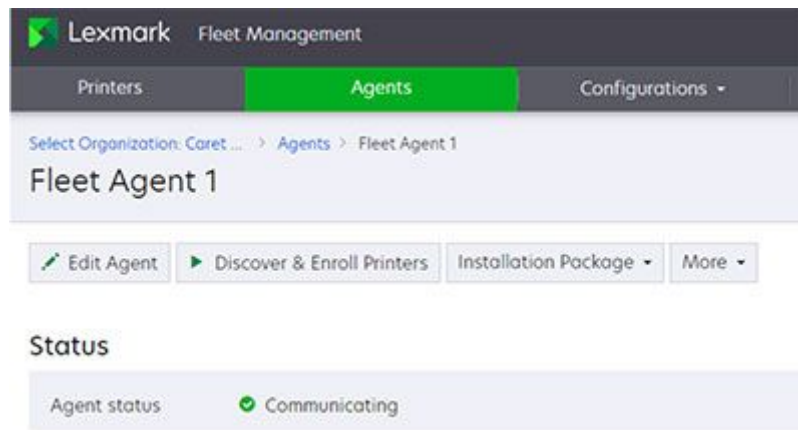
Username

Password

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**.

This screenshot shows a 'Request' button and a 'MIB Walk' section. The description reads 'Request to download a printer's MIB information'. There are two input fields: 'Printer address' with the value '10.148.15.126' and 'SNMP Profile' with a dropdown menu set to 'Default'.

4. Click **Download**.

This screenshot shows the same 'MIB Walk' form after a request has been submitted. The 'Request' button is now greyed out. The 'Printer address' field is empty. The 'SNMP Profile' dropdown is still set to 'Default'. In the top right corner, there is a link 'MIB: Download' and an expiration time: 'Expiration: 11/29/2022, 3:53:57 PM'.

### 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**.

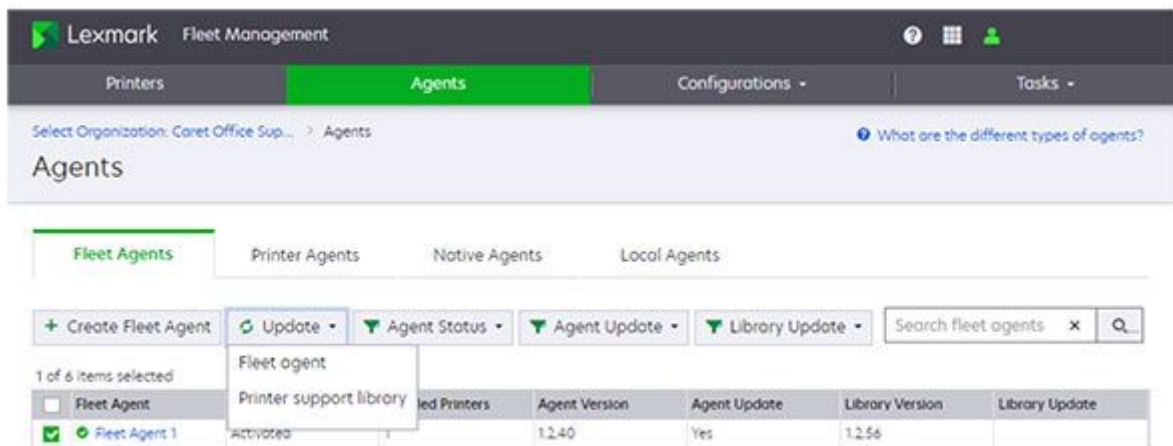
### Notes

- 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

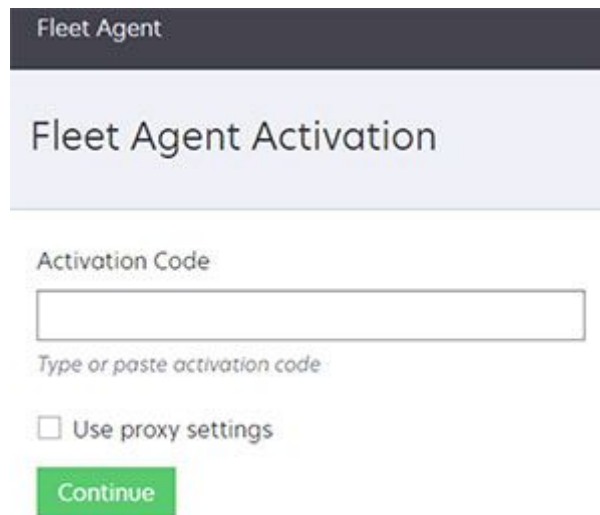
Deactivating the fleet agent suspends its printer management capabilities and removes associated printers from the Printers page. Reactivate the agent and start a discovery to restore printers and the fleet agent's management capabilities.

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**.



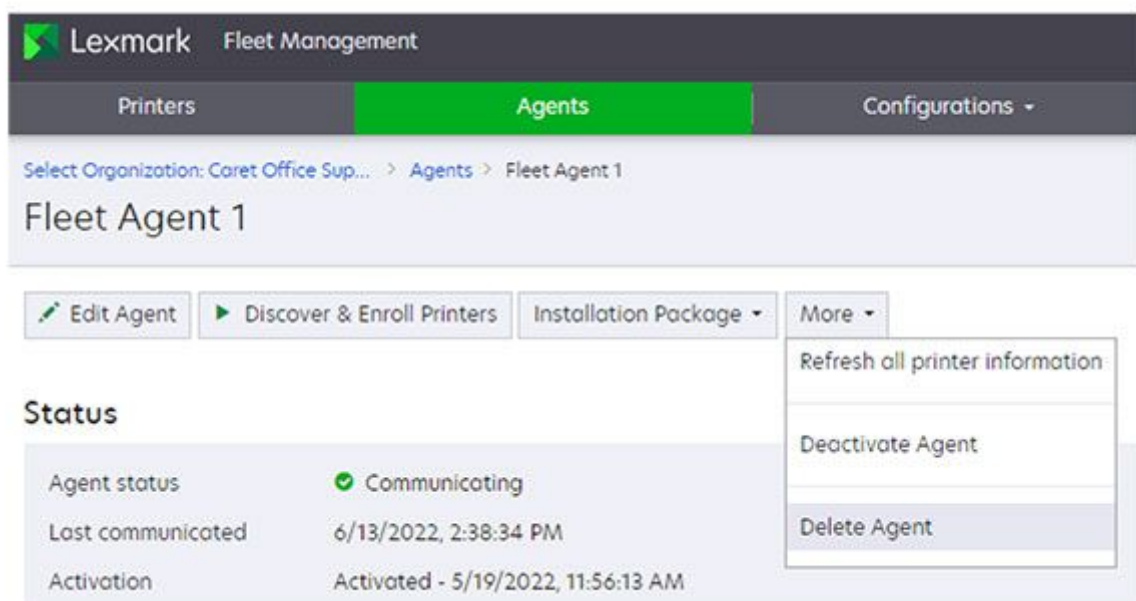
The screenshot shows a web form titled "Fleet Agent Activation". At the top, there is a dark header with the text "Fleet Agent". Below the header, the title "Fleet Agent Activation" is displayed in a large font. Underneath, there is a label "Activation Code" followed by a text input field. Below the input field, the text "Type or paste activation code" is shown. There is a checkbox labeled "Use proxy settings" which is currently unchecked. At the bottom of the form, there is a green button labeled "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**.

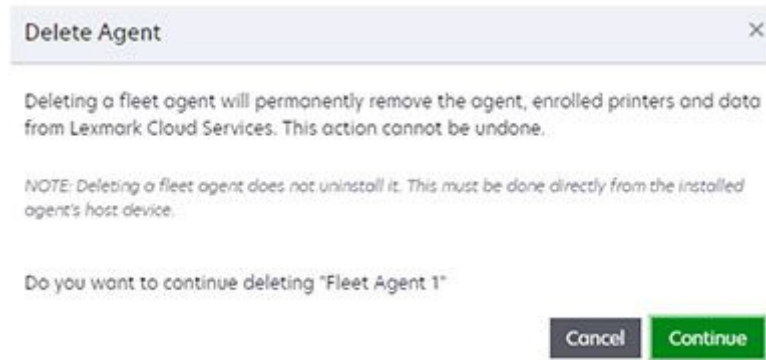


The screenshot shows the Lexmark Fleet Management web portal. The top navigation bar includes the Lexmark logo and "Fleet Management". Below the navigation bar, there are three tabs: "Printers", "Agents" (which is highlighted in green), and "Configurations". The breadcrumb trail shows "Select Organization: Coret Office Sup... > Agents > Fleet Agent 1". The main heading is "Fleet Agent 1". Below the heading, there are four buttons: "Edit Agent", "Discover & Enroll Printers", "Installation Package", and "More". The "More" button is open, showing a dropdown menu with three options: "Refresh all printer information", "Deactivate Agent", and "Delete Agent". Below the buttons, there is a "Status" section with a table:

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

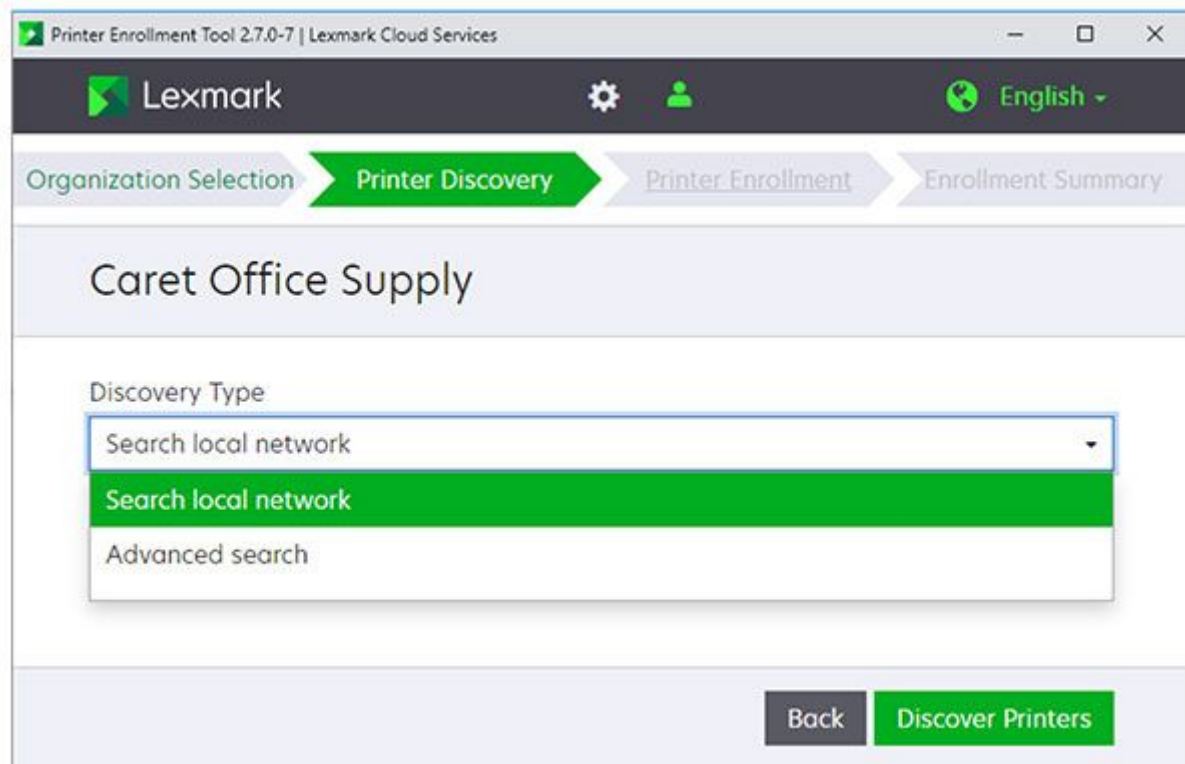
Version 1/2c

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" group.

- 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" group.

- 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"/>	 10.195.7.195	7559020008138	Not communicating
<input type="checkbox"/>	 10.194.2957	7564541010028	Agent needs credentials
<input type="checkbox"/>	 10.194.2953	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 36](#).
- 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" group. 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 36](#).

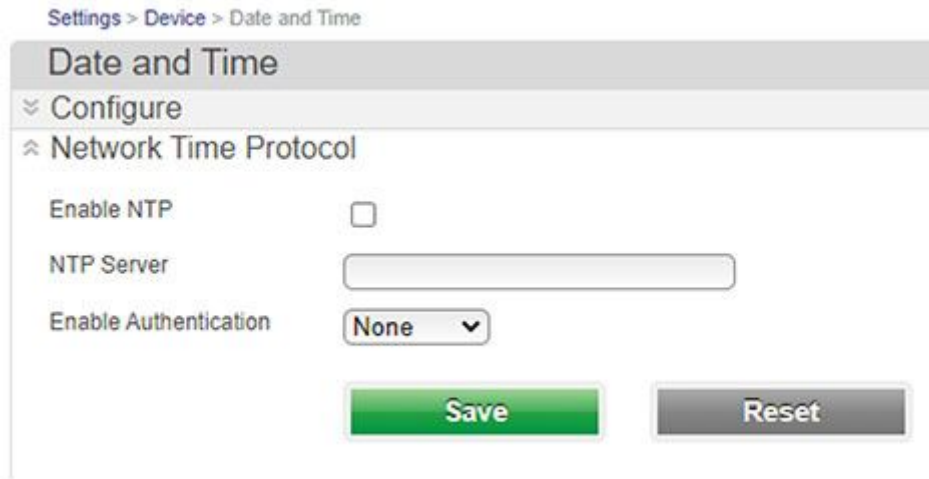
### Setting the correct date and time

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



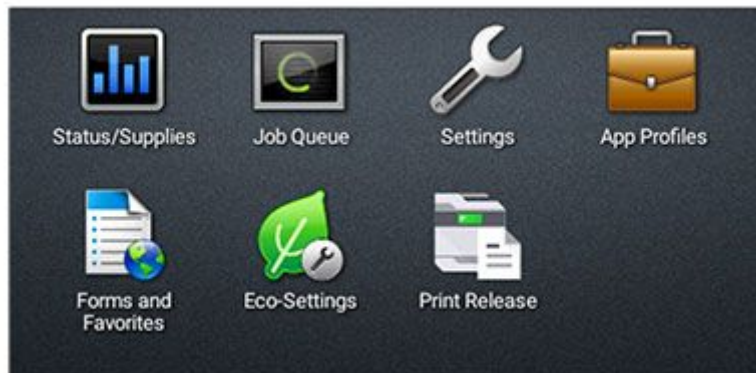


## Managing user accounts and printer permissions

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.

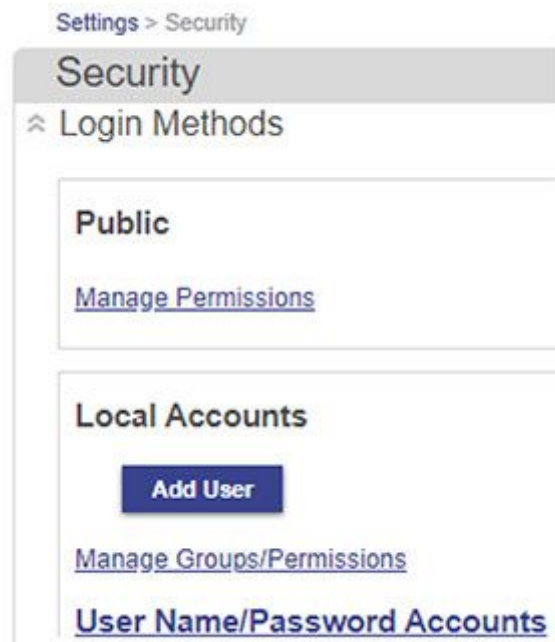
Access Control menu section	Access control to enable
Administration Menus	Security Menu

Access Control menu section	Access control to enable
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

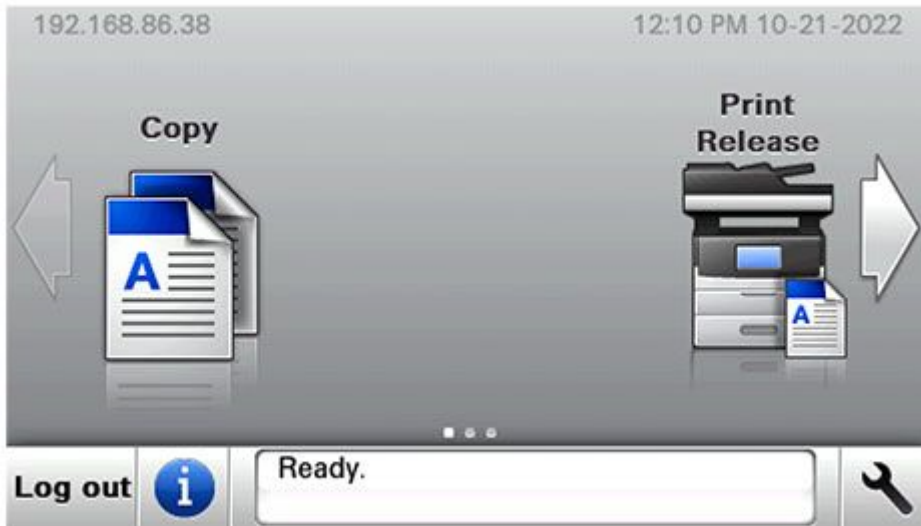
**Note:** The Lexmark\_PCA\_User account and the administrator group must not be changed or modified. Changing them after enrollment prevents the printer from processing Cloud Fleet Management requests.

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 Lexmark_PCA_User 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 Lexmark_PCA_User 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 Lexmark_PCA_User to the administrator group.

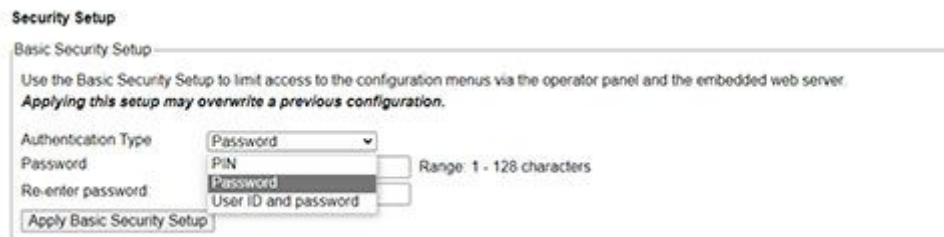
### e-Task version 4 or earlier printers

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" group.



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**.

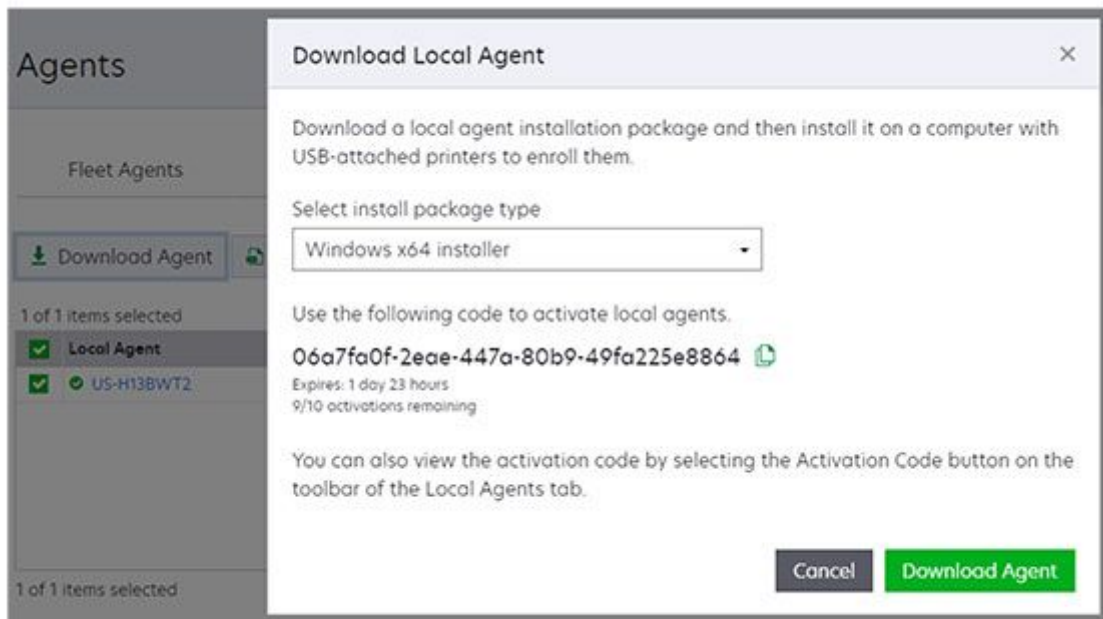
### 5. Accept and download the End-User License Agreement (EULA).

**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

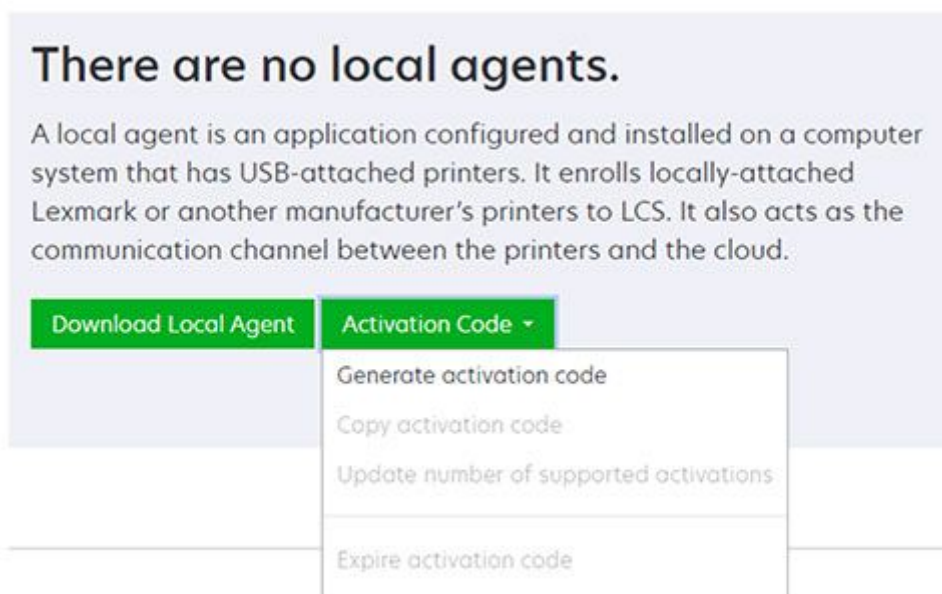
remaining until the activation code expires and the number of activations remaining are shown. Click **Download Agent** to download the installation package.



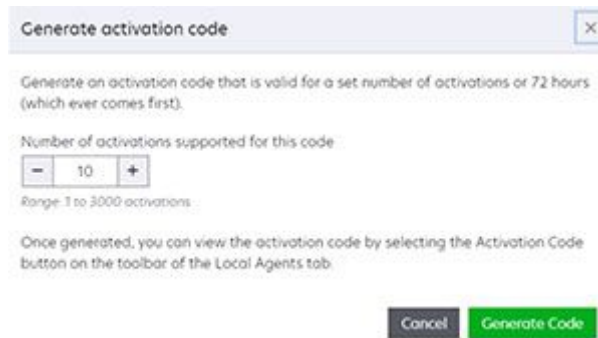
## Obtaining the activation code

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 152](#). 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**.

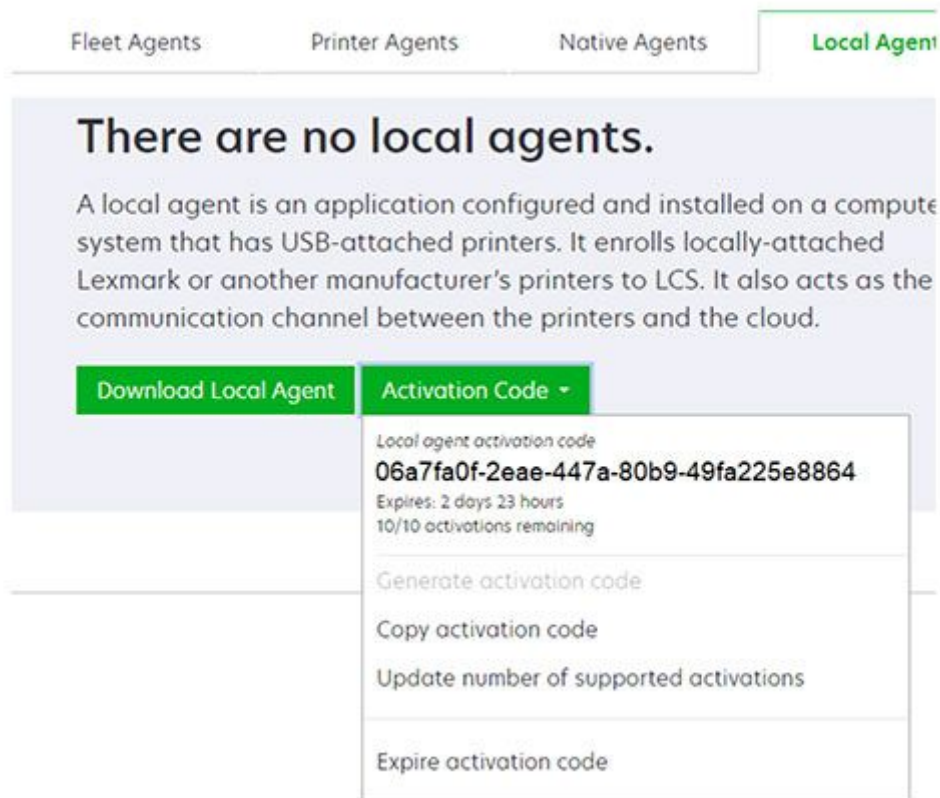


2. In the Generate activation code window, set the number of agents to be activated by the code.



3. Click **Generate Code**.

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



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.



Fleet Agents   Printer Agents   Native Agents   **Local Agent**

## There are no local agents.

A local agent is an application configured and installed on a computer 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

### 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

Range: 10 to 3000 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**.



### 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.

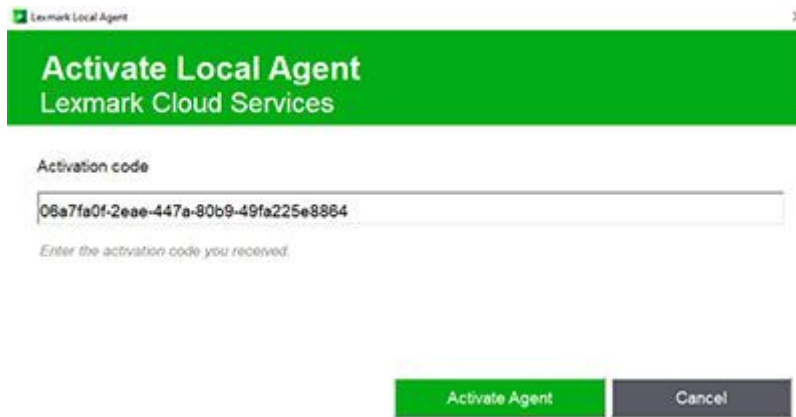
1. Run the Local Agent MSI file.
2. Follow the instructions on the computer screen.

#### Activating the agent manually

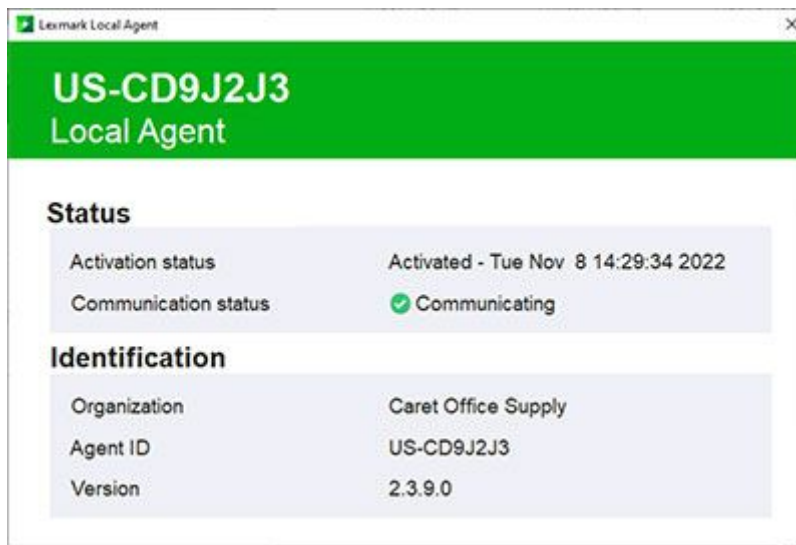
1. To manually activate the Local Agent, find and open the Lexmark Local Agent entry in the Windows menu.



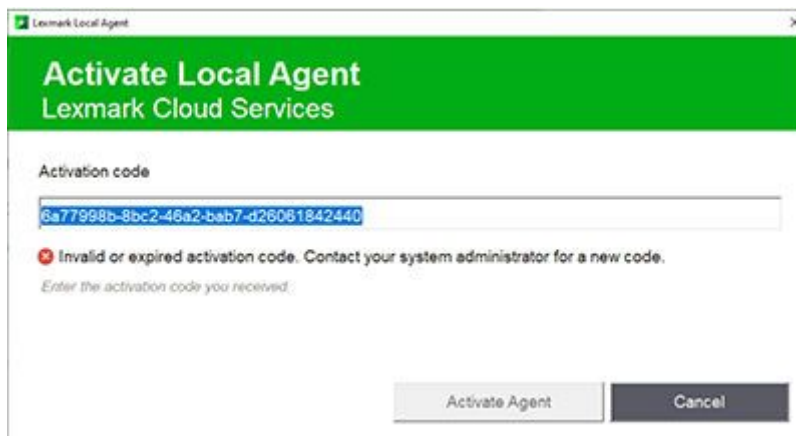
2. Enter the activation code, and then click **Activate Agent**.



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.

**Edit Local Agent** [X]

Log level  
Detailed [v]  
Set the level of detail provided when a log is run for this local agent.

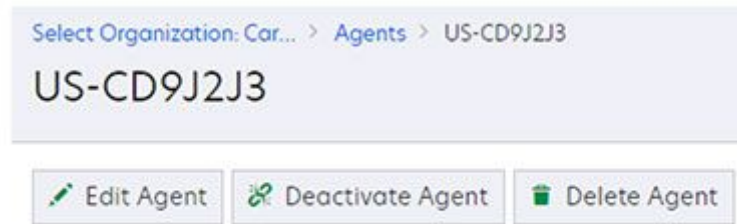
Refresh Printer Information Task  
Polling interval  
[ - ] 180 [ + ]  
Range: 15 to 1440 minutes

Cancel Save Changes

### 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

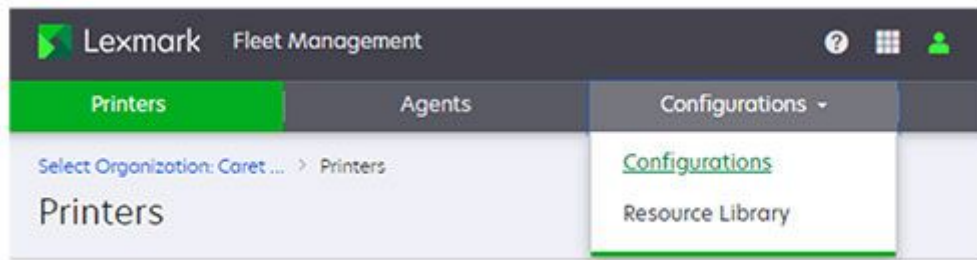
You can deploy configurations to one or more printers in a single action. Fleet Management services determine the correct version of firmware or eSF applications to deploy to each printer.

Deploy configuration in the following order:

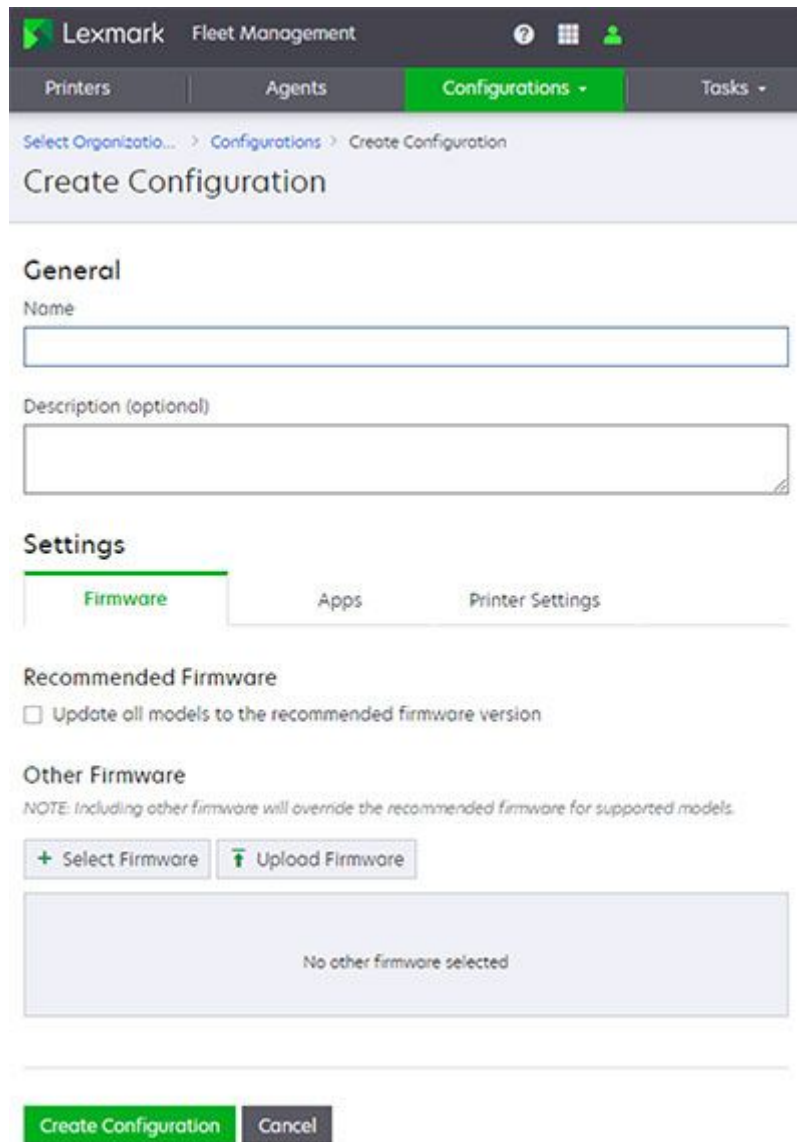
- Firmware
- Applications, in the same order that they appear in the configuration.
- Settings files, in the same order that they appear in the configuration.

### 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.

The screenshot displays the 'Create Configuration' page. The navigation bar shows 'Printers', 'Agents', 'Configurations' (active), and 'Tasks'. The breadcrumb trail is 'Select Organization...' > 'Configurations' > 'Create Configuration'. The main heading is 'Create Configuration'. Under the 'General' section, there are two text input fields: 'Name' and 'Description (optional)'. The 'Settings' section has three tabs: 'Firmware' (active), 'Apps', and 'Printer Settings'. Under 'Recommended Firmware', there is a checkbox labeled 'Update all models to the recommended firmware version'. Under 'Other Firmware', there is a note: 'NOTE: Including other firmware will override the recommended firmware for supported models.' Below the note are two buttons: '+ Select Firmware' and 'Upload Firmware'. A large light blue box contains the text 'No other firmware selected'. At the bottom of the page, there are two buttons: 'Create Configuration' (highlighted in green) and '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.

The screenshot shows the 'Settings' page with three tabs: 'Firmware' (selected), 'Apps', and 'Printer Settings'. Under the 'Recommended Firmware' section, the checkbox 'Update all models to the recommended firmware version' is checked. Below this, the 'Other Firmware' section contains a note: 'NOTE: Including other firmware will override the recommended firmware for supported models.' There are two buttons: '+ Select Firmware' and 'Upload Firmware'. A large light blue box below these buttons contains the text '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.

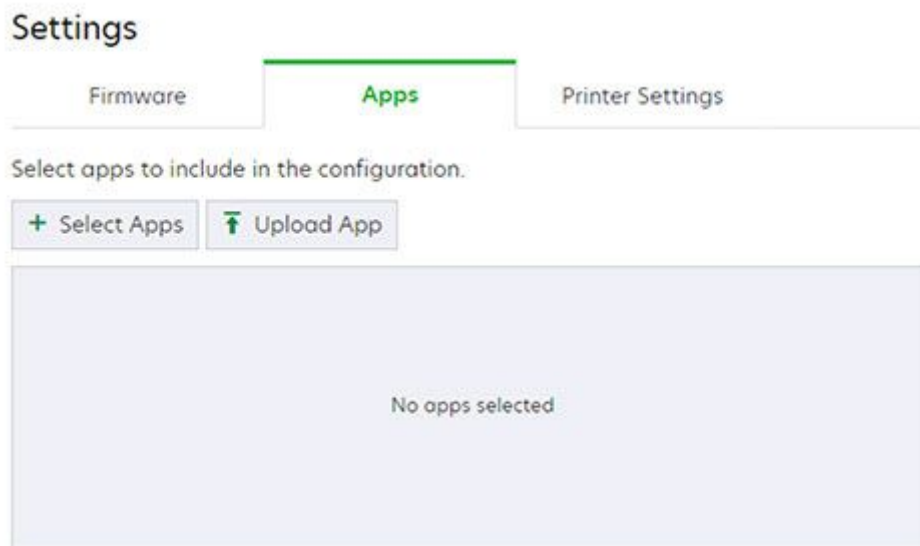
Specific firmware can also be uploaded to the Resource Library and automatically selected by clicking **Upload Firmware**, and then completing the form. For more information, see [Using Cloud Print Management clients on page 192](#).

## 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.

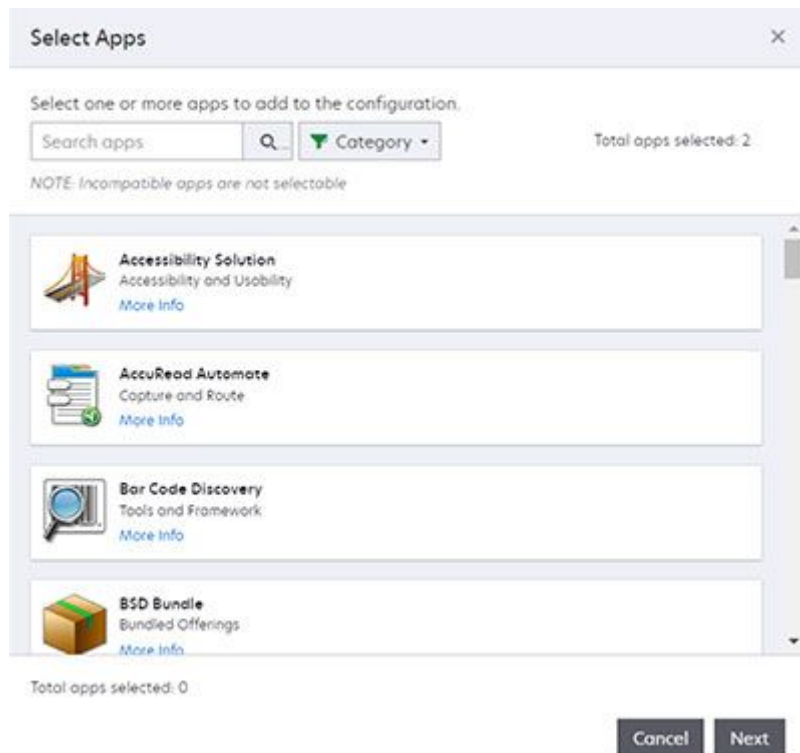
### Select Apps



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** [X]

Select one or more apps to add to the configuration.

Search apps [Q] Category [v] Total apps selected: 2

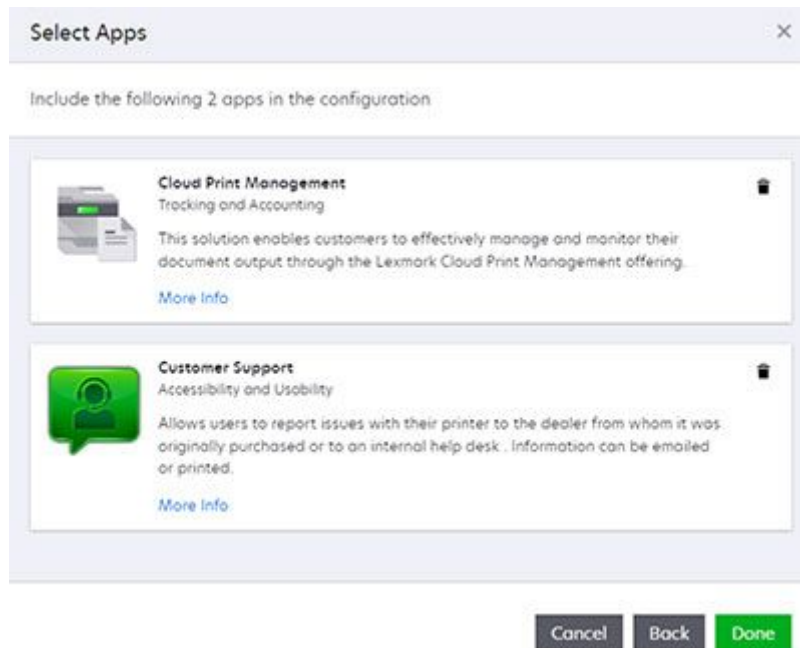
NOTE: Incompatible apps are not selectable

- Accessibility Solution**  
Accessibility and Usability  
[More Info](#)
- AccuRead Automate**  
Capture and Route  
[More Info](#)
- Bar Code Discovery**  
Tools and Framework  
[More Info](#)
- BSD Bundle**  
Bundled Offerings  
[More Info](#)

Total apps selected: 0

[Cancel] [Next]

After reviewing the form, click **Done**.



**Select Apps** [X]

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 192](#).

**Upload App** ×

Uploading an app will create an imported app resource in the Resource Library.

Resource name

Description (optional)

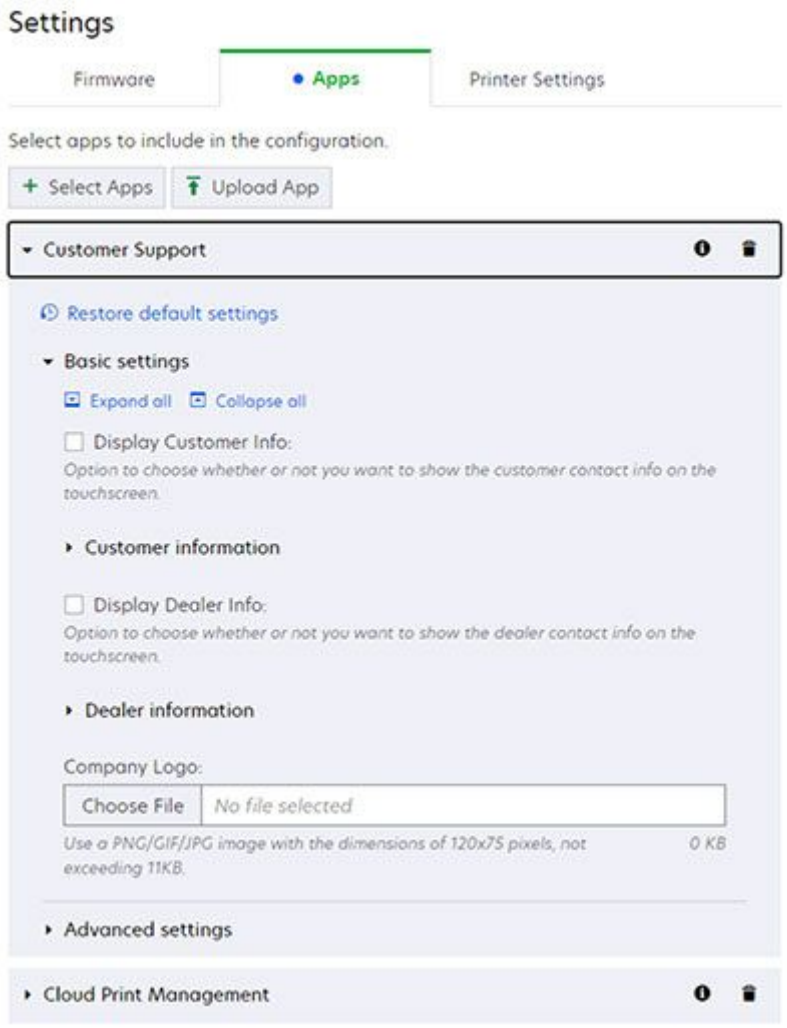
Choose an app file to upload into this resource. An app file typically has a .fis extension

*No file selected* 0 KB

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.

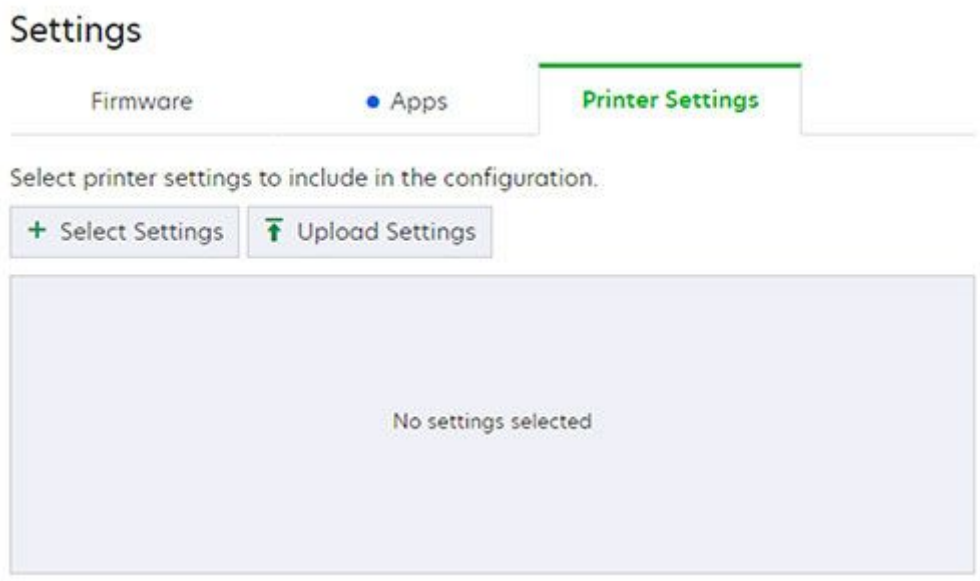
### App settings

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.



## 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.



**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

Upload Settings

Uploading settings will create a printer settings resource in the Resource Library.

Resource name

Description (optional)

Type

Select a resource type

UCF file

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 192](#).

## 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:

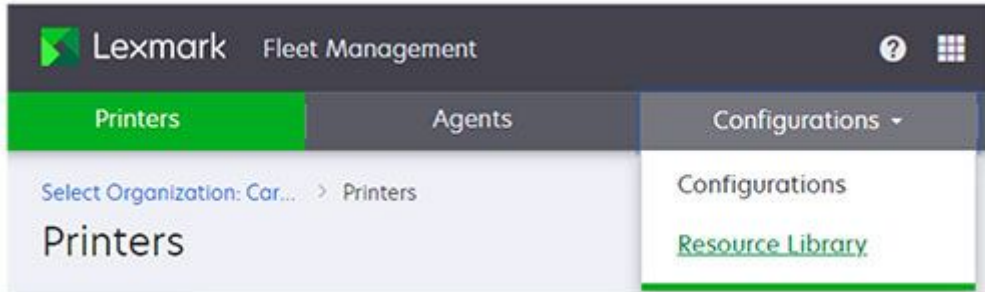
- Firmware
- eSF applications
- Printer setting files
  - Universal Configuration Files (UCF)
  - Bundles

There are two ways to add items to the Resource Library:

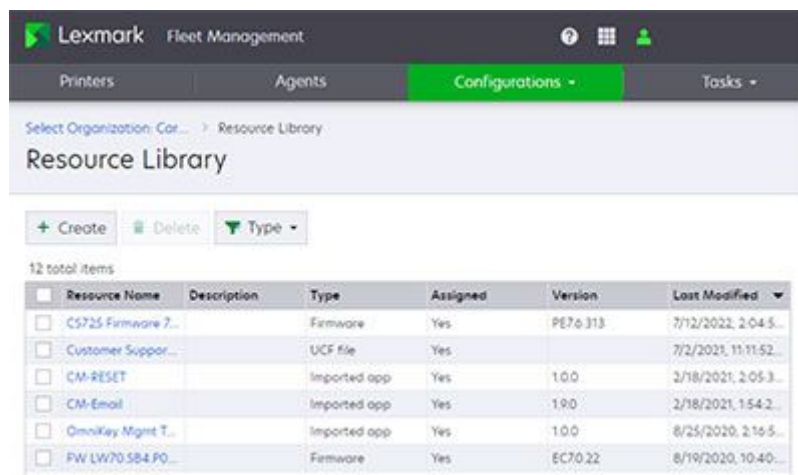
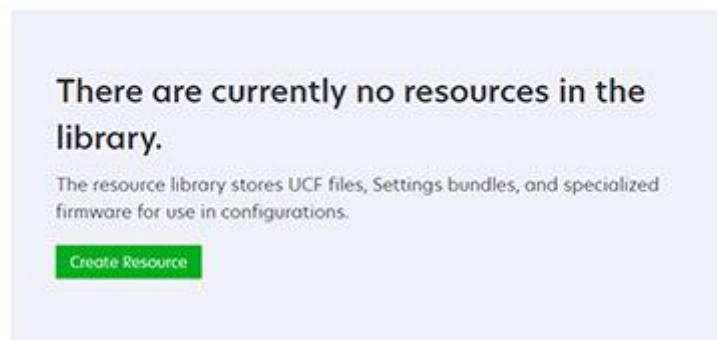
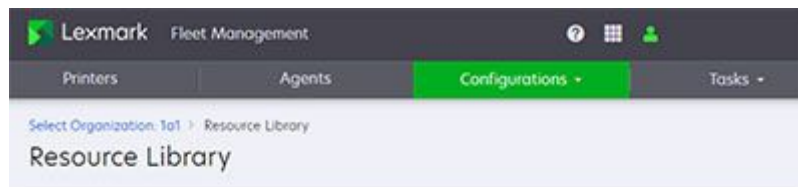
- Add files to the Resource Library for later use
- Add files to the Resource Library while creating a configuration

### Adding files to the Resource Library

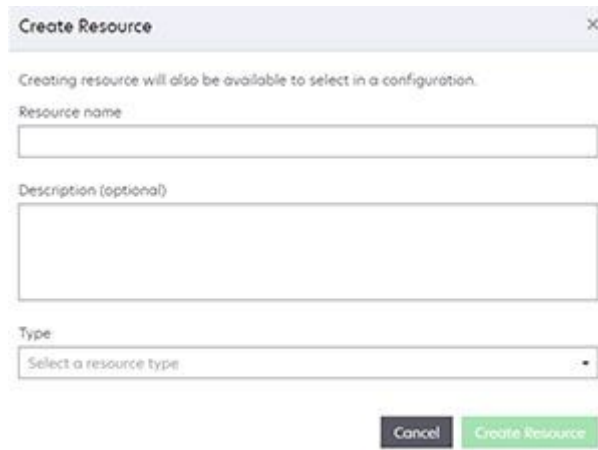
1. From the Fleet Management portal, click **Configurations > Resource Library**.



2. Click **Create Resource** or **Create**.



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  
CSTAT077303 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 .fis extension

Choose File cloudAuth\_e6-5.6.31.fis 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 .fis extension

Choose File cloudAuth\_e2-4\_1.fis 1008.32 KB

Invalid App File

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 341](#).



### 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

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'.

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**.

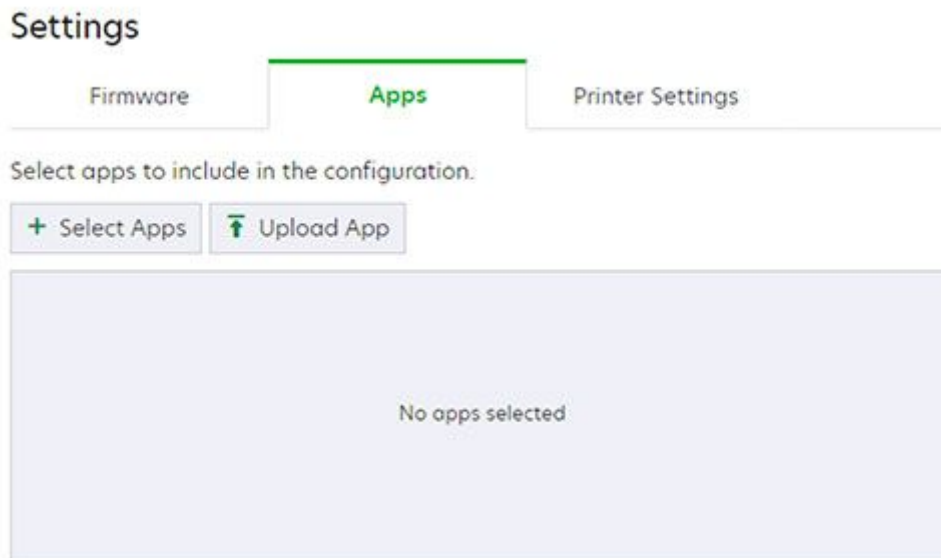
#### Notes

- 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.

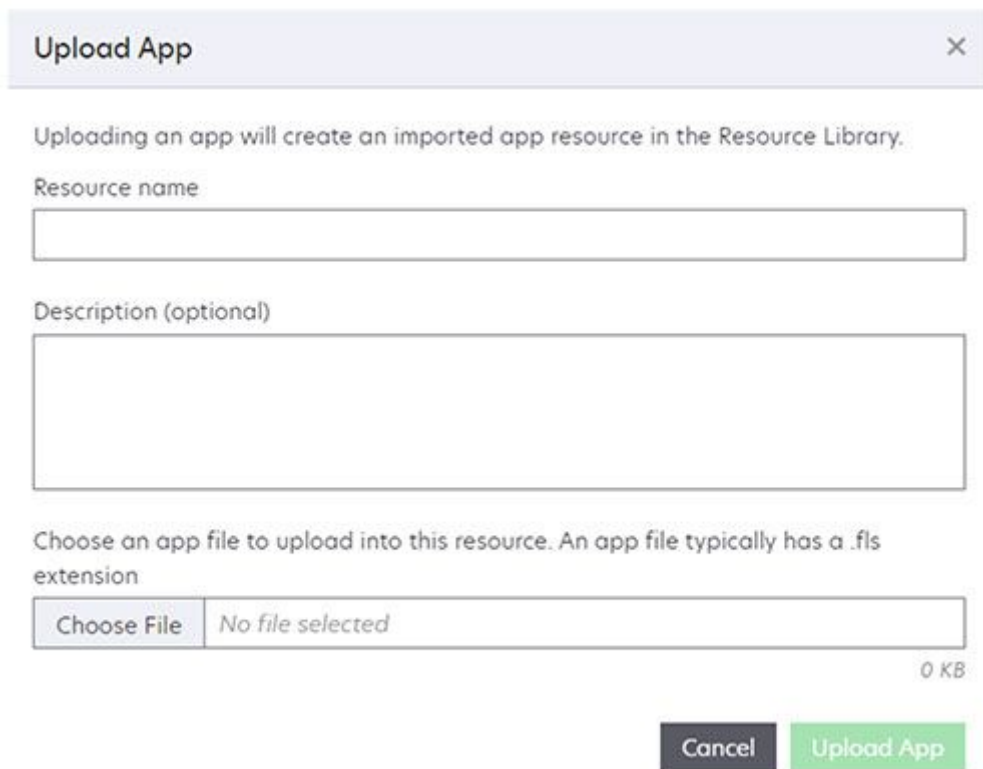
4. Click **Upload Firmware**.

### Adding apps to a configuration and the Resource Library

1. From the Apps tab on the Create Configuration page, click **Apps > Upload App**.



2. Type a unique name and description.



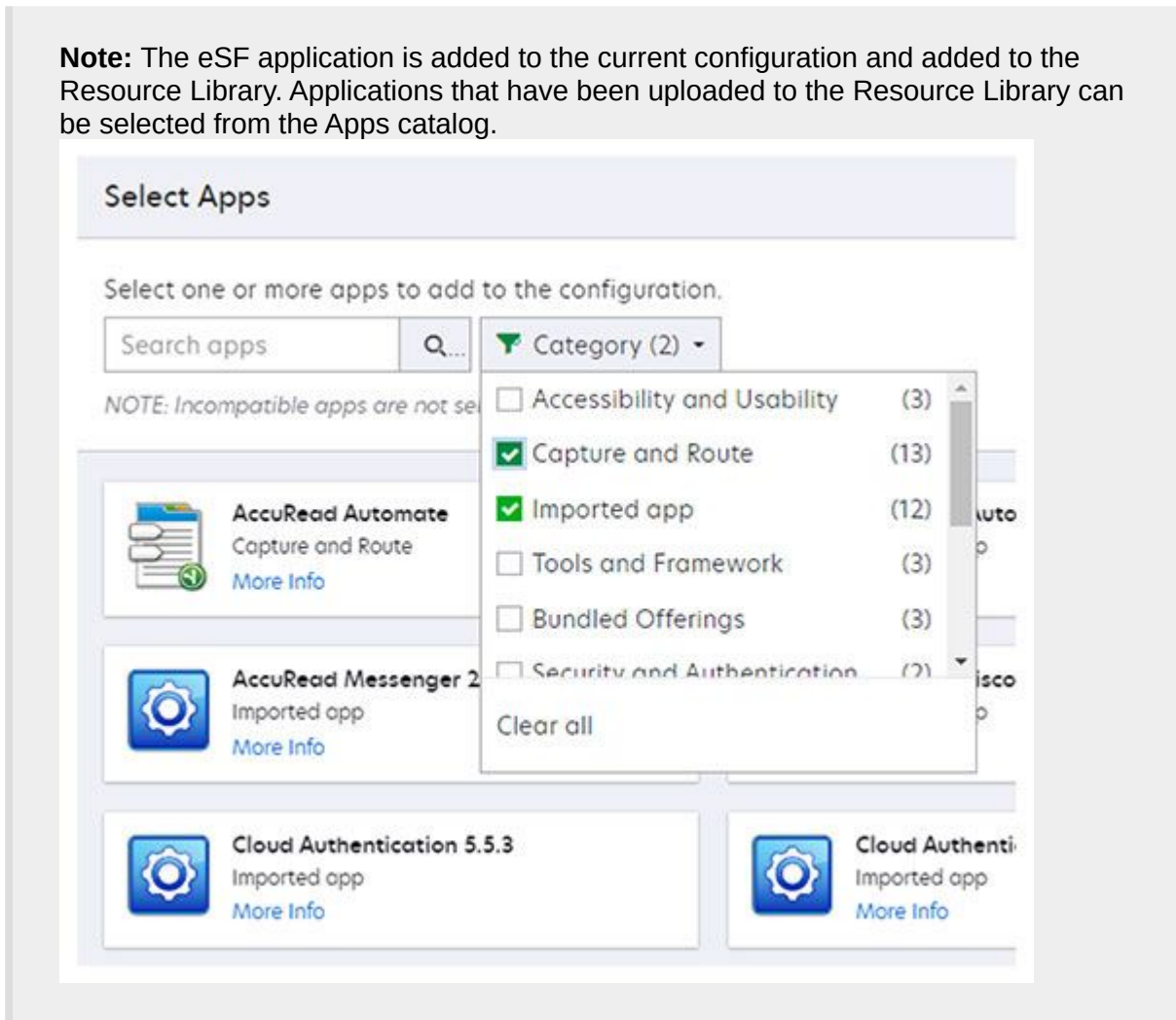
3. Click **Choose File** to browse to the esf application file.

**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.

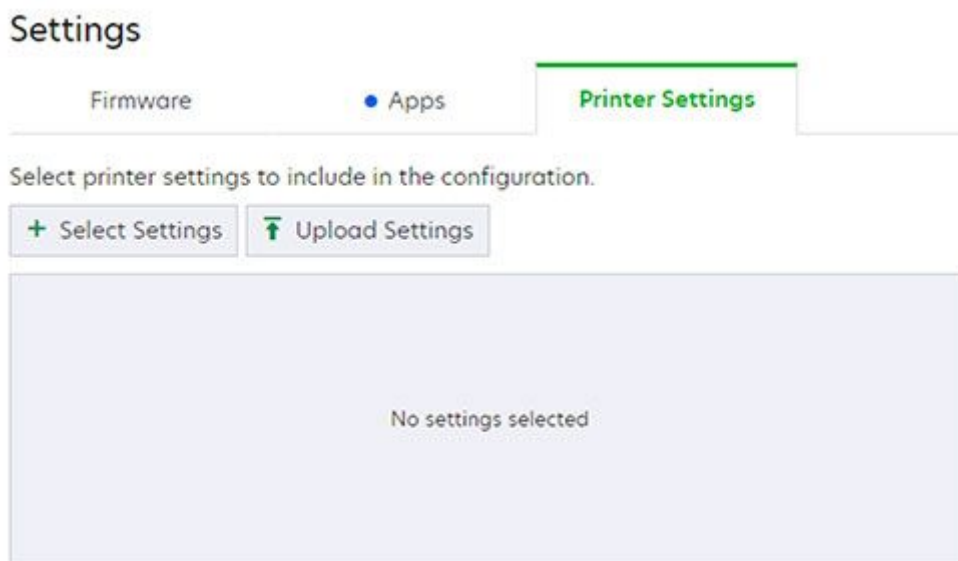
### 4. Click **Upload App**.

**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**.

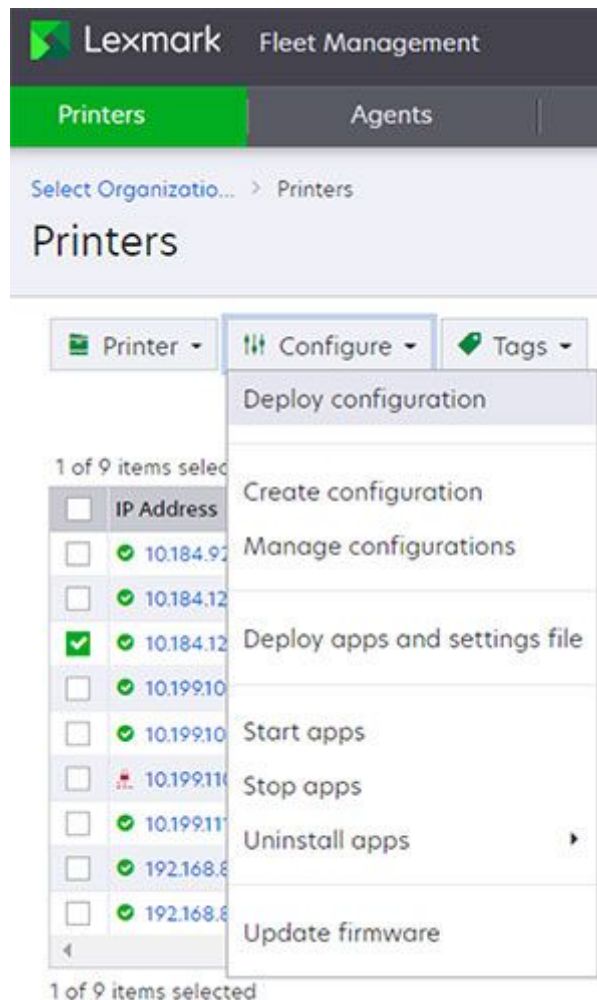
**Note:** You can use UCF files and Settings bundle files to clone settings from one printer to another or to define a standard configuration for printers.

## Deploying a configuration

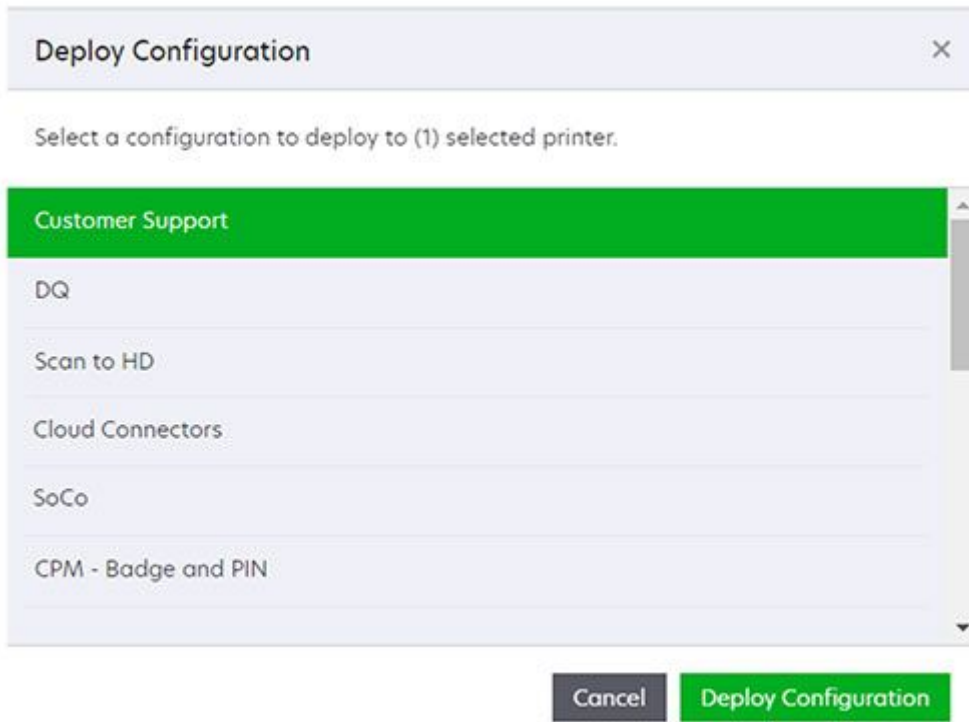
You can apply a configuration to multiple printers simultaneously and then reuse it anytime.

- 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

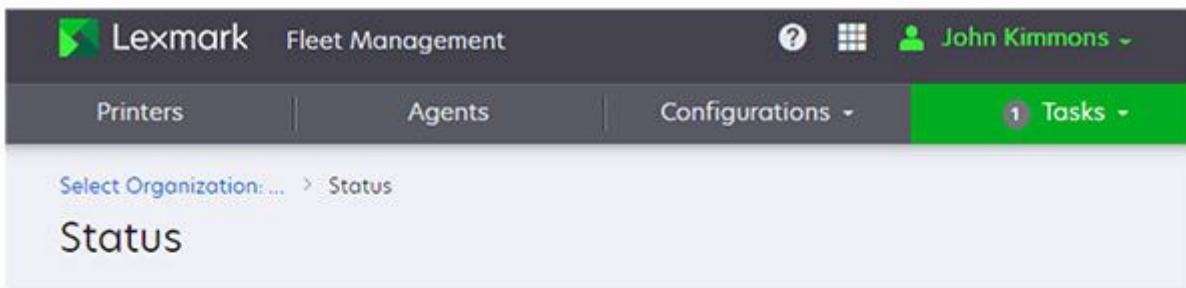
### 1. From the Fleet Management portal, click **Printers > Configure > Deploy configuration**.



### 2. Choose the configuration to deploy, and then click **Deploy configuration**.



**Note:** You can view the status of the deployment in the Tasks tab.



### Currently Running Tasks (1)

1 total item

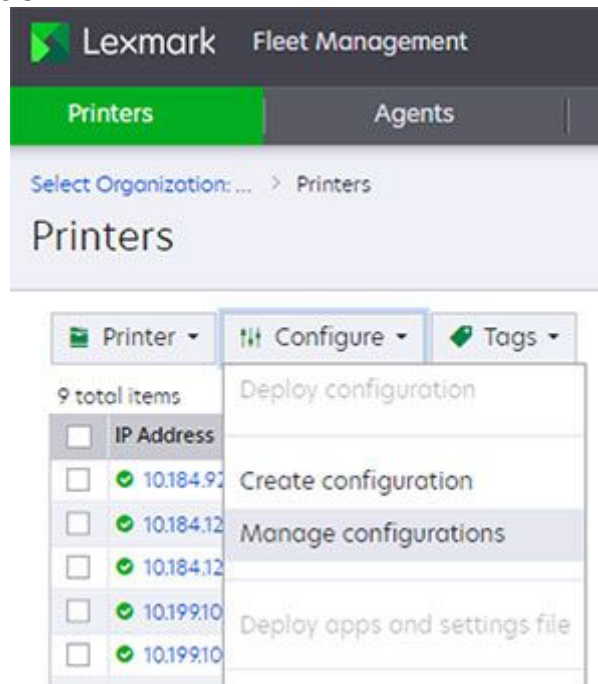
Task ID	Type	Details	Started	Status
12834330	Deploy configuration	1 printer	7/13/2022, 11:13:50 AM	<div style="width: 0%;"></div> 0%

1 total item

### 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.

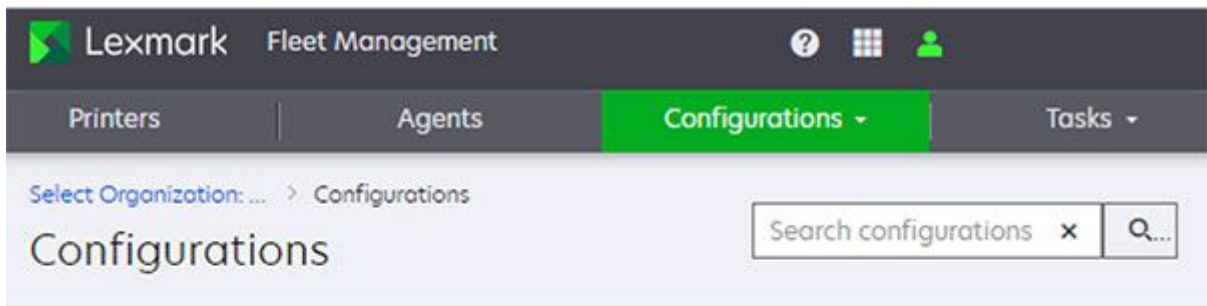
**Note:** After deploying a configuration, it cannot be edited.

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.



<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

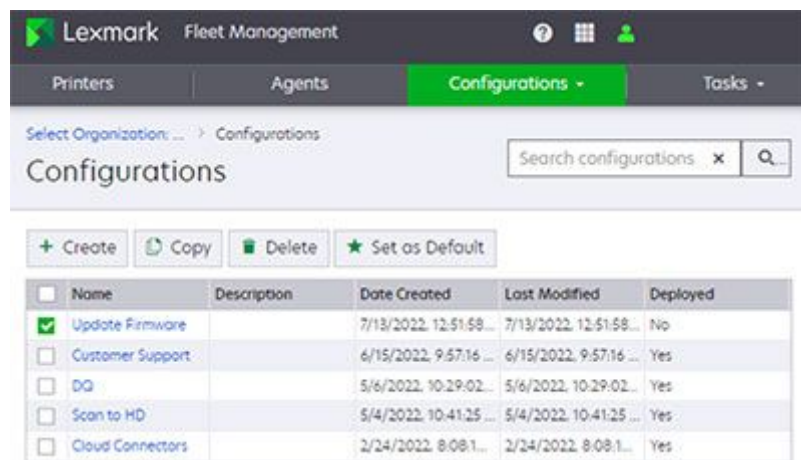
**Note:** If the name of a deployed configuration is clicked, an error message is shown.

 This is a deployed configuration and cannot be modified.

2. Edit the configuration, and then click **Save Changes**.

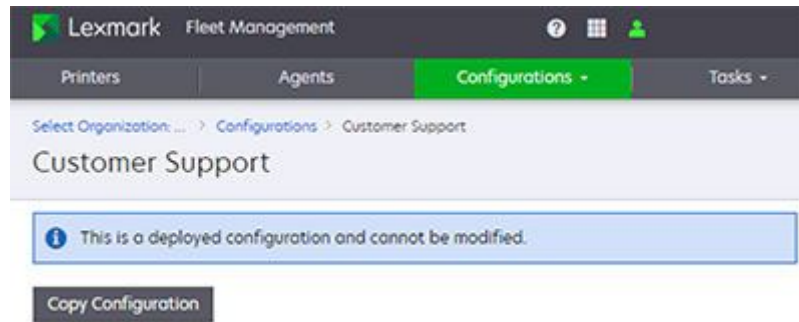
### Copying a configuration

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.



**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**.



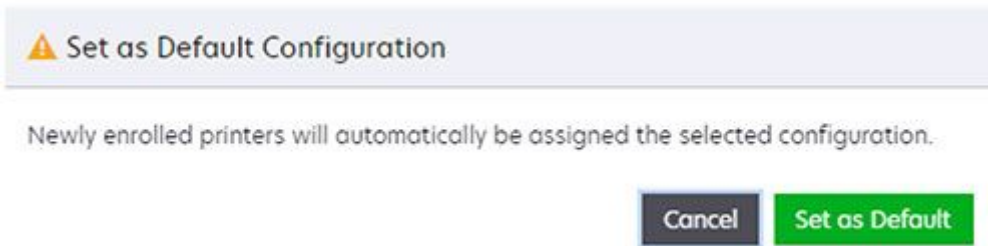
### Setting or removing a default configuration

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**.

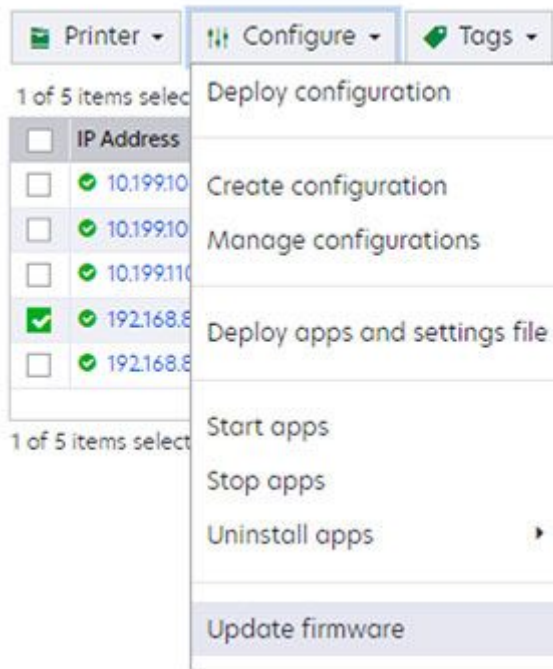


## Deploying files without using a configuration

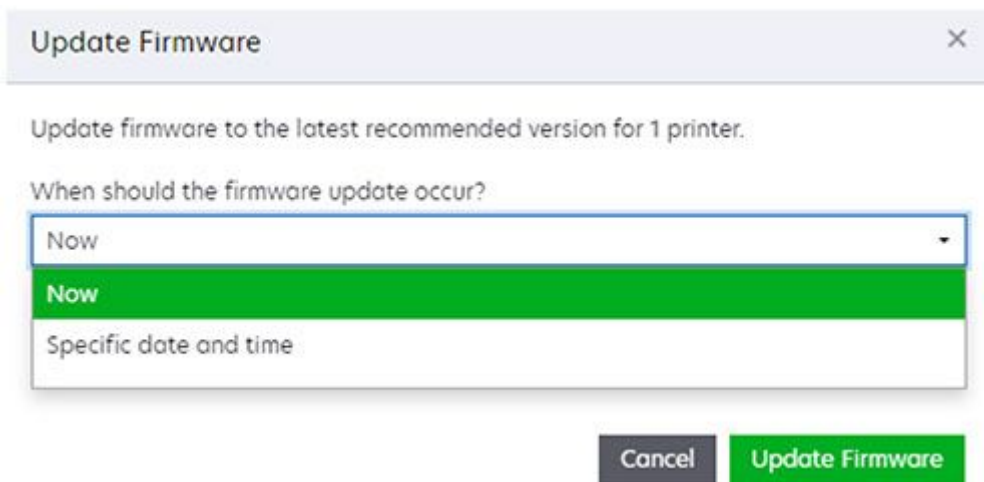
### Deploying a firmware

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.

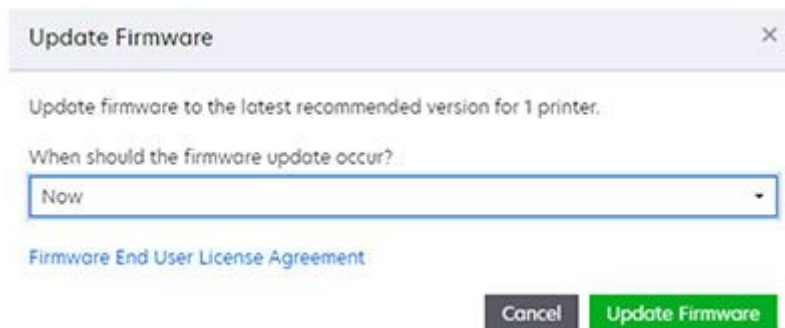
1. From the Fleet Management portal, in the Printers page, select one or more printers.
2. Click **Configure > Update Firmware**.



3. In the Update Firmware window, select any of the following:



- **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.



**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

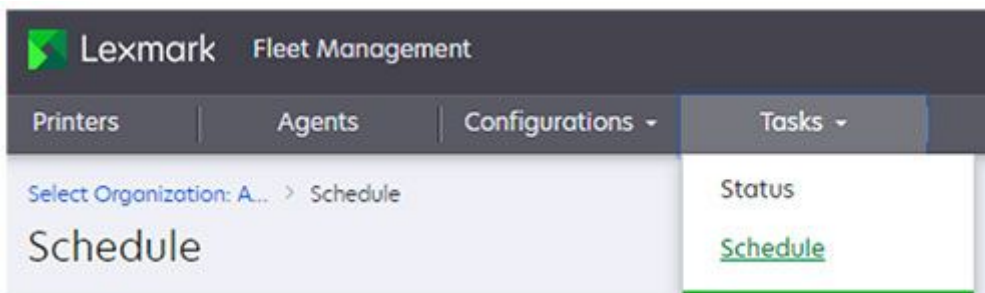
The Update Firmware window shows date and time selection options. Firmware on the selected printers are updated at the date and time specified. An Update firmware task is sent to the agent associated with each selected printer at the date and time specified. The latest recommended version of firmware is sent to each selected printer.

**When should the firmware update occur?**

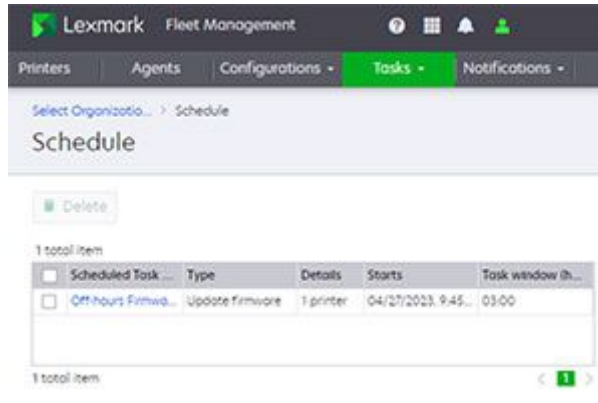
This menu toggles the Update Firmware window between the Now and Specific date and time options.

**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:

Start time:

Time zone:

### 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:    *Range: 1 - 23 hours.*

Minutes:    *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.

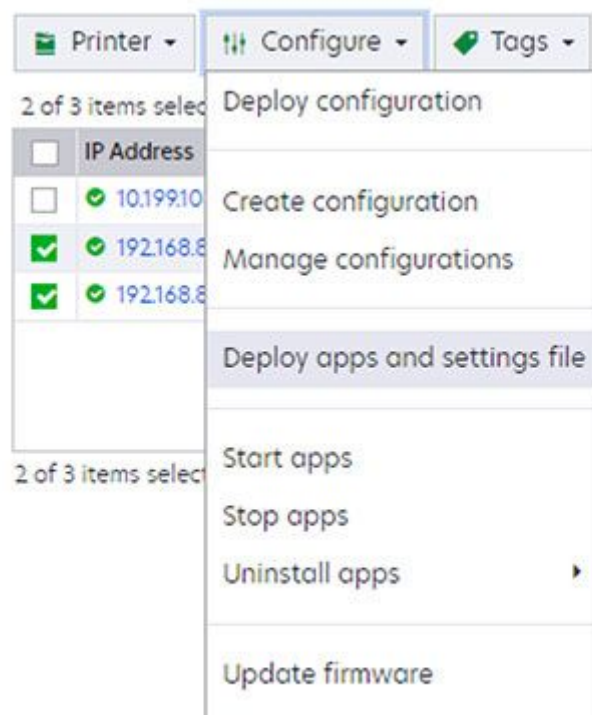
4. Click **Update Firmware**.

## Deploying applications and settings

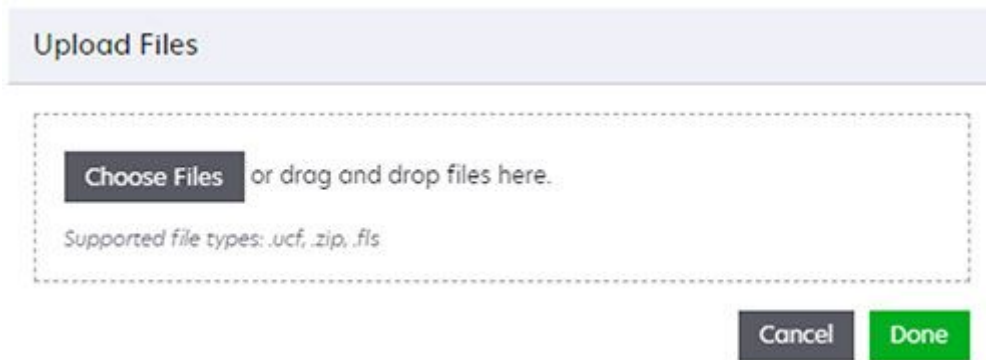
You can deploy printer applications and settings files to printers without having to create a configuration.

**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 236](#).

## Assigning roles

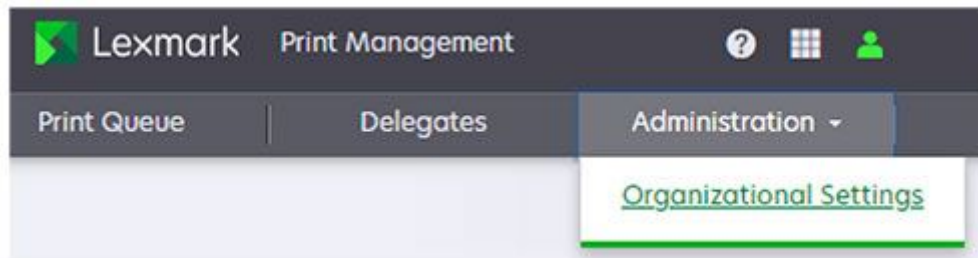
User roles are managed from the Account Management portal. You can assign roles to users in three ways:

- **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 235](#).

## 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 363](#).



**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  
 @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 the organization.

Create direct print assignments using:  
 Cost center or personal  
 Department or personal

**Print Job Retention**  
Delete print jobs older than  
   
1-7 days

**Print Job History**  
Show print job history for the last  
   
1-7 days

**Universal Print Integration**

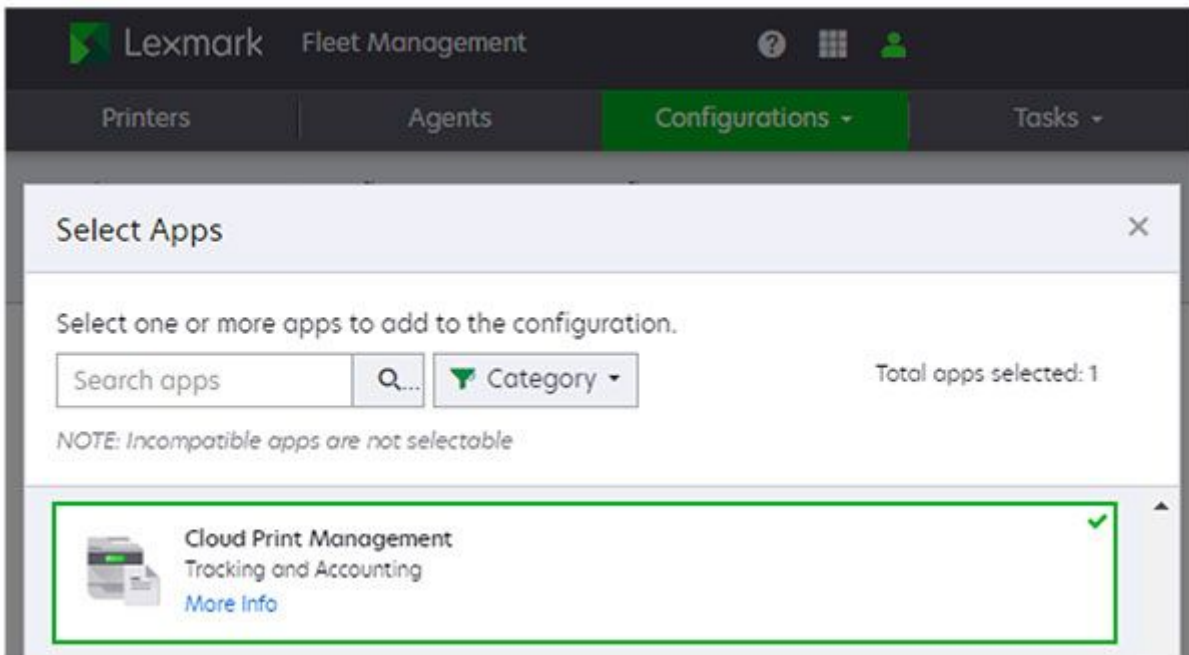
**Enable Universal Print**  
Registers a printer to Azure Active Directory(AZ) for releasing print jobs through Cloud Print Management.

## 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 341](#).

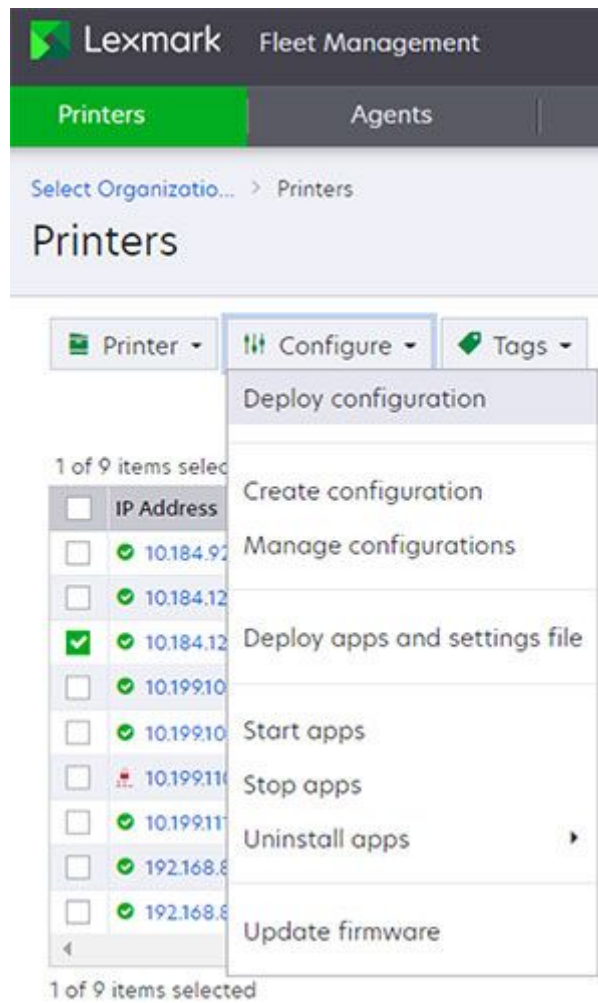


**Note:** Only printers managed by Cloud Fleet Management can have the Cloud Print Management bundle deployed from the Fleet Management portal.

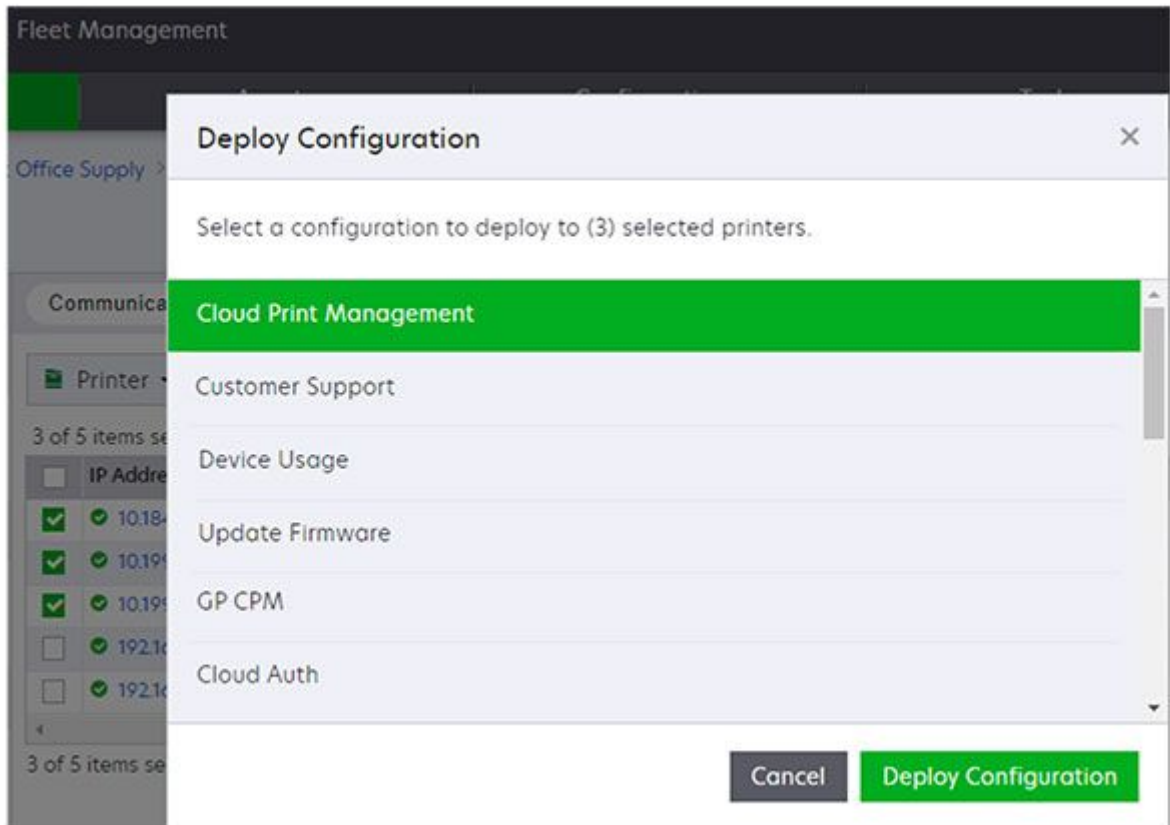
### Deploying a Cloud Print Management configuration

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 176](#).

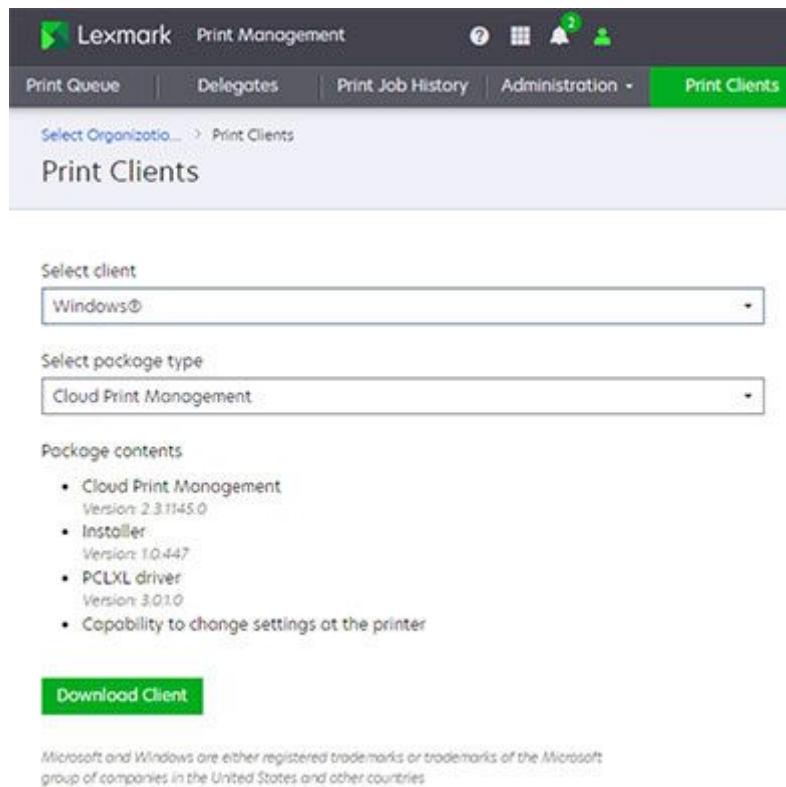
## Using Cloud Print Management clients

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.

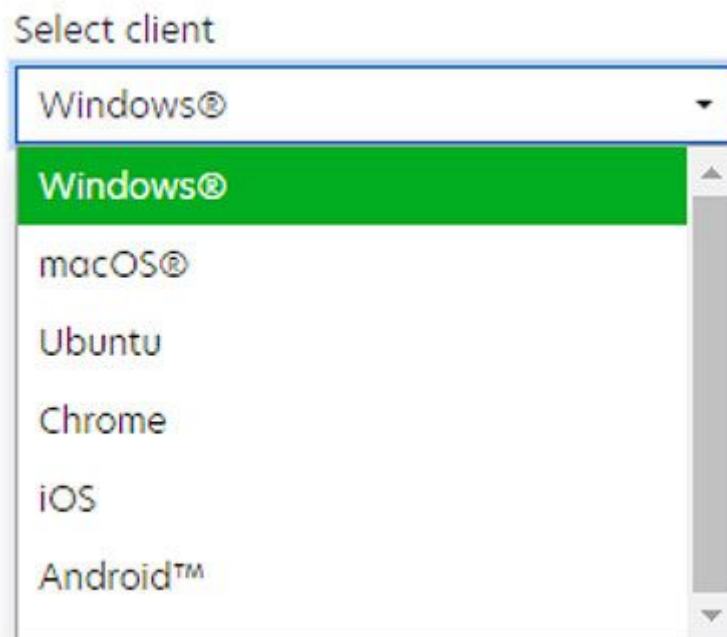
### Downloading a client package

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:

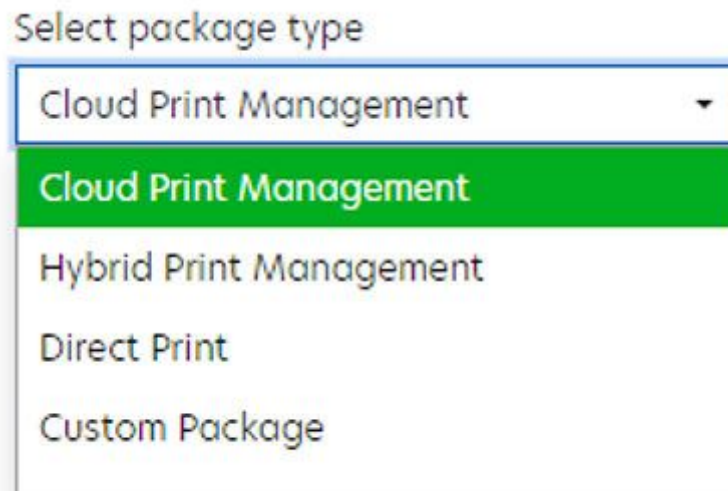


- **Windows®**
- **macOS®**
- **Ubuntu**
- **Chrome**—The Cloud Print Management for Google Chrome™ extension on the Chrome Web Store for use with the Google Chrome operating system and Chrome browser
- **iOS**—The Lexmark Print application for iOS on the Apple App Store online store
- **Android™** —Lexmark 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" group.

## 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):

Range: 1 - 100 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

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

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 personal.

**Cost Centers**

Personal

1 total item

Assignment Name	Cost Centers	Printer Tags
<input type="checkbox"/> A2 - Direct Print Assign...	Benefit	Lexmark HL - Direct Pr...

1 total item View


**Print Driver Type**  
 PCL XL  
 PCL 5  
 Postscript  
 Exclude Print Driver

**Set Default Printer**  
 Cloud Print Management  
 Hybrid Print Management  
 None

Once the custom package is ready, click **Create > Download**.

### ↓ Create Custom Package

Your custom package is ready for downloading.



**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 380](#).

### 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 385](#).

- 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 384](#).

#### 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" group.

## 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 396](#).



**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 199](#).
2. Enable Direct Print for the organization. For more information, see [Enabling Direct Print on page 199](#).
3. Create Direct Print assignments. For more information, see [Creating Direct Print assignments on page 200](#).
4. Download and install the Lexmark Print Management Client configured for Direct Print. For more information, see [Using Direct Print clients on page 205](#).

### 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" group.
- For more information on roles, see [Understanding roles on page 236](#).

## 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" group.

## 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" chapter.

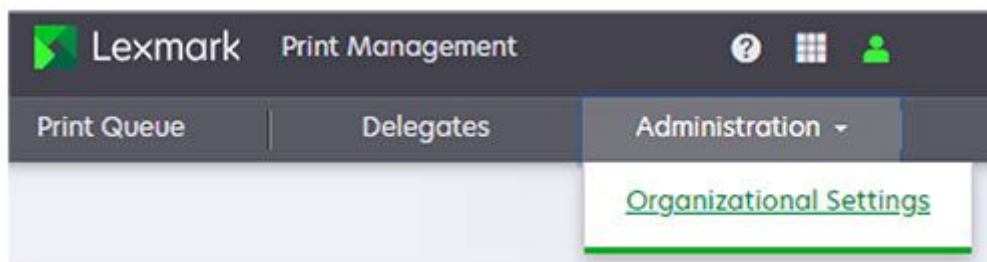
For more information on applying tags to printers, see the following:

- [Creating tags on page 327](#)
- [Assigning tags to printers on page 327](#)

## 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.

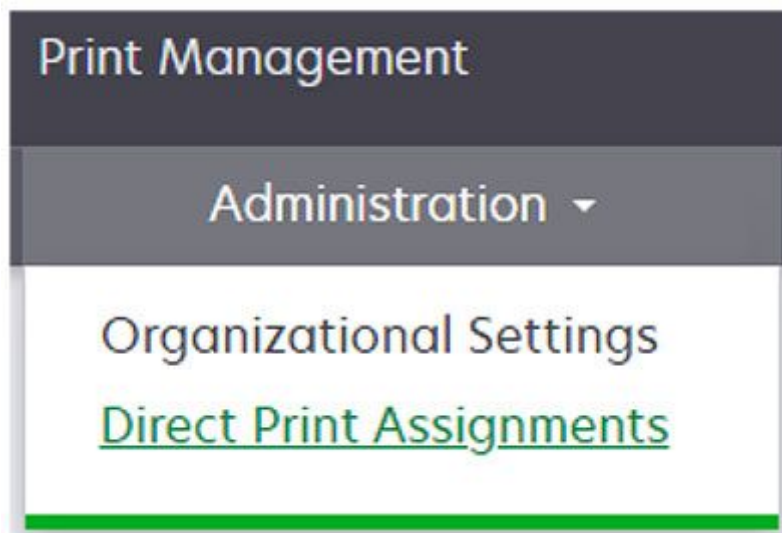
Create direct print assignments using

- 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

**i** 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"/>	Direct Print by Cost Center	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** [X]

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

*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 ✕

**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.

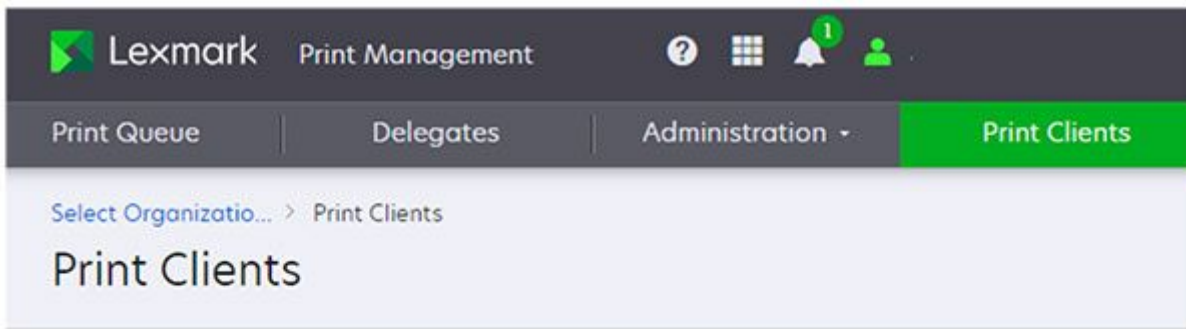
OK

## 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.



Select client

Select package type

- Cloud Print Management
- Hybrid Print Management
- Direct Print**
- 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 192](#).

### 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	coretjim@outlook.com	Local Printer

1 of 1 items selected

View 25

< 1 >

[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	caretjm@outlook.com	Local Printer

1 of 1 items selected View 25 < 1 >

**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 380](#).

## 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

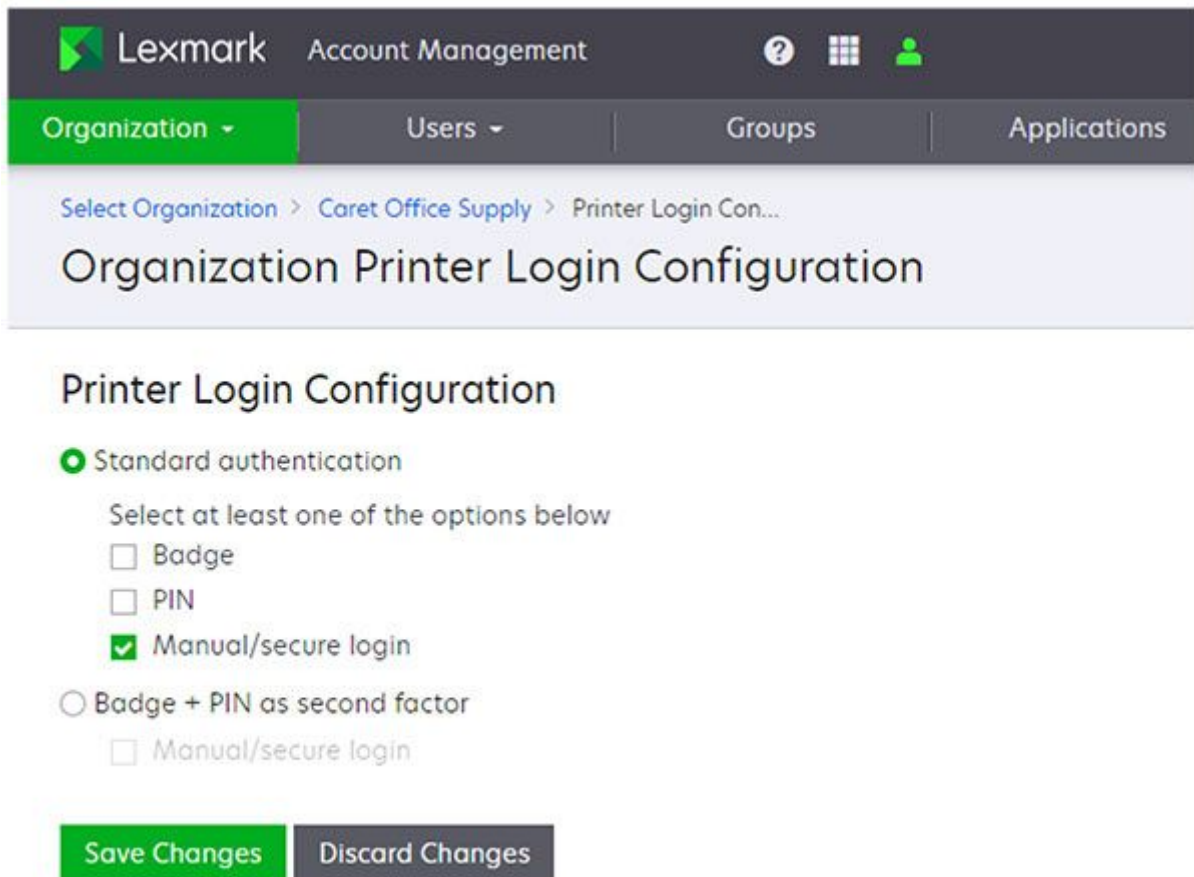
- The secure is valid for 15 minutes.
- Secure login code is available when identity federation is used.
- A secure login code can be obtained from the Lexmark Cloud Services Print Management web portal and from the Lexmark Print application on iOS or the Android devices.

## 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 279](#).



3. Click **Save Changes**.

## Obtaining a secure login code

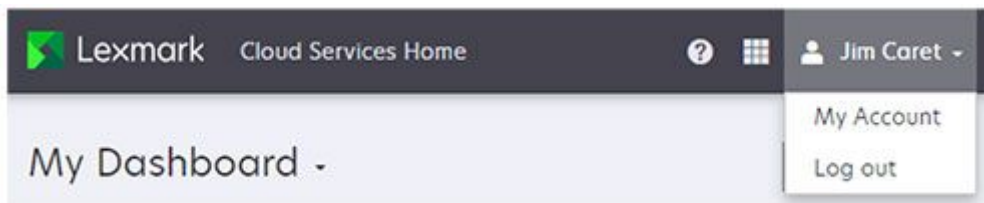
You can obtain a secure login code in the following ways:

- 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.

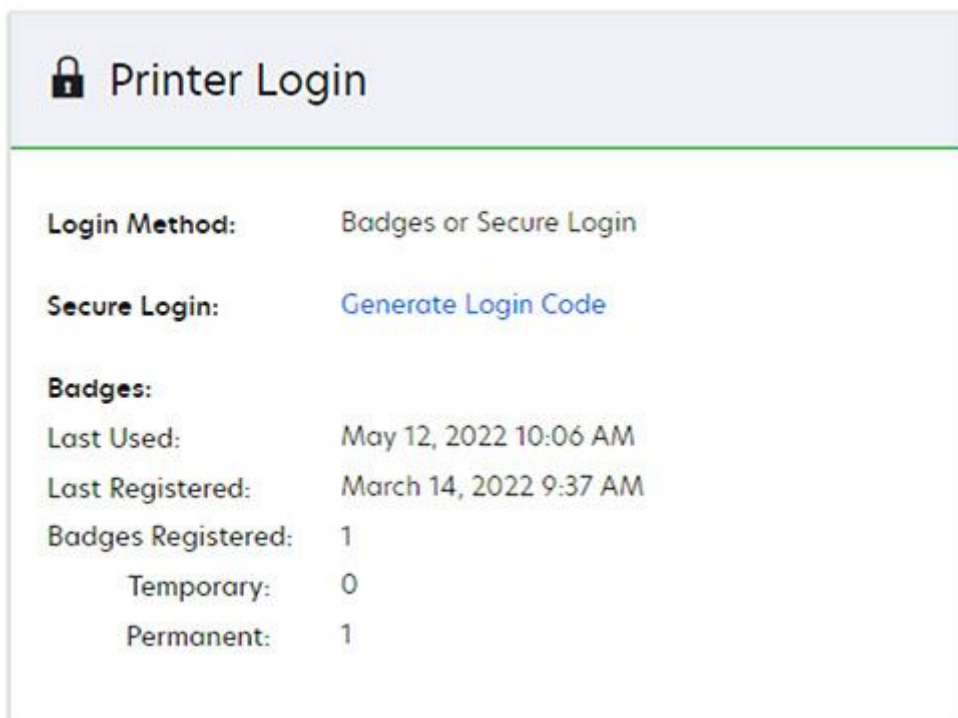
User's Data Center	Value for <env>
European	eu
North American	us

### 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

Please enter the login code below on the device to log in :

**992-471**

15:00 minutes remaining.

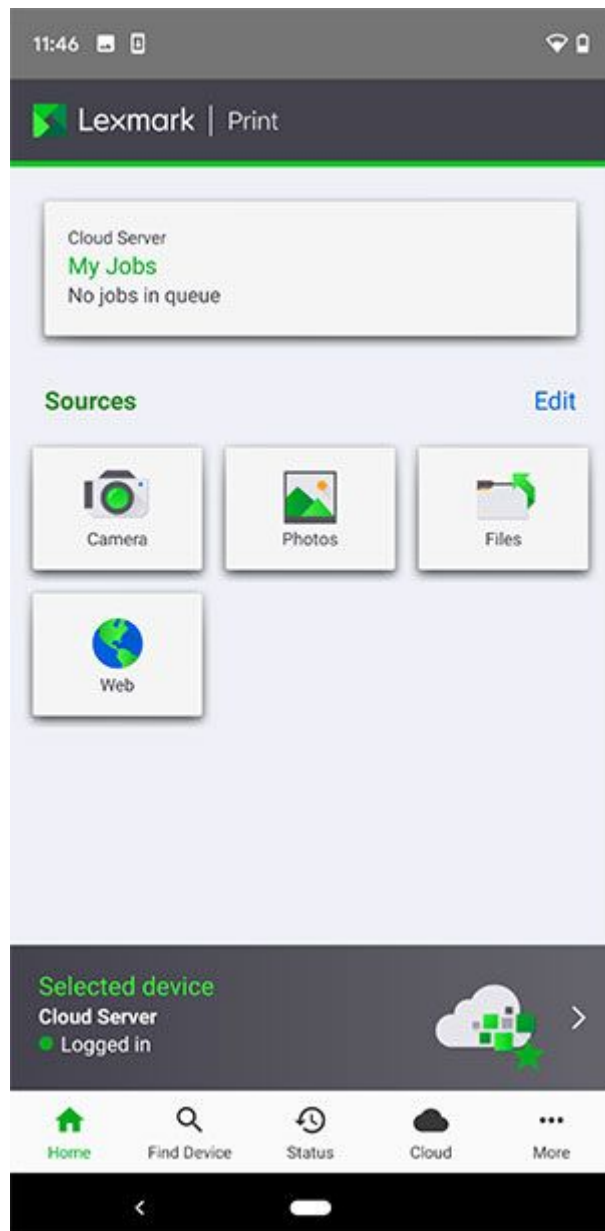
Refresh Code

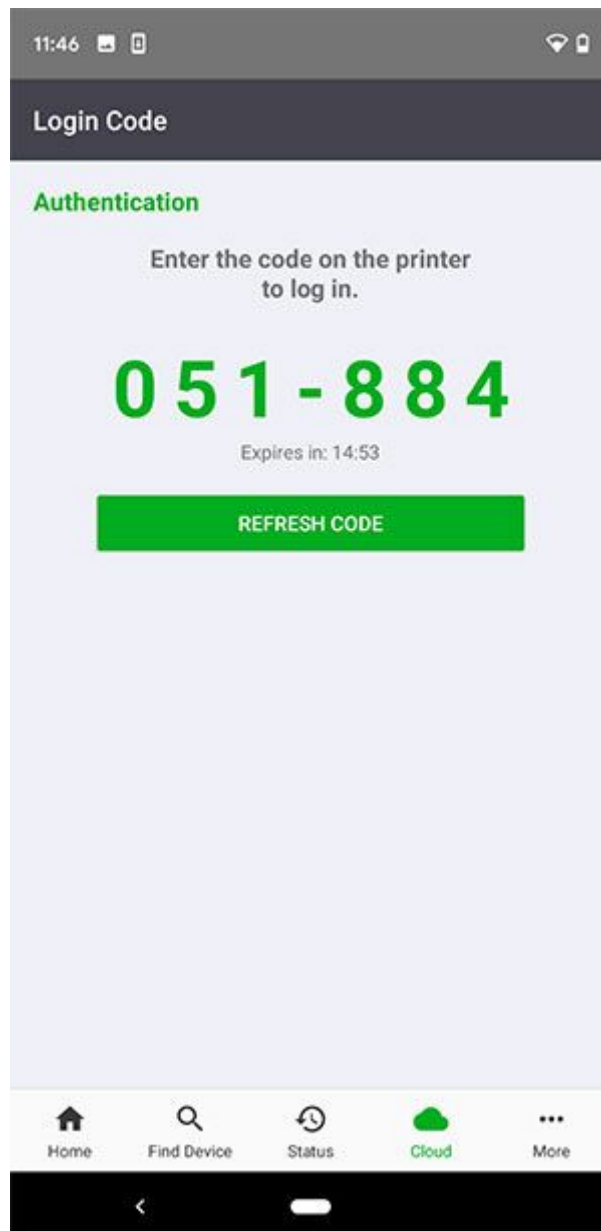
**Note:** A secure login code is only valid for 15 minutes. After 15 minutes, you can obtain a new code by clicking **Refresh Code**.

### 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

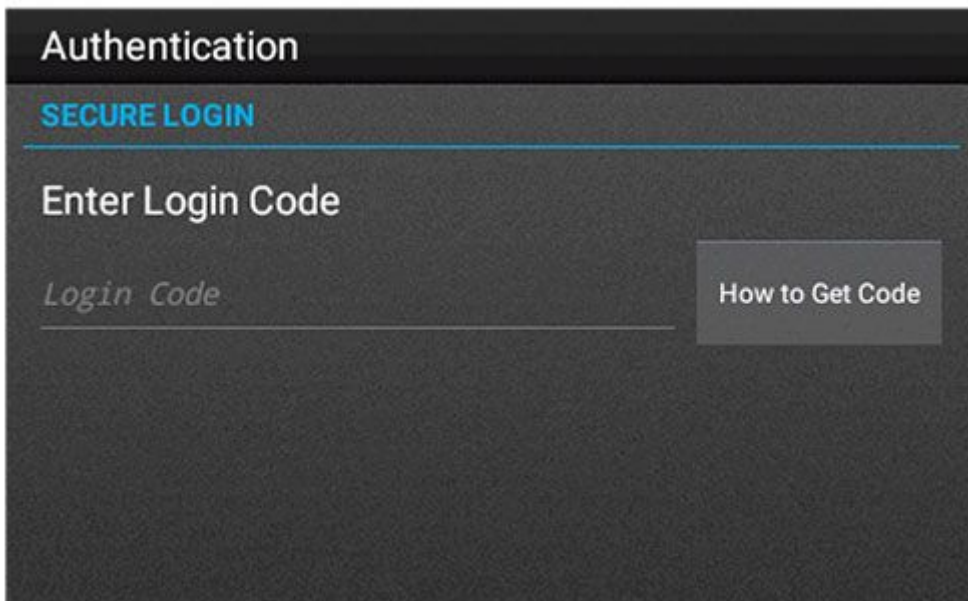
## Using a secure login code

When secure login is enabled for an organization, the Secure Login icon will appear on the control panel.

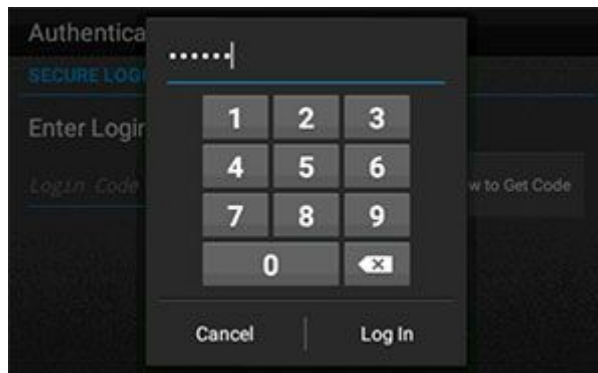
1. From the printer home screen, touch **Secure Login**.



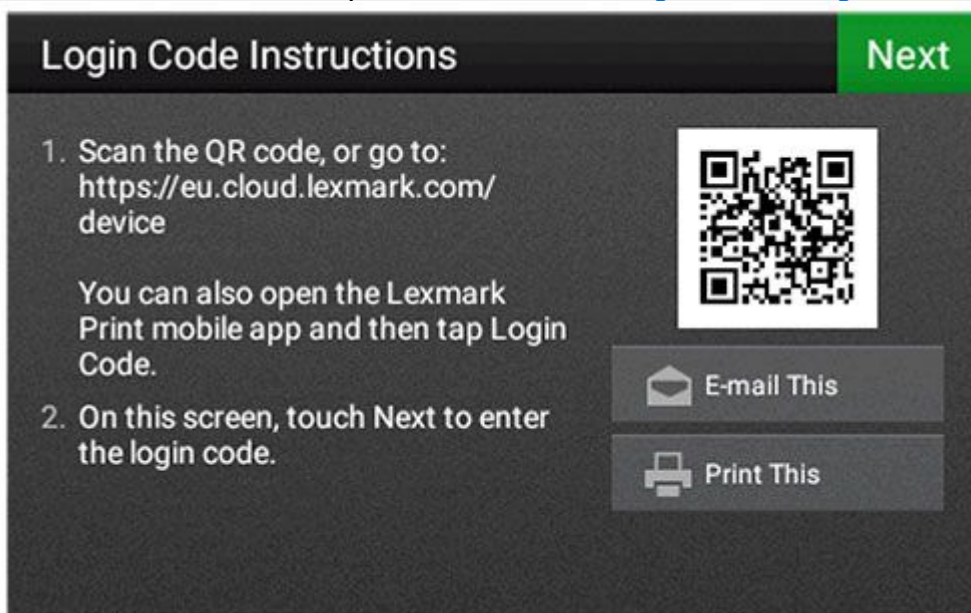
2. Touch the **Login Code** prompt.



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 211](#).



# 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

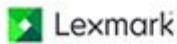
Generates an email when a printer fails to communicate or report its data to Lexmark Cloud Services after the interval threshold has been met or exceeded.

Printer Information policies are available for:

- Last data refreshed
- Last communicated

The following is an example of an email generated by a Notification Policy.

755904000075 [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: 755904000075

Printer model: CX922de

IP address: 10.184.81.250

Supply S/N: LEX00017003030013007049002255

Supply type: Cyan

Supply level: 44 %

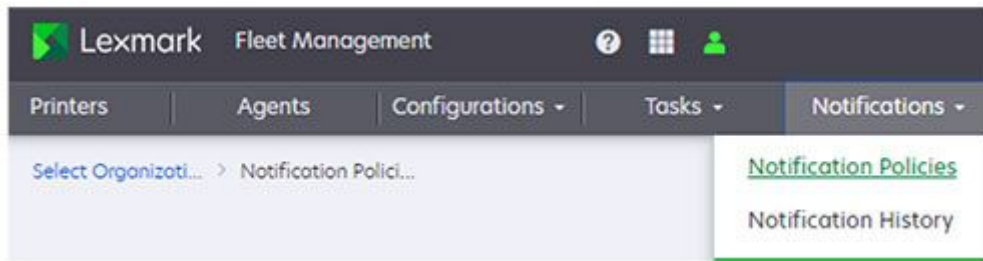
## Creating a Notification Policy

### 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:

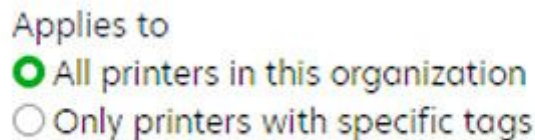
A screenshot of the 'Create Notification Policy' form. The form has a title bar 'Create Notification Policy'. It contains several fields: 'Policy name' (a text input field), 'Policy type' (a dropdown menu), 'Applies to' (two radio buttons: 'All printers in this organization' which is selected, and 'Only printers with specific tags'), 'Notify the following e-mail addresses when the conditions of this policy are met' (a text input field with a '+ Add' button), and 'Additional information to include in the e-mail notification (Optional)' (a large text area). At the bottom, there is a checkbox 'Include notification data in a .json file as an attachment' and a note: 'NOTE: There can be up to a 30 minutes delay before the policy takes effect.' Below the note are two buttons: 'Create Policy' (green) and 'Cancel' (dark grey).

- In the Policy name field, type the name of the policy.

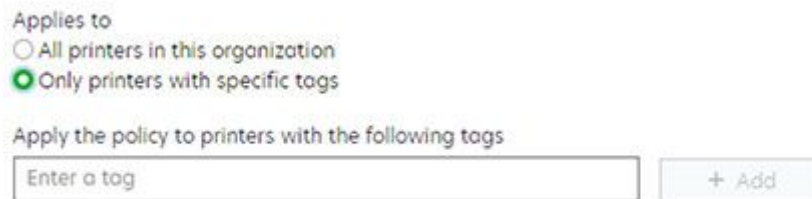
The following characters are not allowed in a Policy Name:

- < >
- &
- #
- ?
- `
- ~
- !
- %
- ^

- \*
  - |
  - +
  - =
  - ;
  - ;
  - "
  - { }
  - [ ]
  - \ /
- 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.



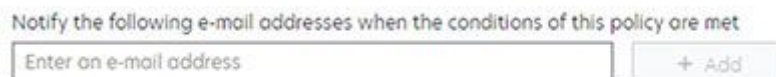
- **Only printers with specific tags**—Apply the policy to specific printers based on the tags entered. For more information on tags, see [Creating tags on page 327](#) and [Assigning tags to printers on page 327](#).



- 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**.



### 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.

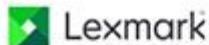
Additional information to include in the e-mail notification (Optional)

- 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.

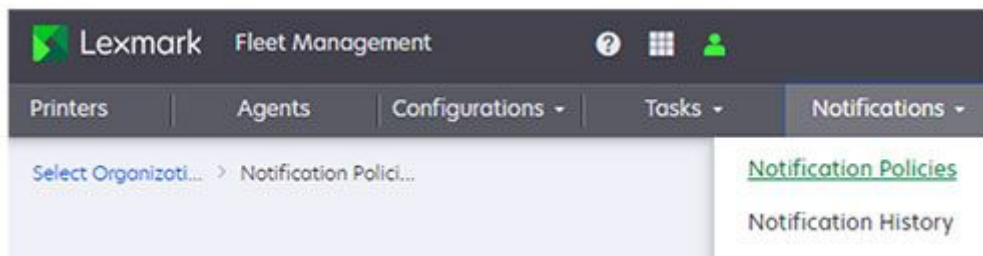
```
{
  "assetTag": "",
  "location": "",
  "contactName": "",
  "additionalInfo": "",
  "policyType": "Toner Level",
  "notificationThreshold": 55,
  "statusDescription": "",
  "assetSerialNumber": "7559040000075",
  "assetModel": "CX922de",
  "assetIpAddress": "10.184.81.250",
  "supplySerialNumber": "LEX00017003030013007049002255",
  "color": "Cyan",
  "supplyLevel": 44,
  "supplyName": "Cyan Cartridge",
  "organization": "Caret Office Supply"
}
```

## Creating a printer information policy

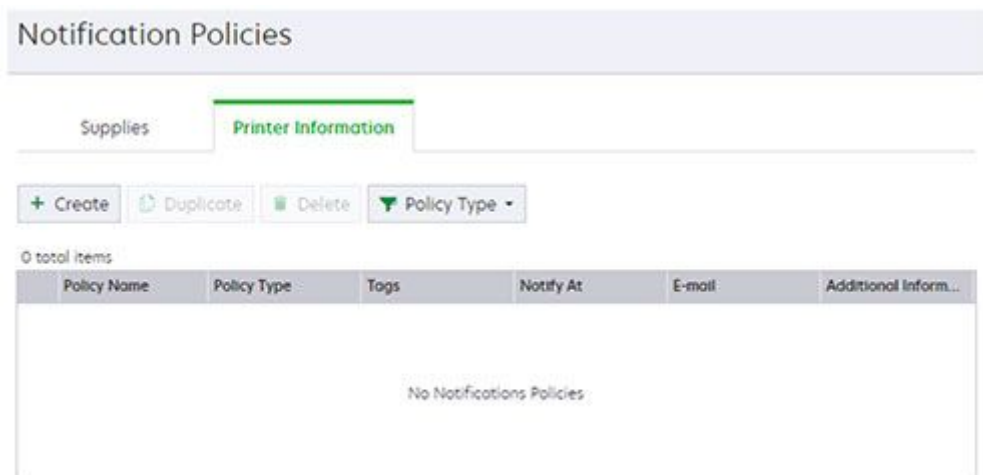
Printer information policies notify users by email when a printer fails to communicate with or report its data to Lexmark Cloud Services. Emails are sent after a specified time has elapsed.

**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:

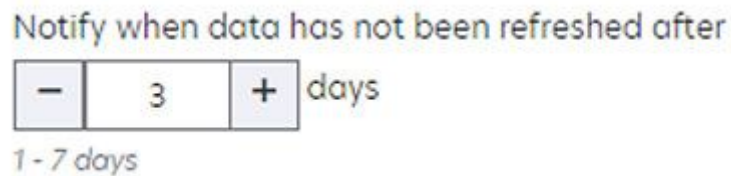
The screenshot shows the 'Create Notification Policy' form. It includes a 'Policy name' text input field, a 'Policy type' dropdown menu, and radio buttons for 'Applies to' with options 'All printers in this organization' (selected) and 'Only printers with specific tags'. Below this is a section for 'Notify the following e-mail addresses when the conditions of this policy are met', featuring a text input field with the placeholder 'Enter an e-mail address' and an '+ Add' button. There is also a large text area for 'Additional information to include in the e-mail notification (Optional)'. At the bottom, there is a checkbox for 'Include notification data in a .csv file as an attachment' and two buttons: 'Create Policy' and 'Cancel'.

- In the Policy name field, type the name of the policy.

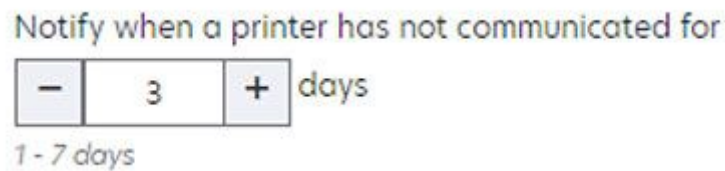
The following characters are not allowed in a Policy Name:

- < >
- &
- #
- ?
- `
- ~
- !
- %
- ^
- \*
- |
- +
- =
- ;
- :
- "
- { }
- [ ]
- \ /

- 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.

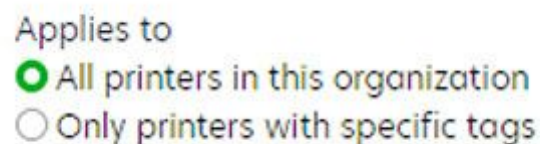


- **Last communicated**—Send an email notification based on the number of days since the printer last communicated with Lexmark Cloud Services.
  - Set the “Notify when a printer has not communicated for” value to the number of days that must elapse before an email notification is sent.

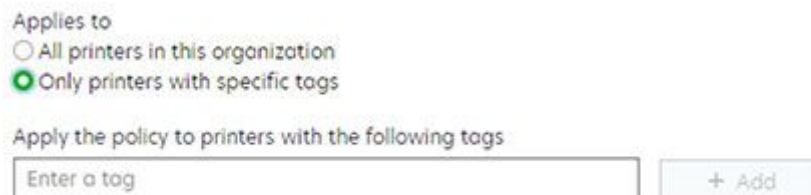


e-mail

- In the Applies To section, select either of the following:
  - **All printers in this organization**—Apply the policy to all printers in the organization.



- **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 327](#) and [Assigning tags to printers on page 327](#).



- 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

X NotificationDetails\_No Printe... v  
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			2022/01/04 14:06 UTC	2022/01/14 01:04 UTC
Lexmark MX722ade				
10.199.109.186				
74634799062M1			2022/09/23 08:51 UTC	2022/09/23 08:51 UTC
Lexmark MX710				
10.199.111.73				
74658250201HB			2022/11/21 08:44 UTC	2022/11/21 08:44 UTC
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

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:

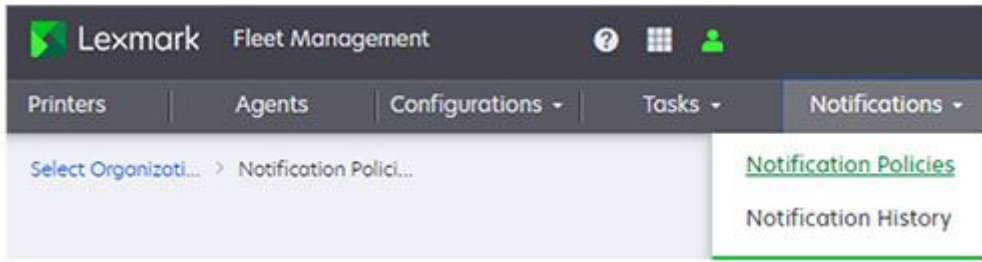
	A	B	C	D	E	F	G	H	I	J	K	L
1	IP_ADDRESS	SERIAL_NUMBER	MODEL	ASSET_TAG	LOCATION	LAST_COMMUNICATED	LAST_REFRESH	NOTIFICATION_TYPE	NOTIFICATION_THRESHOLD	ORGANIZATION	POLICY_NAME	
2	10.184.92.74	7529827140GDN	Lexmark CX625adhe			2022/06/27 22:05 UTC	2022/06/27 22:05 UTC	Last Data Refresh		3 Caret Office Suppl	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

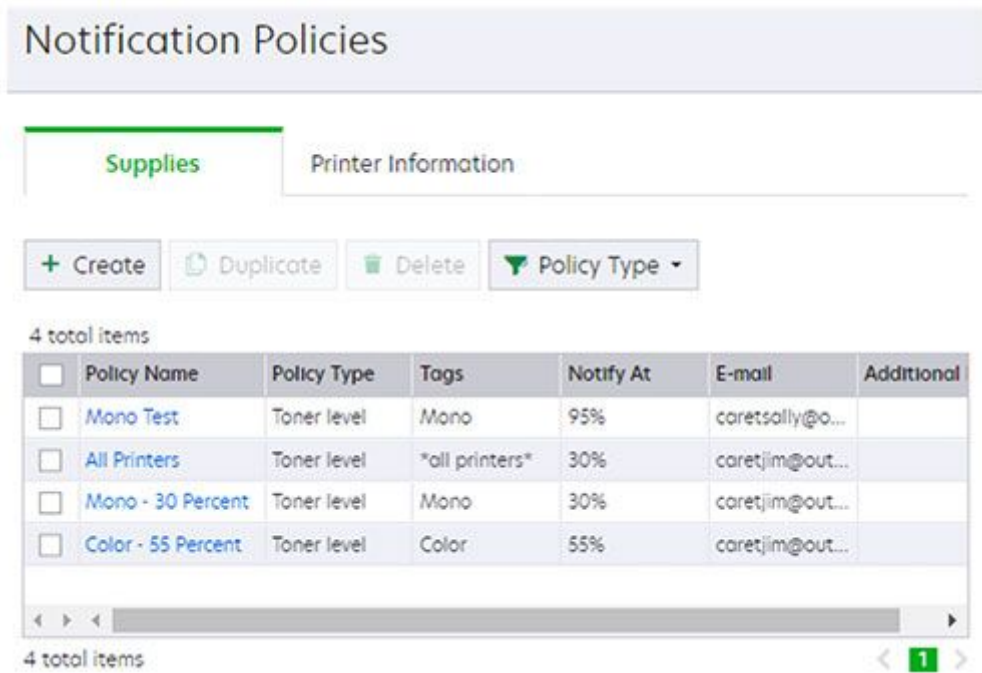
### Modifying a notification policy

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

Policy type

Notify when toner remaining is at  
 %  
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

Notify the following e-mail addresses when the conditions of this policy are met

Additional information to include in the e-mail notification (Optional)

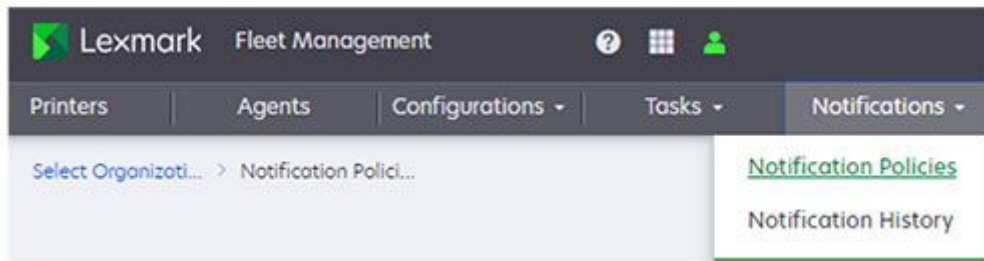
Include notification data in a .json file as an attachment

*NOTE: There can be up to a 30 minutes delay before the policy takes effect.*

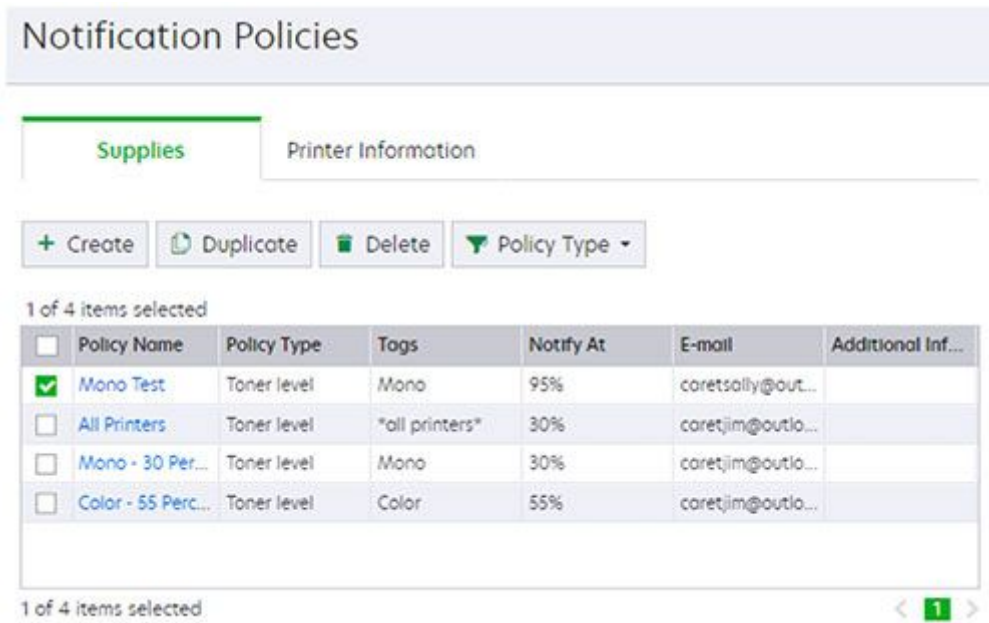
## Duplicating a notification policy

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

Notify the following e-mail addresses when the conditions of this policy are met  
caretsally@outlook.com x

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.*

**Notes**

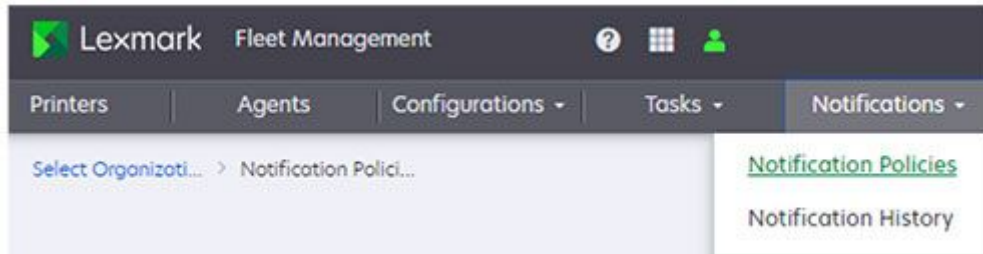
- When duplicating a policy, the Create Notification Policy page is prefilled with information from the policy that you are duplicating.
- Make sure that the new policy has a unique name.

5. Click **Create Policy**.

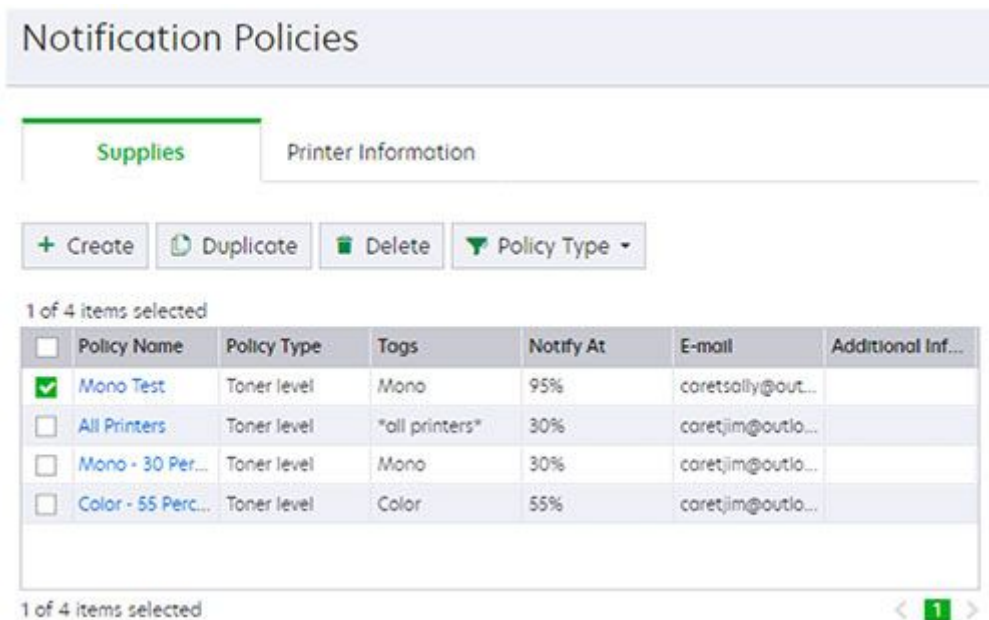
## Deleting a notification policy

You can delete notification policies that are no longer needed.

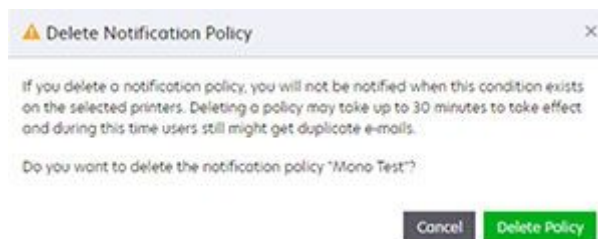
1. From the Fleet Management web portal, click **Notifications > Notification Policies**.



2. Select the **Supplies** or **Printer Information** tab.
3. Select one or more policies, and then click **Delete**.



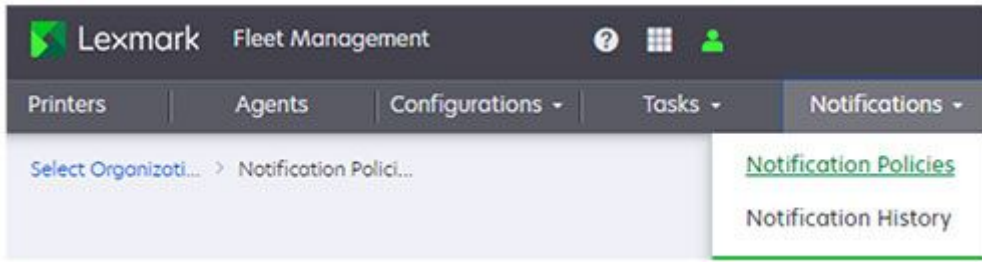
4. Click **Delete Policy**.



## Viewing notification history

The Notification History menu option shows the notifications that were generated in the last 30 days.

1. From the Fleet Management web portal, click **Notifications > Notification History**.



2. Select the **Supplies** or **Printer Information** tab.

You can view the following notifications generated in the last 30 days:

- Supplies notification

Notification History (Last 30 Days)

Supplies Printer Information

▼ Policy Type ▼ ▼ Model ▼ ▼ Color ▼ Search serial numbe... x Q...

12 total items

Date	Policy Ty...	Printer S...	Model	Asset Tag	Supply S...	E-mail	Color	Supply L...	Notify At
2/8/2023, 4:33:53 PM	Toner level	4064FST...	Lexmark ...		CAS1805...	caretsally...	Black	90%	95%
2/8/2023, 4:33:02 PM	Toner level	70152072...	Lexmark ...		CAD2011...	caretsally...	Black	66%	95%
2/8/2023, 4:32:38 PM	Toner level	NOKT2PU	Lexmark ...		CAN1007...	caretsally...	Cyan	90%	95%
2/8/2023, 4:32:38 PM	Toner level	NOKT2PU	Lexmark ...		CAN1014...	caretsally...	Black	20%	95%
2/8/2023, 4:32:38 PM	Toner level	NOKT2PU	Lexmark ...		CAN1007...	caretsally...	Magenta	90%	95%
2/8/2023, 4:32:38 PM	Toner level	NOKT2PU	Lexmark ...		CAN1007...	caretsally...	Yellow	90%	95%
1/20/2023, 5:33:27 PM	Toner level	4064FST...	Lexmark ...		CAS1805...	caretsally...	Black	90%	96%
1/18/2023, 11:52:14 AM	Toner level	NOKT2PU	Lexmark ...		CAN1007...	caretsally...	Cyan	90%	96%
1/18/2023, 11:52:14 AM	Toner level	NOKT2PU	Lexmark ...		CAN1014...	caretsally...	Black	20%	96%
1/18/2023, 11:52:14 AM	Toner level	NOKT2PU	Lexmark ...		CAN1007...	caretsally...	Magenta	90%	96%
1/18/2023, 11:52:14 AM	Toner level	NOKT2PU	Lexmark ...		CAN1007...	caretsally...	Yellow	90%	96%
1/18/2023, 1:25:02 AM	Toner level	70152072...	Lexmark ...		CAD2011...	caretsally...	Black	66%	96%

12 total items < 1 >

- Printer Information notification



Select Organization: Caret Office Supply > Notification History

Notification History (Last 30 Days)

Supplies

Printer Information

▼ Policy Type ▼ Model ▼

Search serial numbe... x Q...

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...		caretjm@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		caretjm@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...		caretjm@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...		caretjm@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...		caretjm@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...		caretjm@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		caretjm@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...		caretjm@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...		caretjm@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		caretjm@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...		caretjm@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...		caretjm@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...		caretjm@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...		caretjm@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		caretjm@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...		caretjm@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...		caretjm@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...		caretjm@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		caretjm@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...		caretjm@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...		caretjm@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...		caretjm@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		caretjm@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...		caretjm@outloo...	3 days	1/4/2022, 9:06...	1/13/2022, 8:04...

24 total items

< 1 >

# 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 236](#).

### 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 31](#).

- 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

- **Fleet Management Viewer**

- Basic view role for Cloud Fleet Management.
- View printers list and printer details page without any rights to perform actions.
- View installed applications without any rights to perform actions.
- Can only access Standard view and Quick views.

**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 236](#).

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 239](#).

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 242](#).

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 243](#).

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

## Account Management

---

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

1. 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 242](#).

2. Click **Create Group**.

### Delete groups

1. Select one or more groups, and then click **Delete**.

**Note:** You can also search for groups using the search bar.

2. Click **Delete Groups**.

### Add members to a group

1. Click a group name.
2. From the Members tab, click **Add Members** or **Add**, and then select one or more users.

**Note:** You can also search for groups using the search bar.

3. Click **Add Members**.

### Remove group members

1. Click a group name.
2. From the Members tab, select one or more users, and then click **Remove**.
3. Click **Remove Members**.

### Assign group roles

**Note:** All users in the group inherit all the roles assigned to the group.

1. Click a group name.
2. From the Group Roles tab, click **Assign Roles** or **Assign**.
3. Select one or more roles.

**Note:** For more information, see [Understanding roles on page 236](#).

4. Click **Assign Roles**.

### Remove group roles

1. Click a group name.
2. From the Group Roles tab, select one or more roles, and then click **Remove**.
3. Click **Remove Roles**.

### Assigning organization roles

Organization roles are specific roles assigned to an organization. For more information, see [Understanding roles on page 236](#). 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**—This group consists of roles with organizational administrator rights.
- **Fleet Management Admins**—This group consists of members with role for Fleet Management Administrator, File Service Administrator, and Fleet Management Reporting Analyst.
- **Fleet Management Viewers**—This group consists of members with role for Fleet Management Viewer and File Service Administrator.
- **Help Desk**—This group consist of members who can view users, badges, groups, applications, PINs, and organization information.
- **Reporting**—This group consists of members with role of reporting analysts.

1. From the Account Management web portal, click **Groups**.
2. Do anyof the following:

## Create a group

1. Click **Create**, and then type a unique group name.
2. 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.

1. Select one or more groups, and then click **Delete**.

**Note:** You can also search for groups using the search bar.

2. Click **Delete Group** or **Delete Groups**.

## Add members to a group

1. Click a group name.
2. 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.

3. Click **Add Members**.

### Remove group members

1. Click a group name.
2. From the Members tab, select one or more users, and then click **Remove**.
3. Click **Remove Members**.

### Assign group roles

All users in the group inherit all the roles assigned to the group.

1. Click a group name.
2. From the Group Roles tab, click **Assign Roles** or **Assign**.
3. Select one or more roles.
4. Click **Assign Roles**.

### Remove group roles

1. Click the group name.
2. From the Group Roles tab, select one or more roles, and then click **Remove**.
3. Click **Remove Roles**.

## Managing users

### Create a user

1. From the Account Management web portal, click **Users**.
2. Click **Create**.
3. Type the email address, first name, last name, and display name of the user.
4. Type the department and cost center name where the user belongs.
5. Set the password manually, or email a link to the user to change the password.
6. Click **Create User**.

### Edit a user

1. From the Account Management web portal, click **Users**.
2. Click a user email address.
3. 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

1. 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.

2. 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.

**Note:** The import log is sent to your email address.

1. Click **Import Users** or **Import**, and then browse to the CSV or TXT file.
2. If necessary, email a link to the user to change the password.
3. Click **Import Users**.

## Sample CSV format

```
EMAIL,OPERATION,PASSWORD,FIRST_NAME,LAST_NAME,DISPLAY_NAME,SHORTNAME,GRO
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,GRO
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, `jd@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 236](#).

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 236](#).

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:

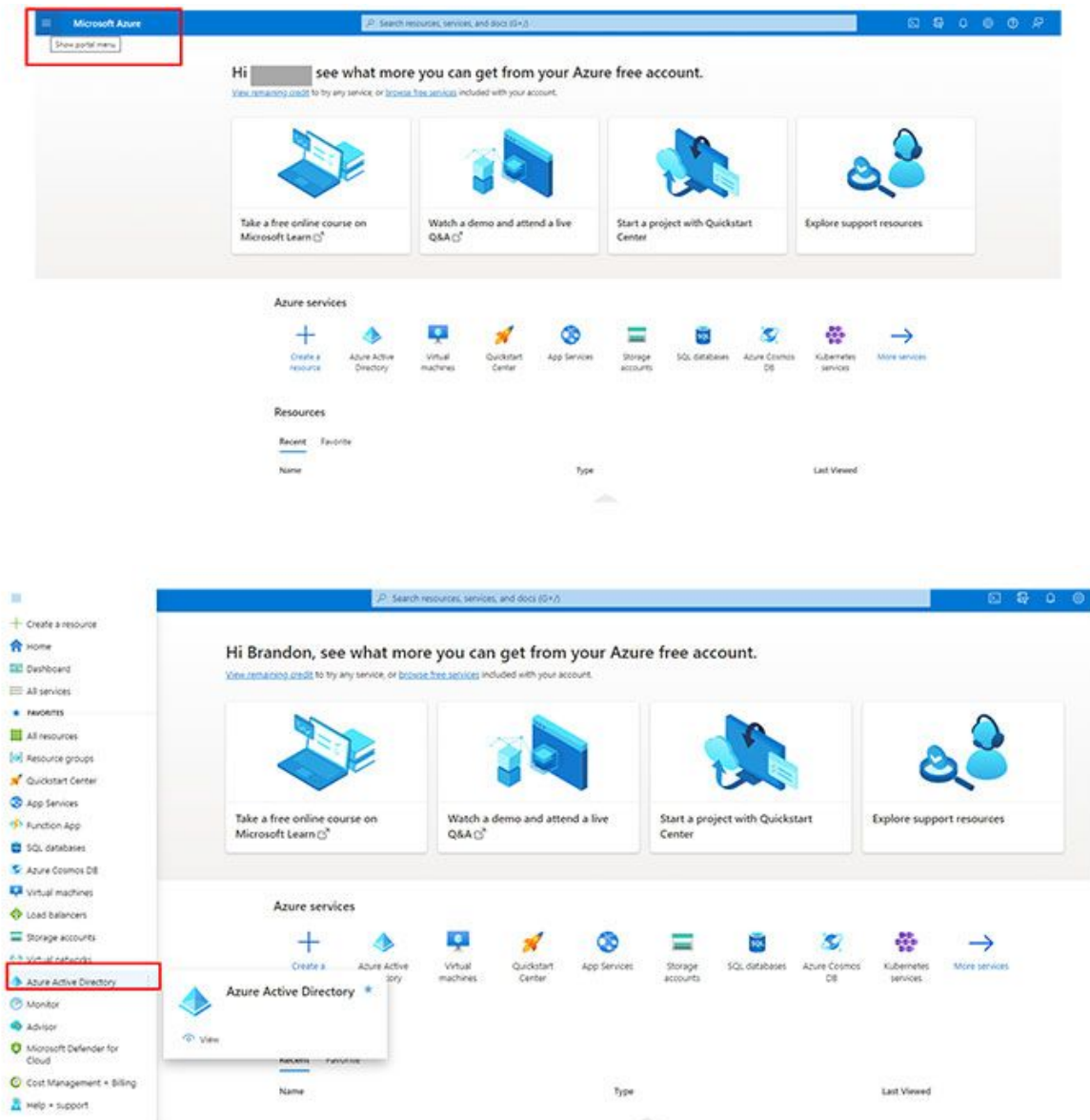
- Microsoft Azure Active Directory
- Lexmark Cloud Services

## Understanding federation

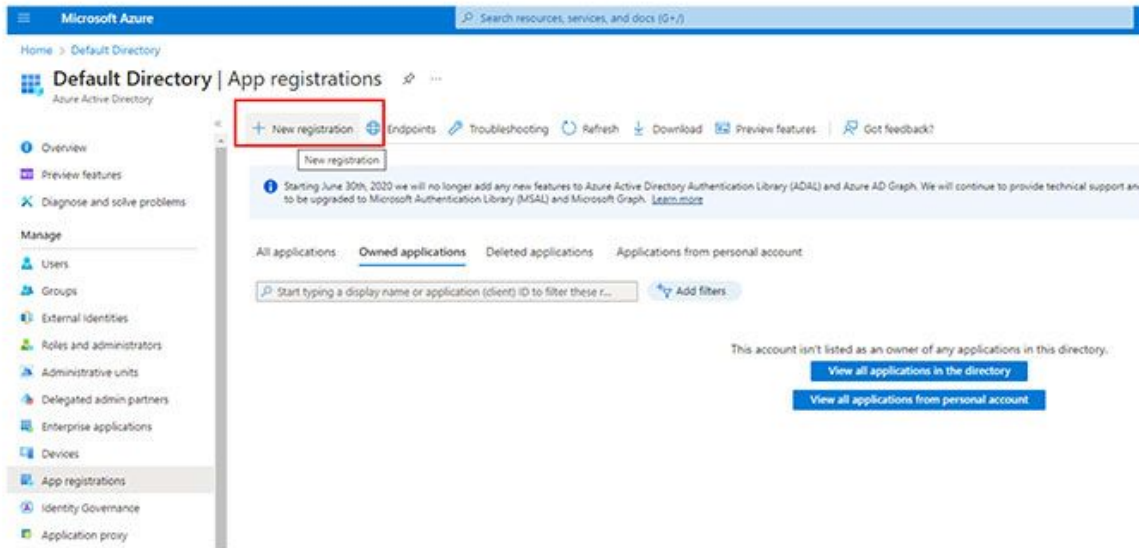
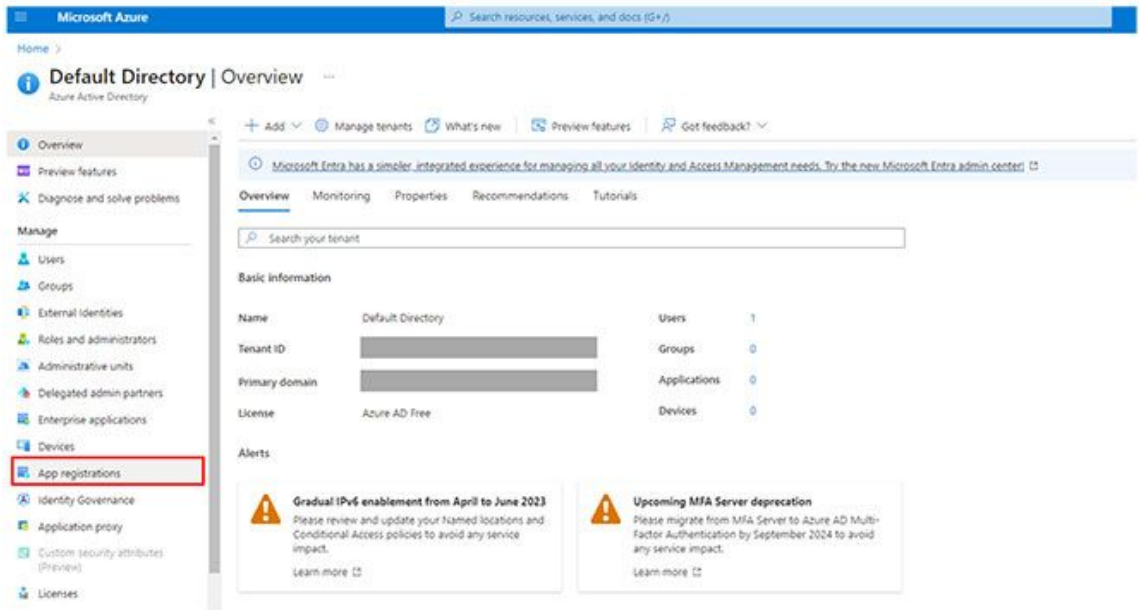
After implementing OIDC for federation, when accessing the Lexmark Cloud Services portal for the first time, users are prompted to enter their email address. They are then redirected to their identity provider (IDP) to complete the login procedure.

## 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**.



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 ▼ https://oidctest1.com/auth ✓

Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).

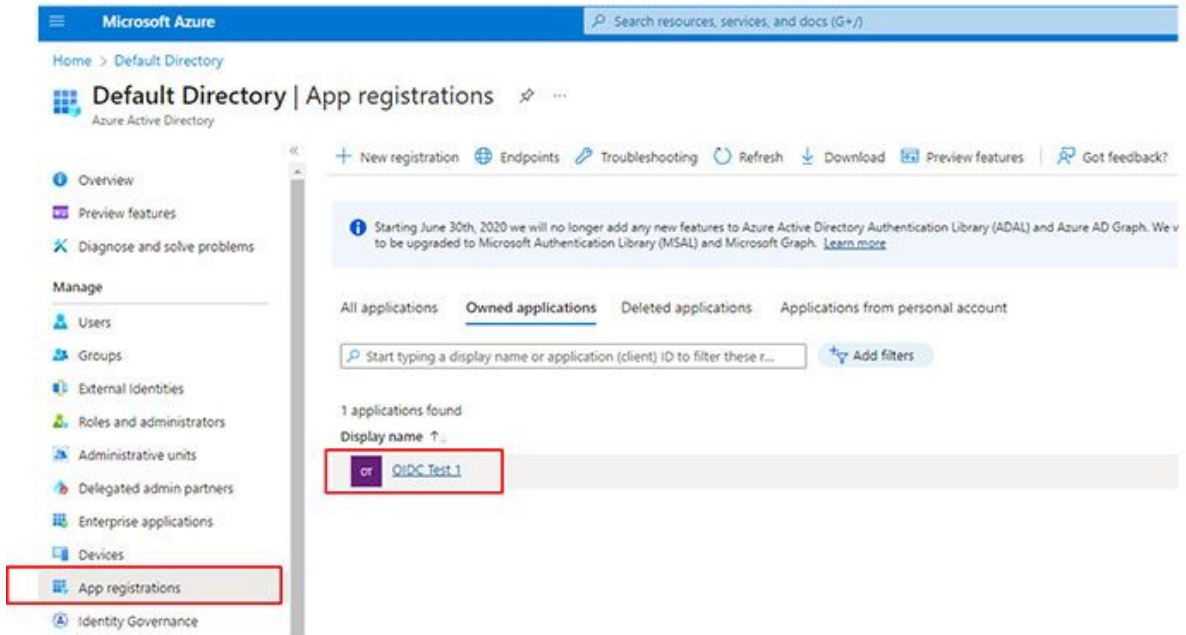
By proceeding, you agree to the [Microsoft Platform Policies](#)

**Register**

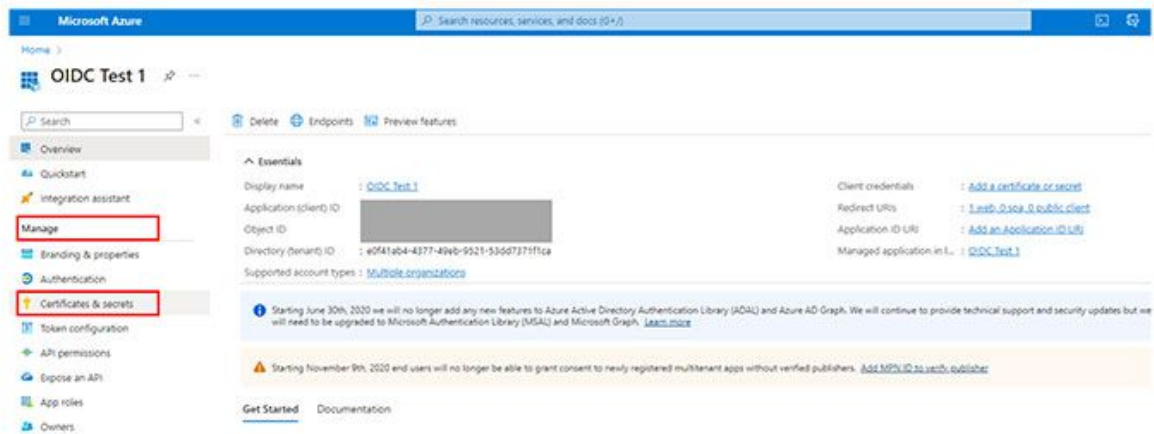
## Creating a client secret

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).

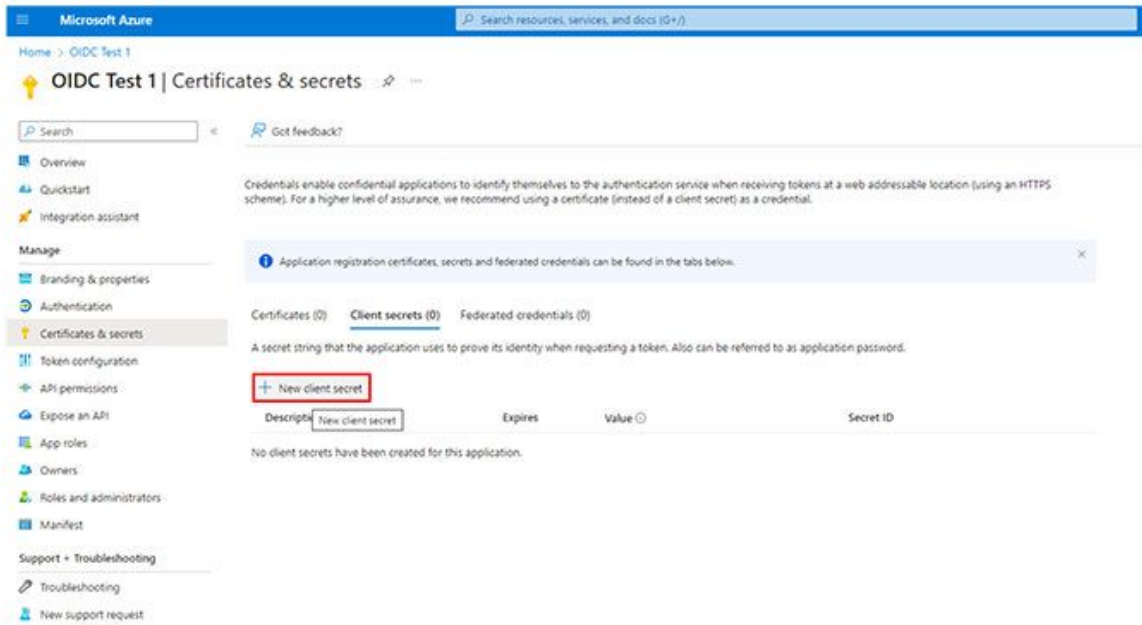


3. In the Manage section, select **Certificates and secrets**.

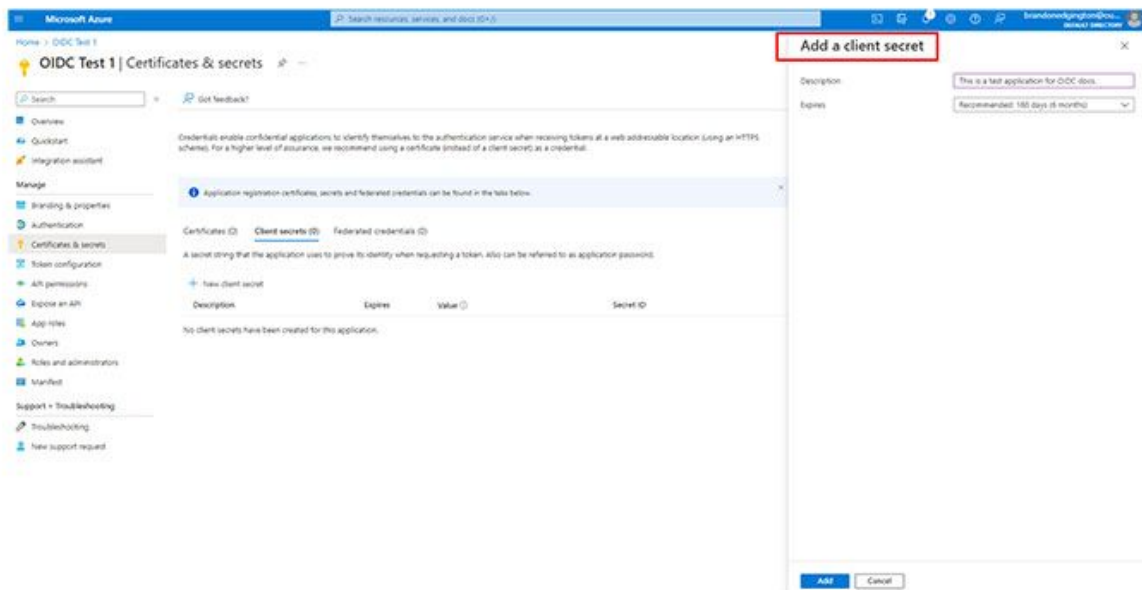


4. Click **New client secret**.



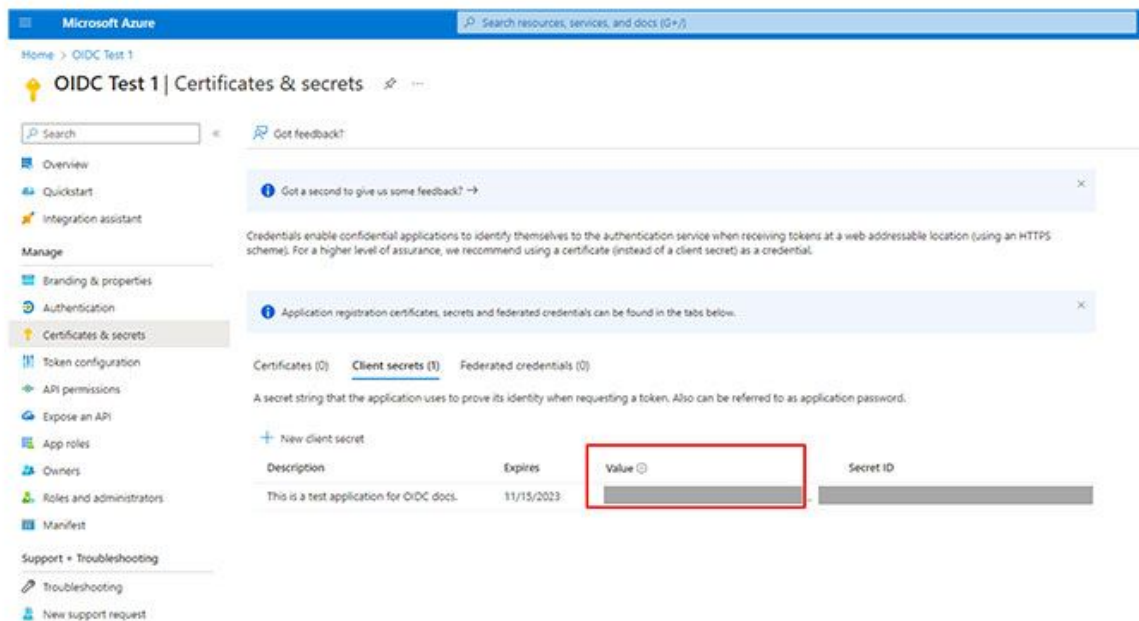


5. Provide a description.
6. Set an expiry date.
7. Click **Add**.



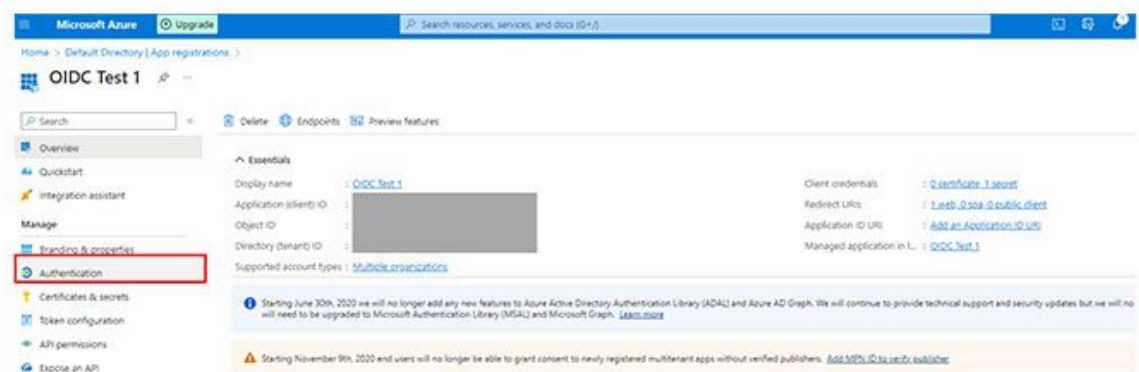
8. Save the client secret for later use in this guide.





## Enabling implicit grant and hybrid flows

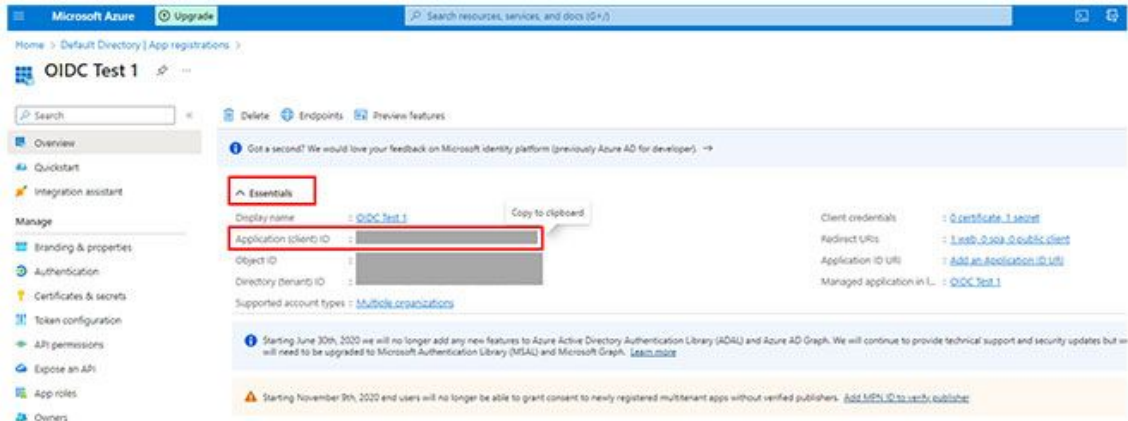
1. From the Manage section, select **App registrations**.
2. Select the application that you created (for example, OIDC Test 1).
3. In the **Manage** section, select **Authentication**.



4. In the Implicit grant and hybrid flows section, select **ID tokens**.
5. Click **Save**.

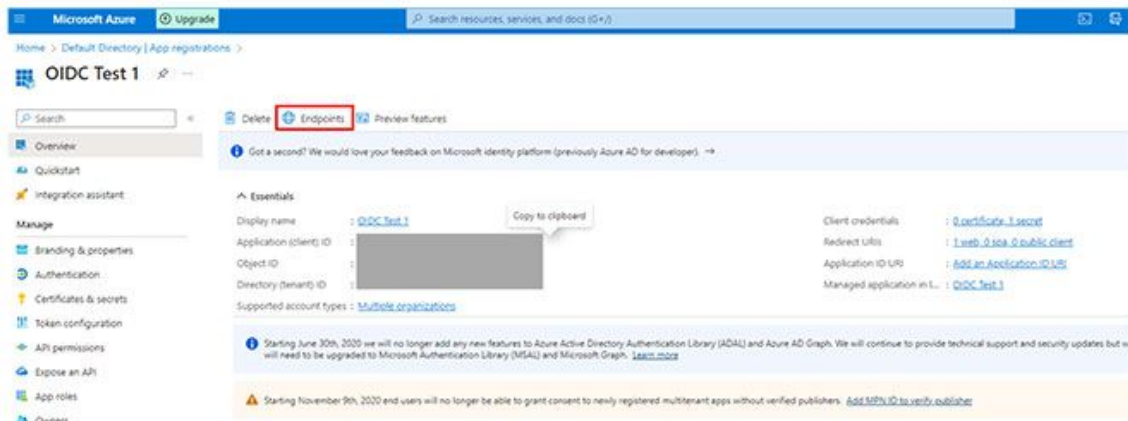
## Retrieving the application (client) ID

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.

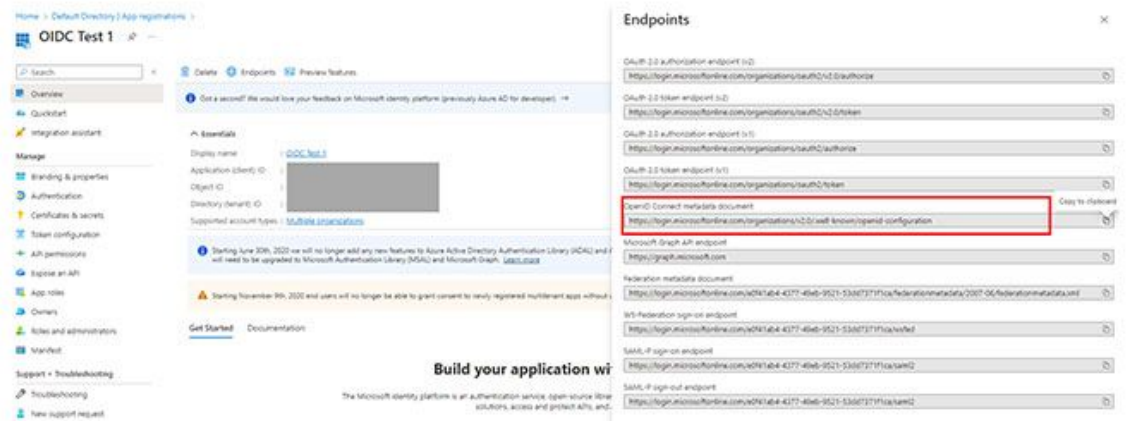


## Retrieving the OpenID Connect metadata document

1. From the current screen, select **Endpoints**.

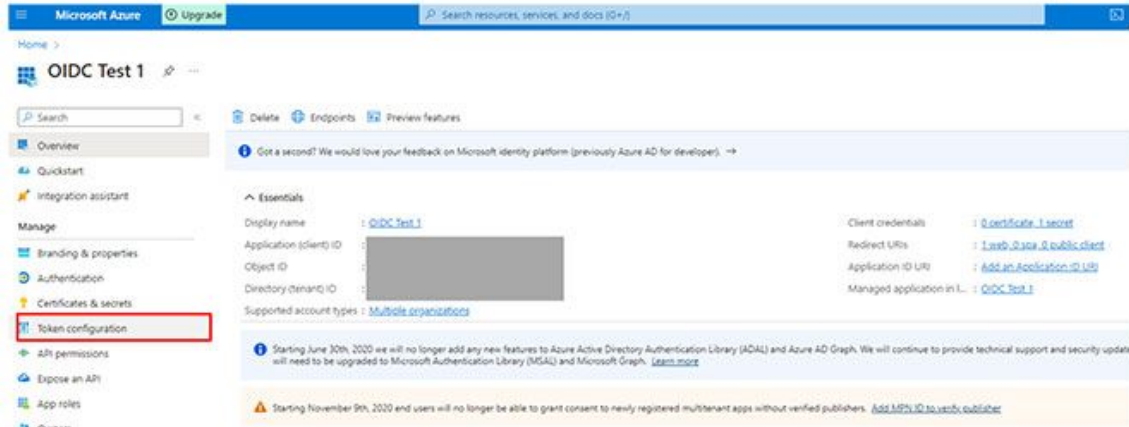


2. In the Endpoints section, locate **OpenID Connect metadata document**.
3. Save the URL for later use in this guide.

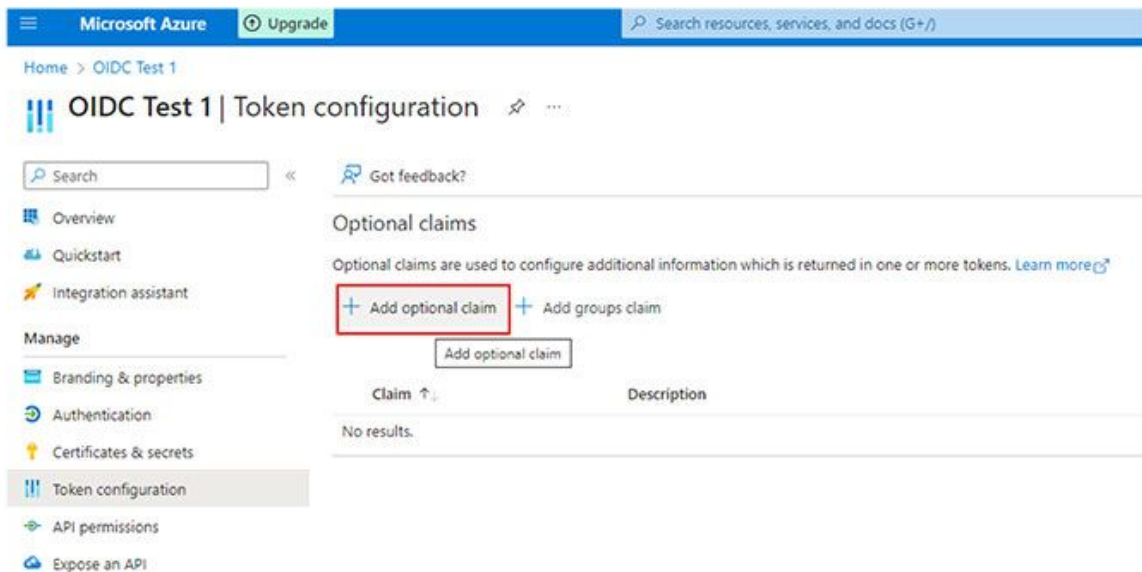


## Configuring claims

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**.



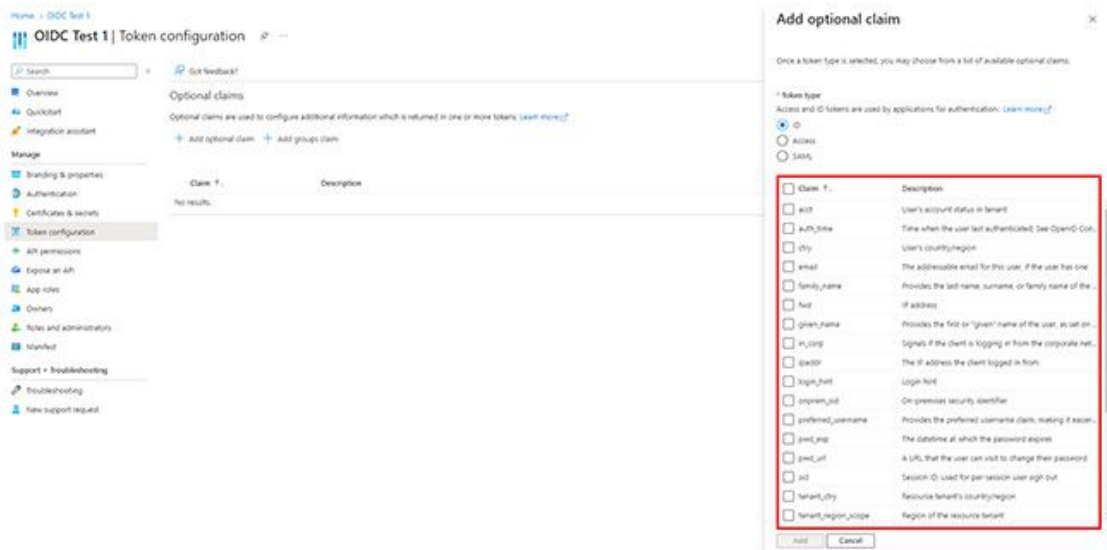
5. Click **Add optional claim**.



6. Under Token type, select **ID**.



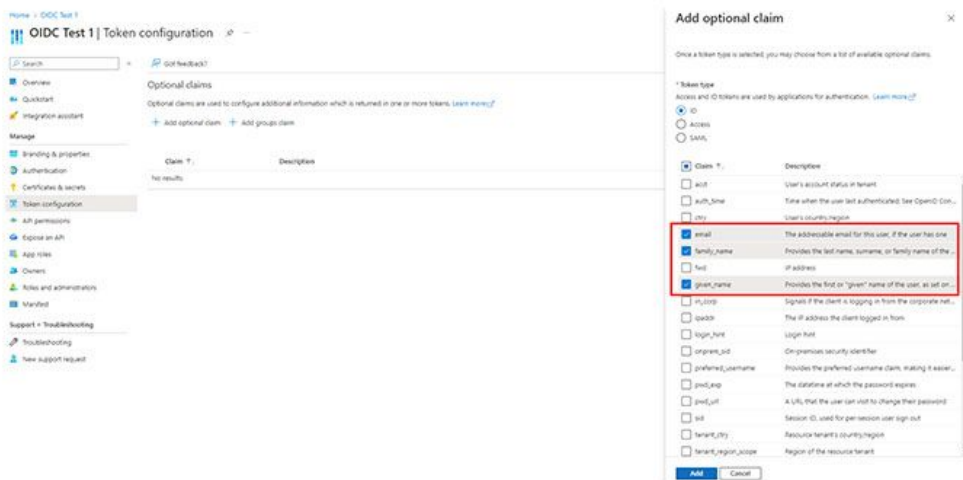
7. From the list that appears, select the claims that you want to add.



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**.



- 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 image shows two screenshots from the Azure AD portal. The top screenshot shows the 'Add optional claim' dialog box. A red box highlights the checkbox for 'Turn on the Microsoft Graph email, profile permission (required for claims to appear in token)'. Below the dialog, a table lists the available claims:

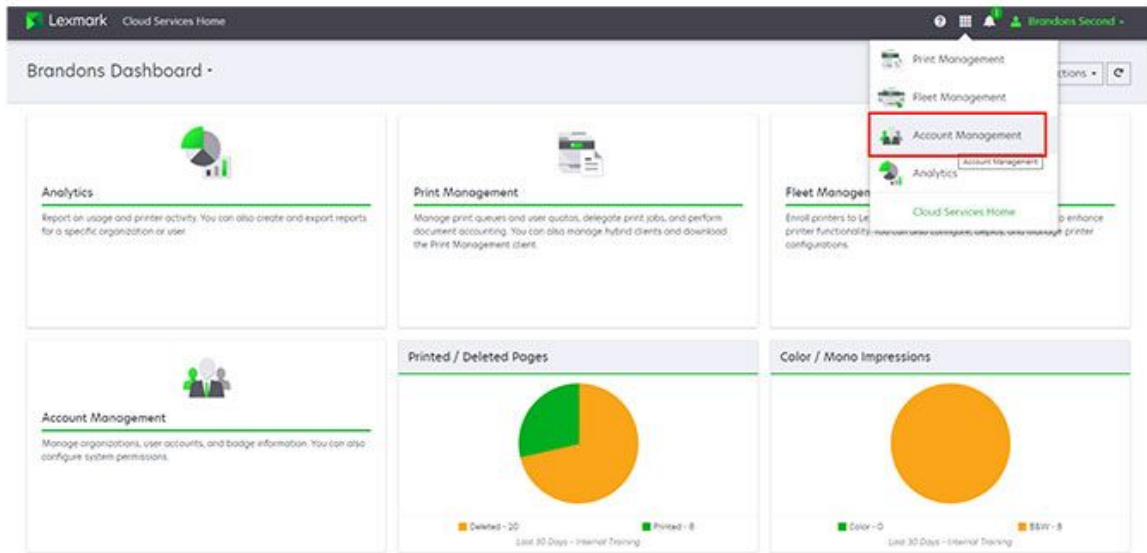
Claim type	Description
<input type="checkbox"/> aad	User's account status in tenant
<input type="checkbox"/> auth_time	Time when the user last authenticated (see OpenID Connect)
<input type="checkbox"/> city	User's country/region
<input checked="" type="checkbox"/> email	The addressable email for this user, if the user has one
<input checked="" type="checkbox"/> family_name	Provides the last name, surname, or family name of the user
<input type="checkbox"/> first_name	First name
<input checked="" type="checkbox"/> given_name	Provides the first or "given" name of the user, as set on the user object
<input type="checkbox"/> is_otp	Signals if the client is logging in from the corporate net.

The bottom screenshot shows the 'Token configuration' page. A red box highlights the table of configured optional claims:

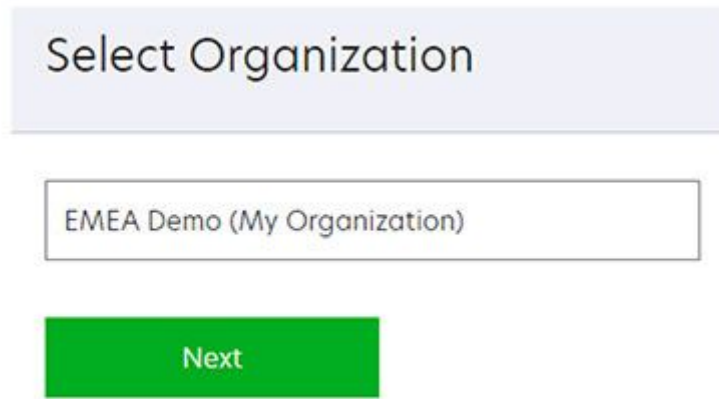
Claim type	Description	Token type	Optional settings
email	The addressable email for this user, if the user has one	<input type="radio"/>	-
family_name	Provides the last name, surname, or family name of the user as defined in the user object	<input type="radio"/>	-
given_name	Provides the first or "given" name of the user, as set on the user object	<input type="radio"/>	-

## Configuring Lexmark Cloud Services

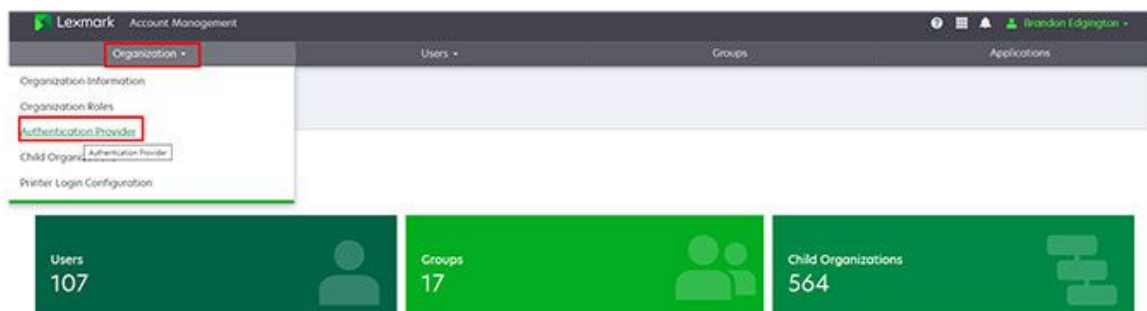
- Log in to Lexmark Cloud Services.
- From the navigation menu on the right side of the screen, select **Account Management**.



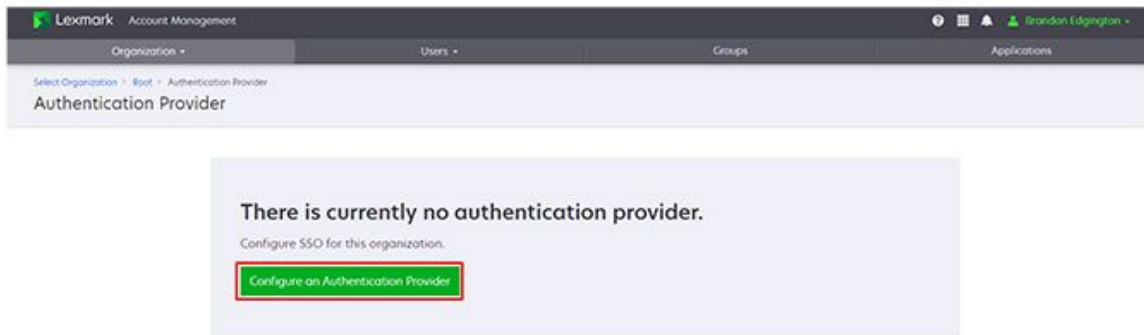
3. If necessary, select your organization, and then click **Next**.



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

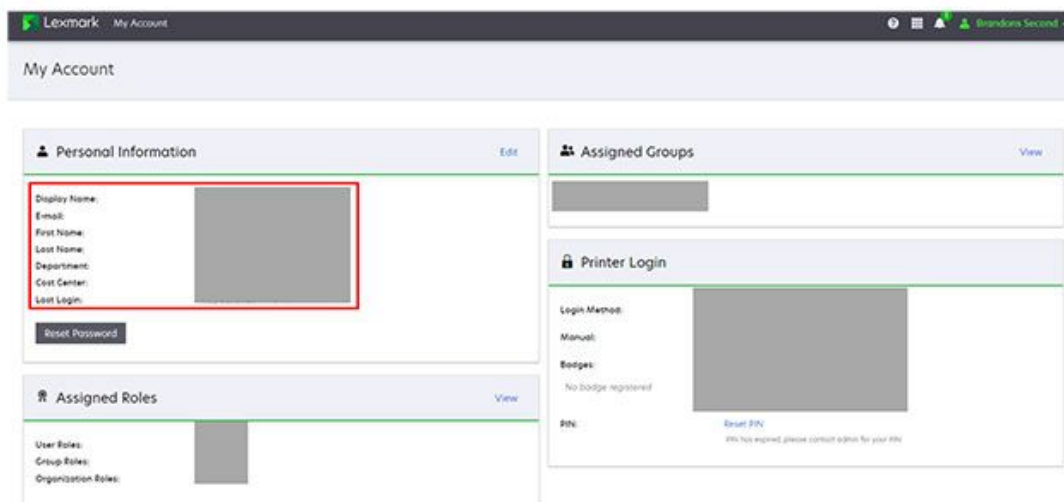
**Note:** Do not log out or close the current browser until the federation is successfully set up.

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.





## 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.

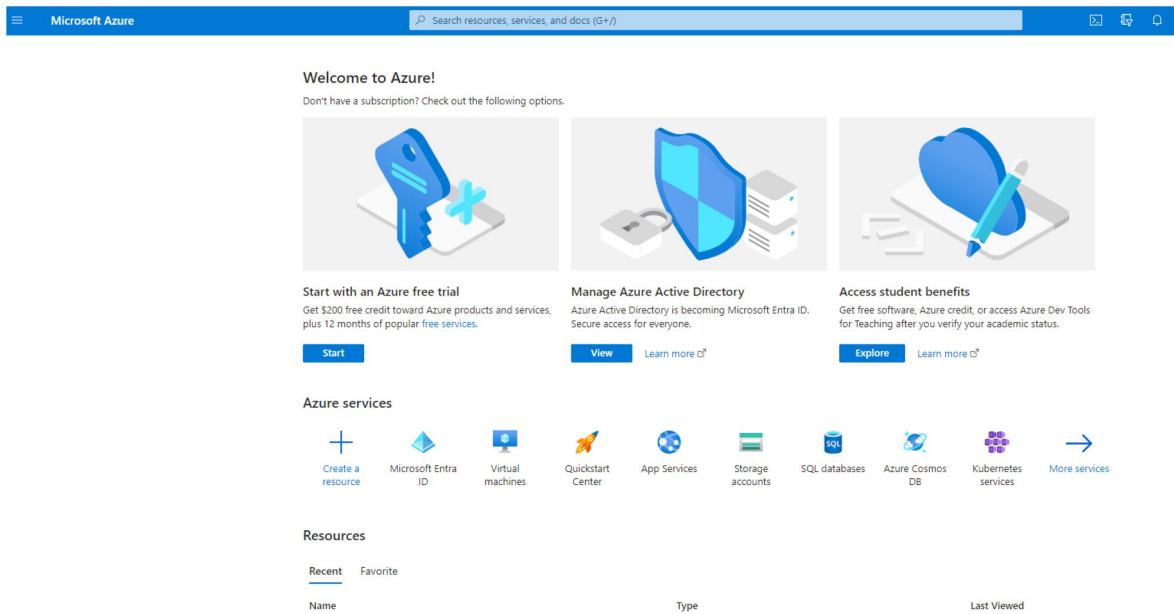
### Configuring Microsoft Entra ID

The screenshots may vary depending on the latest release

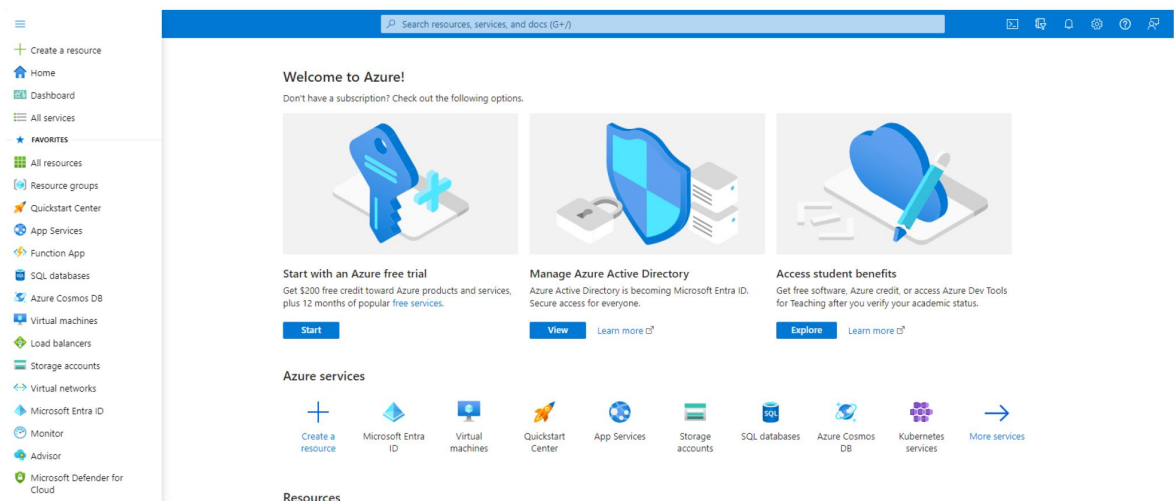
#### Creating an enterprise application

# Account Management

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**.

# Account Management

Home > **Default Directory | Overview** ...  
Microsoft Entra ID

+ 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](#)

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

Home > Default Directory | Enterprise applications > Enterprise applications

**Enterprise applications | All applications** ...  
Default Directory - Microsoft Entra ID

+ 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 <b>OIDC Test 1</b>	584b0db5-b420-43b9-833a-3...	70ca3eea-d30d-4bda-8d2f-22...		5/19/2023

Overview  
Diagnose and solve problems

**Manage**

- All applications
- Application proxy
- User settings
- App launchers
- Custom authentication extensions (Preview)

**Security**

- Conditional Access
- Consent and permissions

5. Click **Create your own application**.

Home > Default Directory | Enterprise applications > Enterprise applications | All applications >

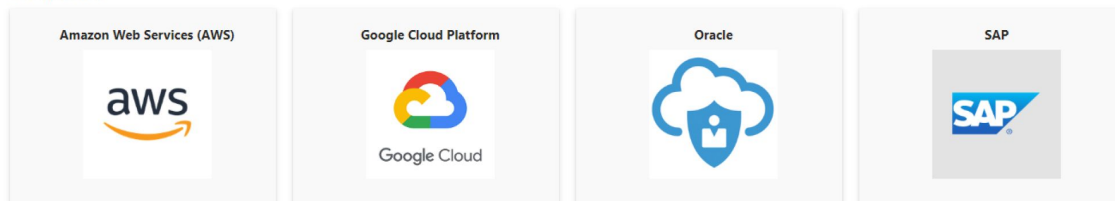
## Browse Microsoft Entra ID Gallery

+ Create your own application | Got feedback?

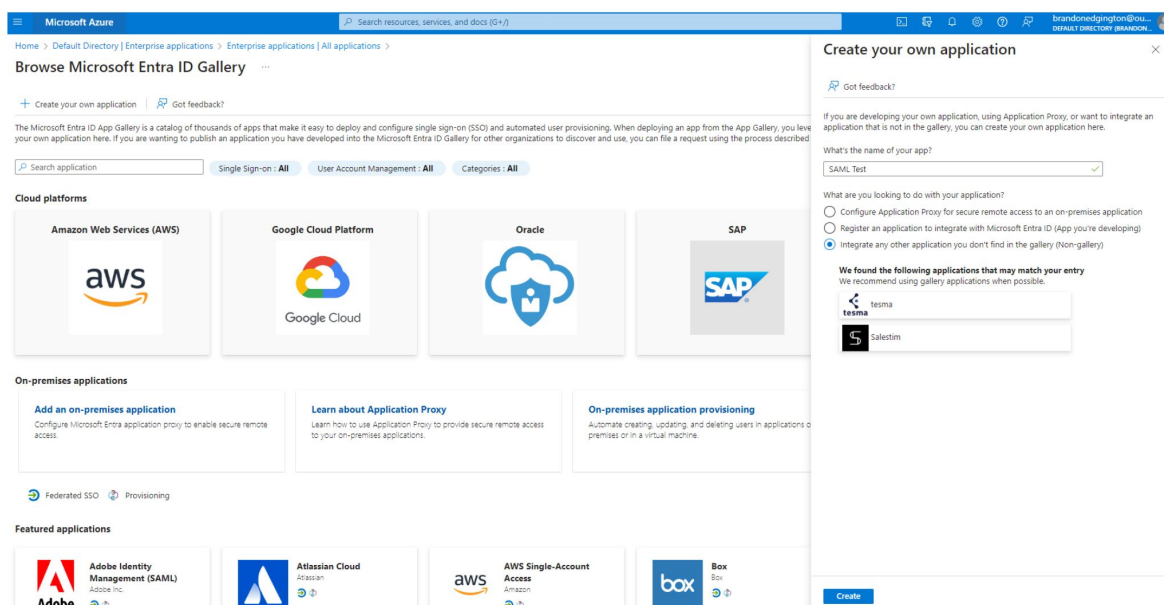
The Microsoft Entra ID App Gallery is a catalog of thousands of apps that make it easy to deploy and configure single sign-on (SSO) and automated user provisioning. When deploying an app from the App Gallery, you leverage prebuilt your own application here. If you are wanting to publish an application 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](#).

Search application 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**.



## 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.

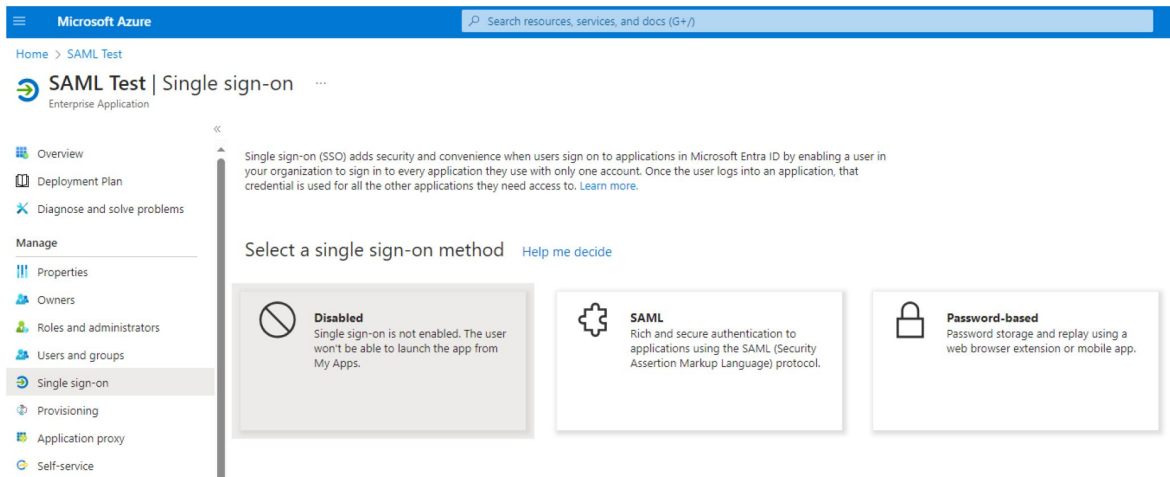
The screenshot shows the Microsoft Azure portal interface for Enterprise applications. The top navigation bar includes the Microsoft Azure logo and a search bar. The breadcrumb trail is: Home > Default Directory | Enterprise applications > Enterprise applications. The main heading is "Enterprise applications | All applications" with a sub-heading "Default Directory - Microsoft Entra ID". On the left, there is a navigation pane with sections: Overview (Overview, Diagnose and solve problems), Manage (All applications, Application proxy, User settings, App launchers, Custom authentication extensions (Preview)), and Security (Conditional Access, Permissions, Token encryption), and Activity (Sign-in logs). The main content area shows a search bar with the text "Search by application name or object ID" and a filter for "Application type == Enterprise Applications". Below this, it says "2 applications found" and displays a table with columns: Name, Object ID, and Application ID. The table contains two rows: "OT" for "OIDC Test 1" and "ST" for "SAML Test".

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...

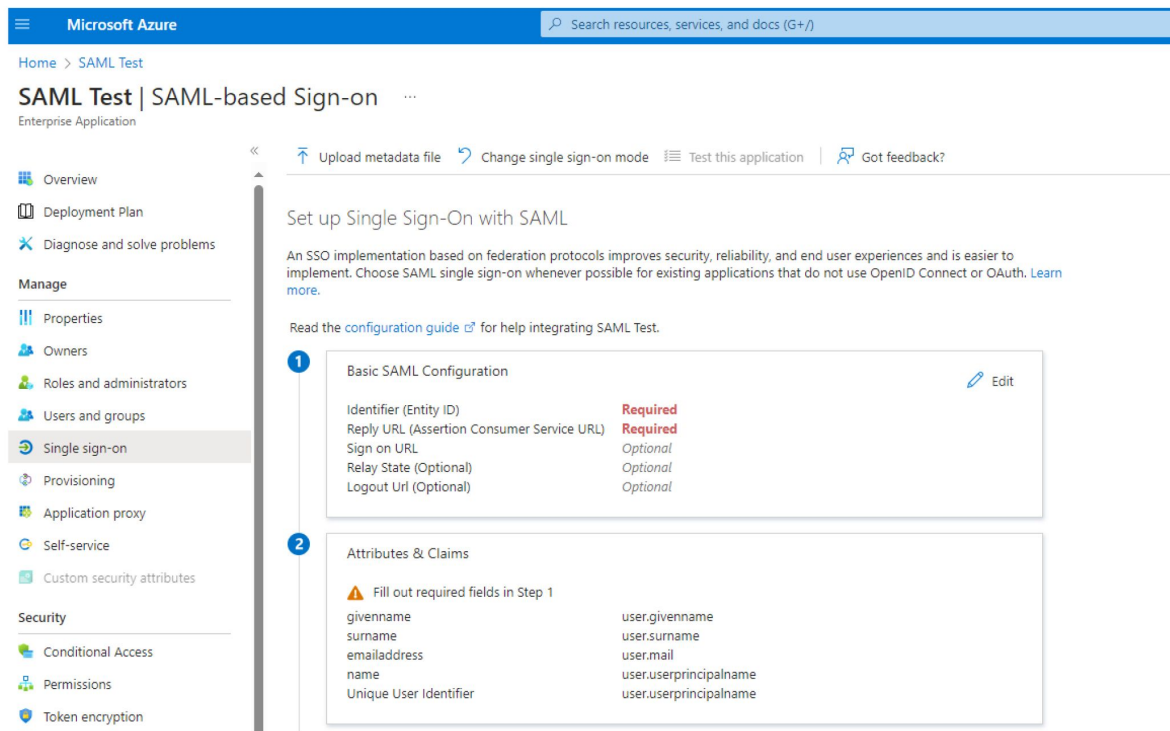
5. On the application overview page, in the Getting Started section, select **Set up single sign on**.

The screenshot shows the Microsoft Azure portal interface for the "SAML Test" application overview. The top navigation bar includes the Microsoft Azure logo and a search bar. The breadcrumb trail is: Home > Default Directory | Enterprise applications > Enterprise applications | All applications > Browse Microsoft Entra ID Gallery >. The main heading is "SAML Test | Overview" with a sub-heading "Enterprise Application". On the left, there is a navigation pane with sections: Overview (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), and Activity (Sign-in logs). The main content area shows the "Properties" section with fields for Name (SAML Test), Application ID (6659d18b-6e83-44f4-8947-...), and Object ID (5bc1a042-00bc-46c5-b06a-...). Below this is the "Getting Started" section with three cards: "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), and "5. Self service" (Enable users to request access to the application using their Microsoft Entra ID credentials, Get started).

6. Select **SAML**.

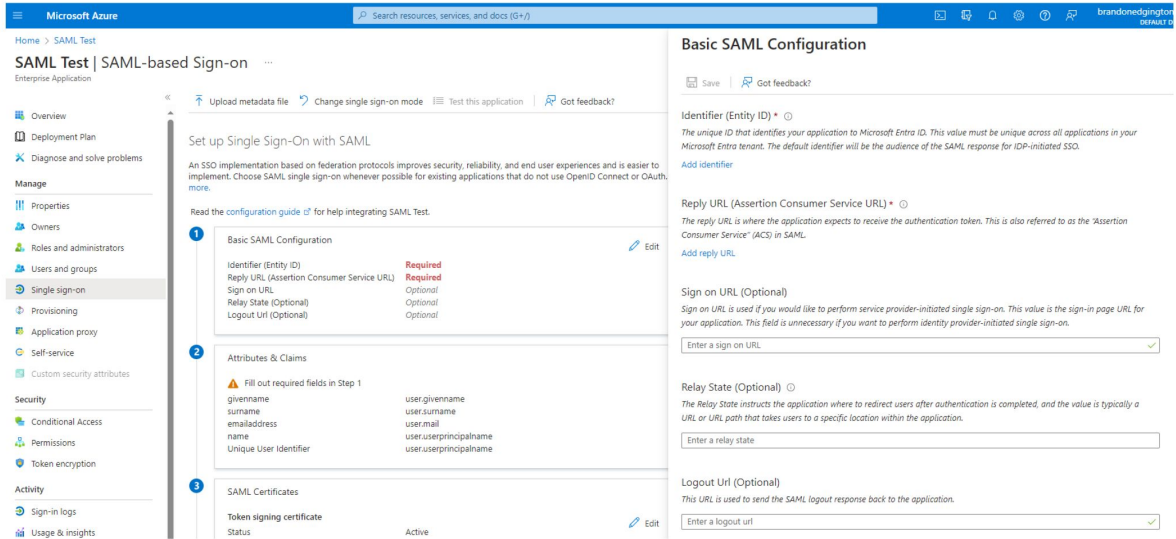


7. In the Basic SAML Configuration section, click **Edit**.

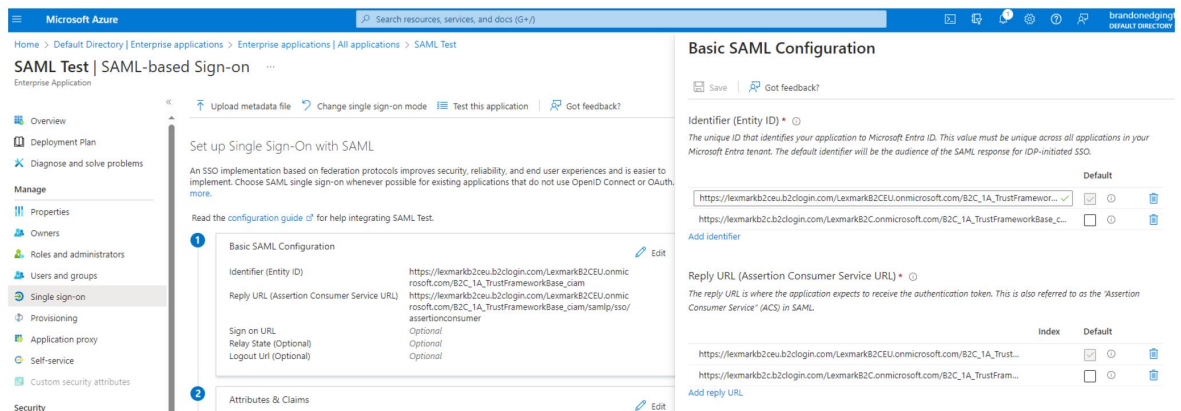


8. In the Basic SAML Configuration window, do the following:





- 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

## SAML Test | SAML-based Sign-on

Enterprise Application

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.

- Basic SAML Configuration** [Edit](#)

Identifier (Entity ID)	https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam
Reply URL (Assertion Consumer Service URL)	https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam/samlp/sso/assertionconsumer
Sign on URL	Optional
Relay State (Optional)	Optional
Logout URL (Optional)	Optional
- Attributes & Claims** [Edit](#)

givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.userprincipalname

## 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**.

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.

- Basic SAML Configuration** [Edit](#)

Identifier (Entity ID)	https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam
Reply URL (Assertion Consumer Service URL)	https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam/samlp/sso/assertionconsumer
Sign on URL	Optional
Relay State (Optional)	Optional
Logout URL (Optional)	Optional
- Attributes & Claims** [Edit](#)

givenname	user.givenname
surname	user.surname
email	user.mail
Unique User Identifier	user.userprincipalname

2. Click **Add new claim**.



Microsoft Azure Search resources, services, and docs (0+)

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 Get 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.

## 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.

Microsoft Azure

Search resources, services, and docs (G+)

Home > Default Directory | Enterprise applications > Enterprise applications | All applications > SAML Test

### SAML Test | SAML-based Sign-on

Enterprise Application

Upload metadata file | Change single sign-on mode | Test this application | Got feedback?

name	user.userprincipalname
Unique User Identifier	user.userprincipalname

#### SAML Certificates

Token signing certificate		Edit
Status	Active	
Thumbprint	A3F5B8967ED645590F60A9DF81E8F99FF33E2091	
Expiration	10/12/2026, 7:14:52 AM	
Notification Email	brandonedgington@outlook.com	
App Federation Metadata Url	<a href="https://login.microsoftonline.com/e0f41ab4-4377-...">https://login.microsoftonline.com/e0f41ab4-4377-...</a>	
Certificate (Base64)	<a href="#">Download</a>	
Certificate (Raw)	<a href="#">Download</a>	
Federation Metadata XML	<a href="#">Download</a>	

#### Verification certificates (optional)

		Edit
Required	No	
Active	0	
Expired	0	

#### Set up SAML Test

You'll need to configure the application to link with Microsoft Entra ID.

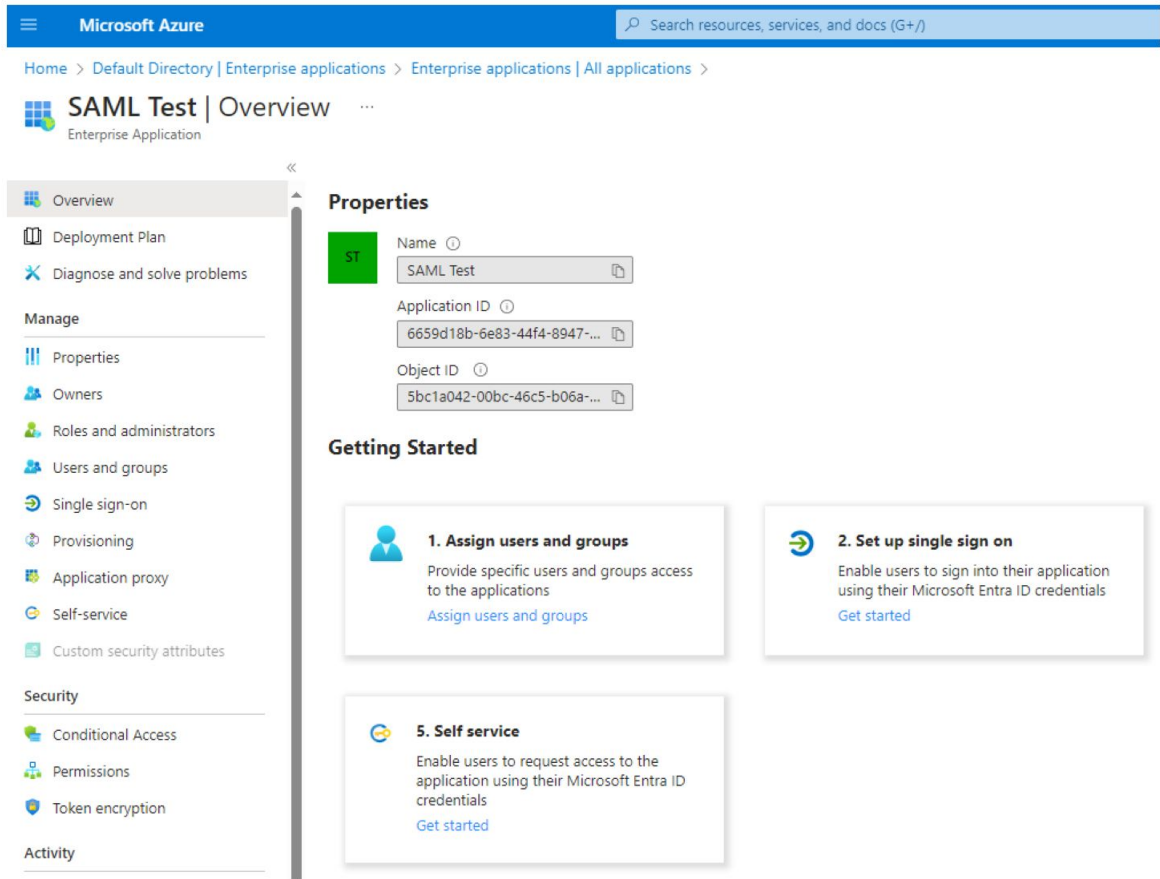
Login URL	<a href="https://login.microsoftonline.com/e0f41ab4-4377-...">https://login.microsoftonline.com/e0f41ab4-4377-...</a>
Microsoft Entra ID Identifier	<a href="https://sts.windows.net/e0f41ab4-4377-49eb-952-...">https://sts.windows.net/e0f41ab4-4377-49eb-952-...</a>
Logout URL	<a href="https://login.microsoftonline.com/e0f41ab4-4377-...">https://login.microsoftonline.com/e0f41ab4-4377-...</a>

**Note:** The App Federation Metadata Url, Login URL, and Logout URL are required for configuring the Lexmark Cloud Services portal.

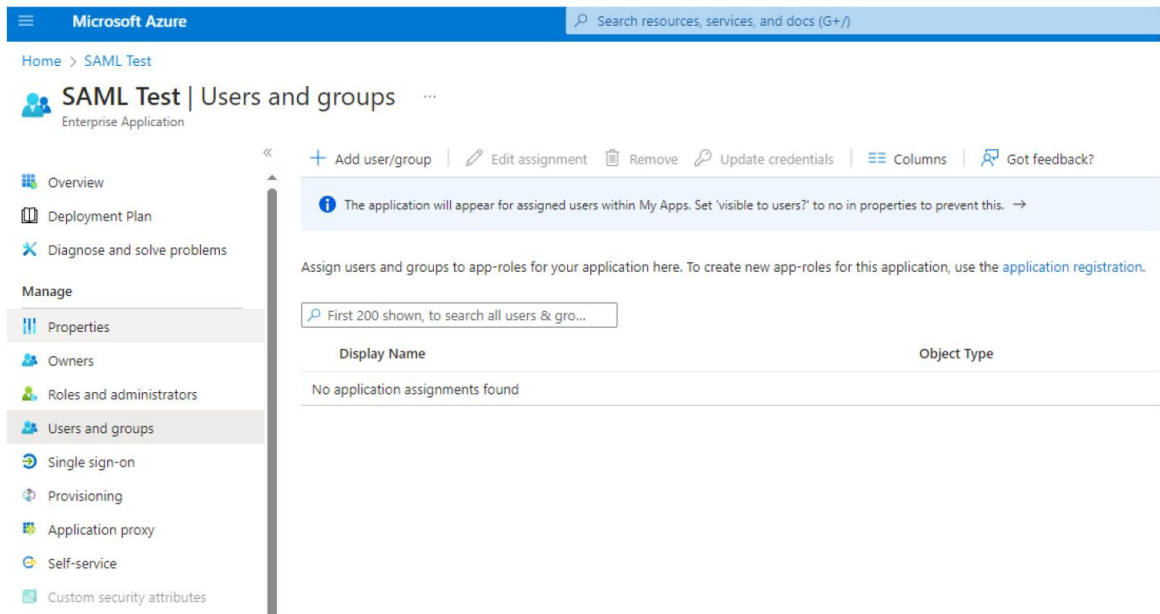
## Assigning groups and users

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.

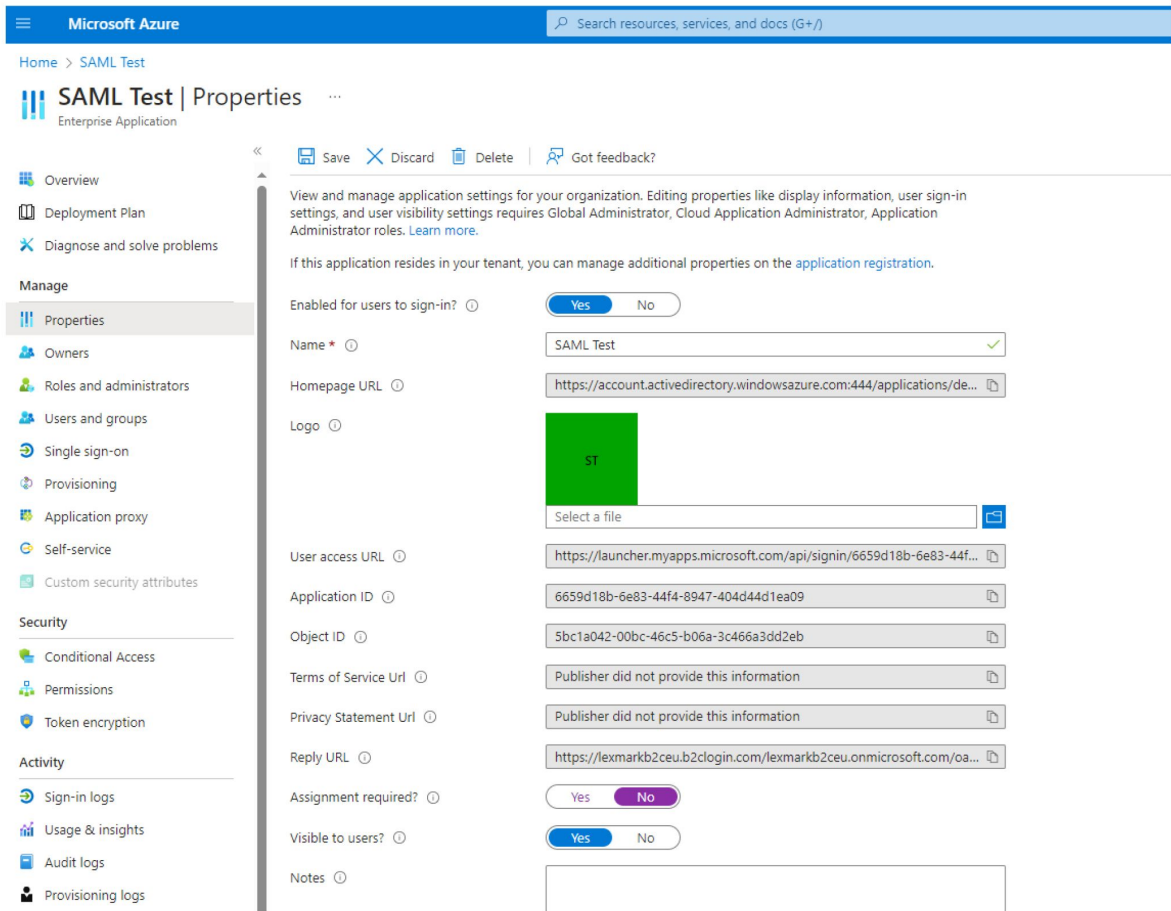
1. Select **Microsoft Azure**.
2. Select **Microsoft Entra ID**.
3. In the Manage section, click **Enterprise applications**.
4. Select the application that you created.
5. On the application overview page, in the Getting Started section, select **Assign users and groups**.



6. In the Manage menu, select **Properties**.



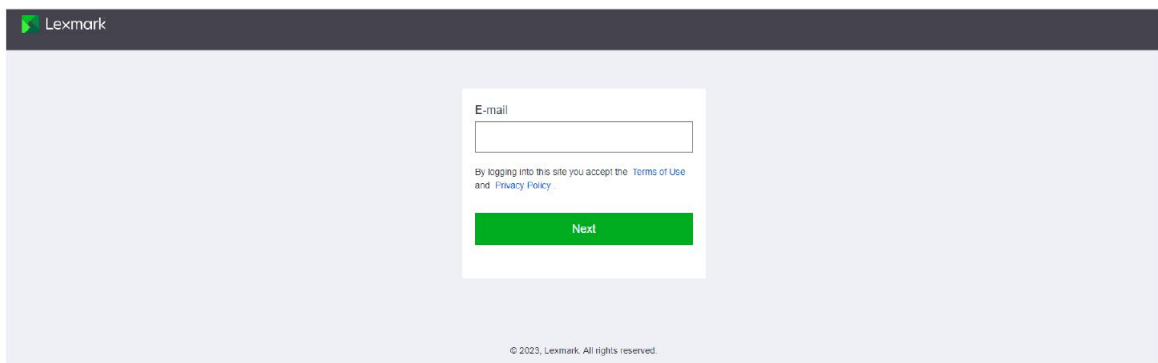
7. On the Properties page, in the Assignment required? section, select **Yes** or **No**.



## Configuring Lexmark Cloud Services

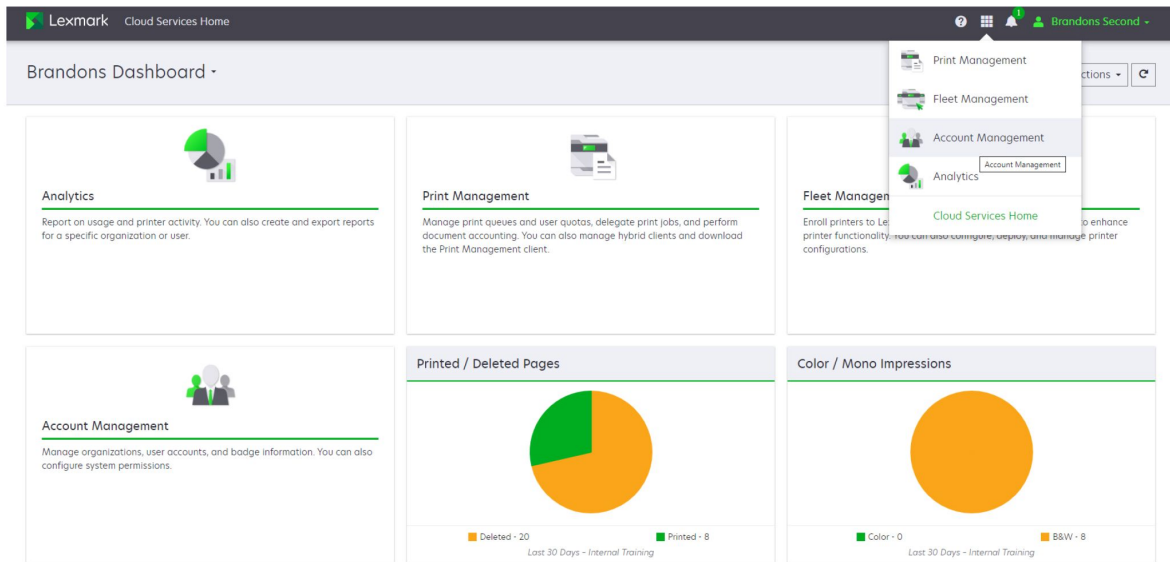
The screenshots may vary depending on the latest release.

1. Log in to Lexmark Cloud Services.

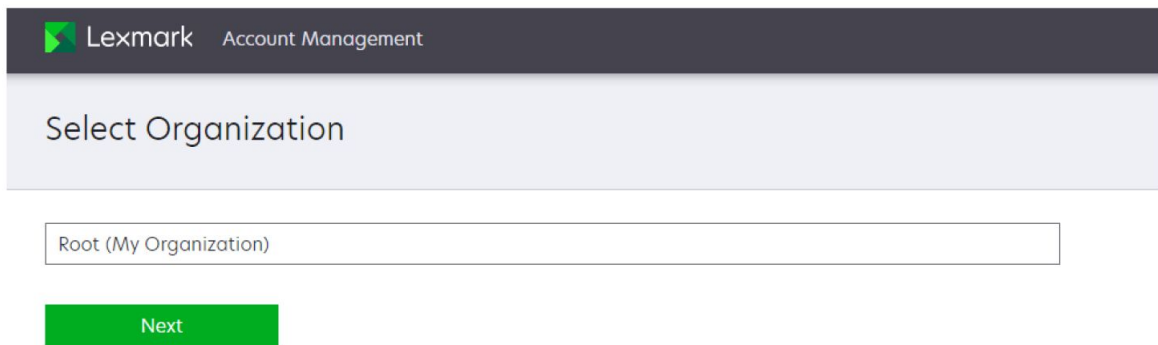


2. From the navigation menu on the right side of the screen, select **Account Management**.

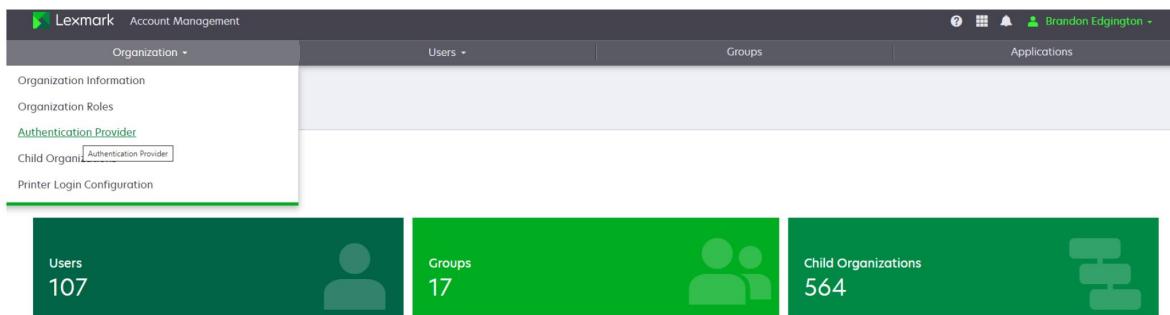
# Account Management



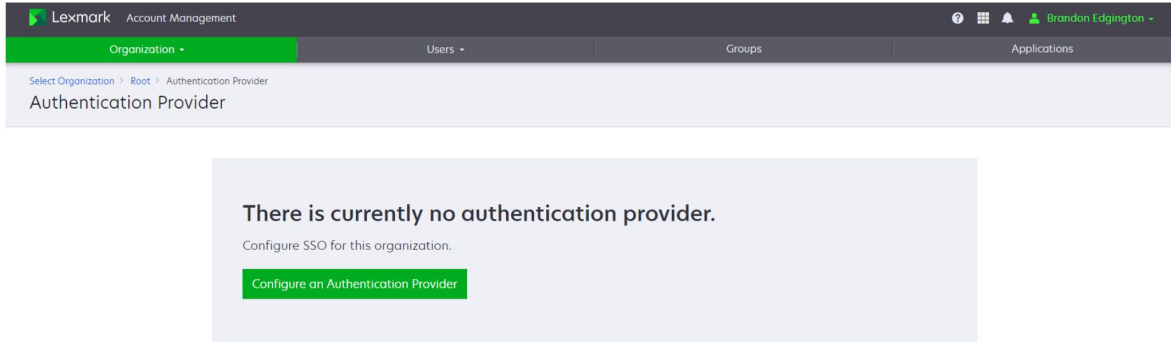
3. If necessary, select your organization, and then click **Next**.



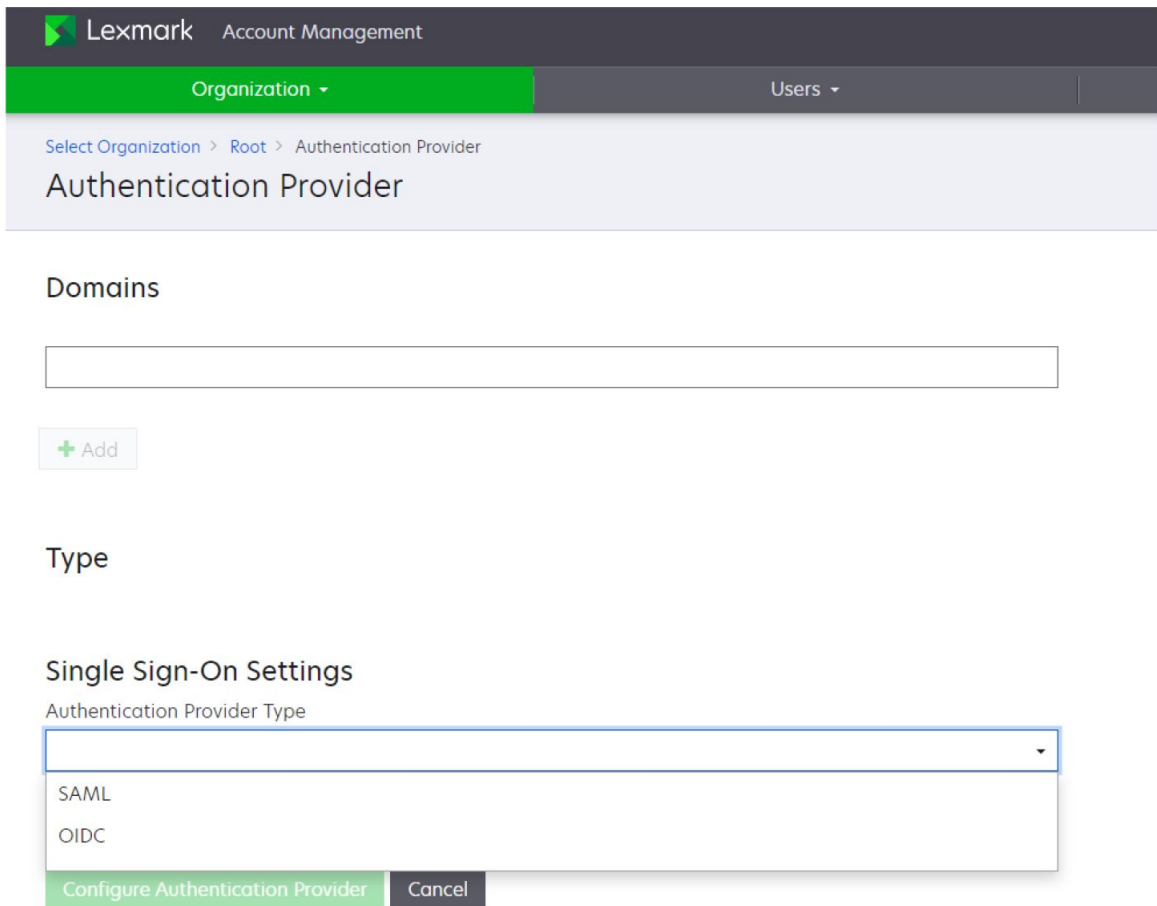
4. From the Organization menu, select **Authentication Provider**.



5. Click **Configure on Authentication Provider**.



6. From the Authentication Provider Type menu, select **SAML**.



**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

If you want configure the SAML Authentication Provider section with Metadata URL, then perform the following steps:

1. 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 is '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' is set to 'SAML'. The 'Sub-Type' is 'With Metadata URL'. Under 'Single Sign-On Settings', the 'Authentication Provider Type' is set to 'SAML'. 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 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' and 'Cancel'.

2. 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 269](#)

3. Click **Configure Authentication Provider**.

### Without Metadata URL

If you want configure the SAML Authentication Provider section without Metadata URL, then perform the following steps:

1. 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)

2. 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](https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam)
  - For US: [https://lexmarkb2c.b2clogin.com/LexmarkB2C.onmicrosoft.com/B2C\\_1A\\_TrustFrameworkBase\\_ciam](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.



3. 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.

4. 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 277](#).

## 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](https://lexmarkb2ceu.b2clogin.com/LexmarkB2CEU.onmicrosoft.com/B2C_1A_TrustFrameworkBase_ciam)
- For US: [https://lexmarkb2c.b2clogin.com/LexmarkB2C.onmicrosoft.com/B2C\\_1A\\_TrustFrameworkBase\\_ciam](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.

### Configure the standard authentication

You can set the printers to authenticate users using their permanent or temporary badge, a PIN, or user credentials.

1. From the Account Management web portal, click **Organization** > **Printer Login Configurations**.
2. 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.
3. Click **Save Changes**.

### Configure Badge + PIN as second factor

You can configure the printers to authenticate users using both their permanent or temporary badge and a PIN.

1. From the Account Management web portal, click **Organization** > **Printer Login Configurations**.
2. Click **Badge + PIN as second factor**.
3. From the PIN Details section, configure the PIN details.
4. If necessary, to let users log in to the printers using their user credentials, select **Secure Login**.
5. 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 243](#).

You can also import the PINs using a CSV or text file. For more information, see [Managing PINs on page 282](#).
    - **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

### 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.

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.

## 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.

## Register a badge

1. 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.

2. Click **Register Badge**.

## Delete badges

1. 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.

2. Click **Delete Badges**.

## Import badges

For information on creating a CSV file, see [Sample CSV formats on page 283](#).

1. Click **Import Badges** or **Import**, and then browse to the CSV or TXT file.
2. Click **Import Badges**.

**Note:** You can also register or delete badges for users. For more information, see [Managing users on page 243](#).

## 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

1. Click **Generate**, and then type the user e-mail address.
2. Click **Generate PIN**.

### Delete PINs

1. Select one or more users, and then click **Delete**.
2. Click **Delete PINs**.

### Import PINs

For information on creating a CSV file, see [Sample CSV formats on page 283](#).

1. Click **Import PINs** or **Import**, and then browse to the CSV or TXT file.
2. 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 39](#).
- 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 [Supported printer models on page 39](#).
- 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 39](#)

### 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 31](#).

- 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

1. From the Fleet Management web portal, select an organization.
2. Click **Agents > Printer Agents**.

The screenshot shows the 'Agents' section of the Fleet Management interface. The 'Printer Agents' tab is selected, displaying a table of 19 printer agents. The table has the following columns: Printer Agent (with a checkbox), Version, Update Available, Polling Interval (minutes), and Log Level. The agents listed include IDs such as 10194.19.247, 10194.29.35, 10194.2.57, 10194.2.71, 10194.2.108, 10194.6.201, 10194.7.207, 10194.8.131, 10194.8.179, 10194.10.81, and 10194.17.02. The 'Update Available' column shows 'Yes' for most agents, and the 'Log Level' column shows 'Summary' or 'Detailed'.

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"/> 10194.17.02	3.0.14	Yes	5	Detailed

### 3. 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 299](#).

- 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**.

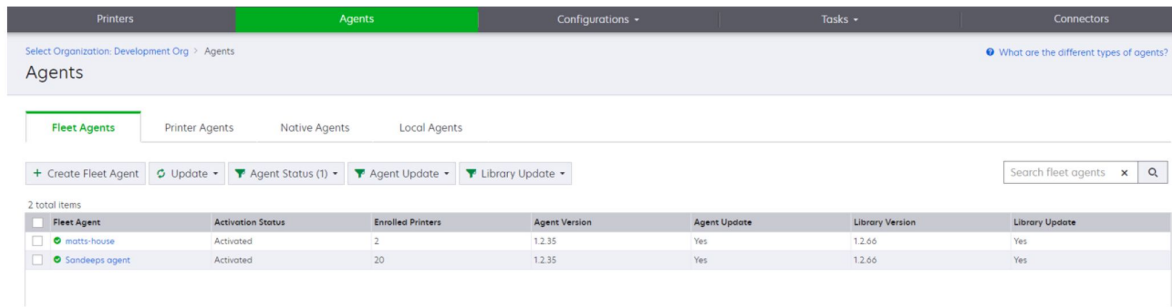
#### Notes

- This setting is also available when enrolling printers. For more information, see [Enrolling printers using the Printer Enrollment Tool on page 299](#).
- You can also update the agent credentials using the Embedded Web Server. For more information, see [Accessing the Printer Agent on page 301](#).

- 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**.



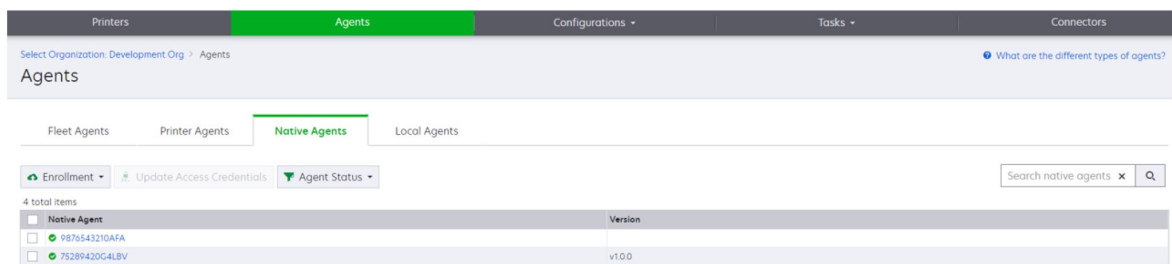
3. Do one or more of the following:

**Note:** If no agent is listed, then create a Fleet Agent. For more information, see [Creating a Fleet Agent on page 303](#).

- 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 "Using the Native Agent" section or [Enrolling printers using the Printer Enrollment Tool on page 299](#).

- 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**.

Local Agent	Activation Status	Enrolled Printers	Version	Update Available
<input type="checkbox"/> DESKTOP-BN07DNN	Activated	0		
<input type="checkbox"/> PM90	Activated	3		
<input type="checkbox"/> SEKHARD	Activated	1		

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.

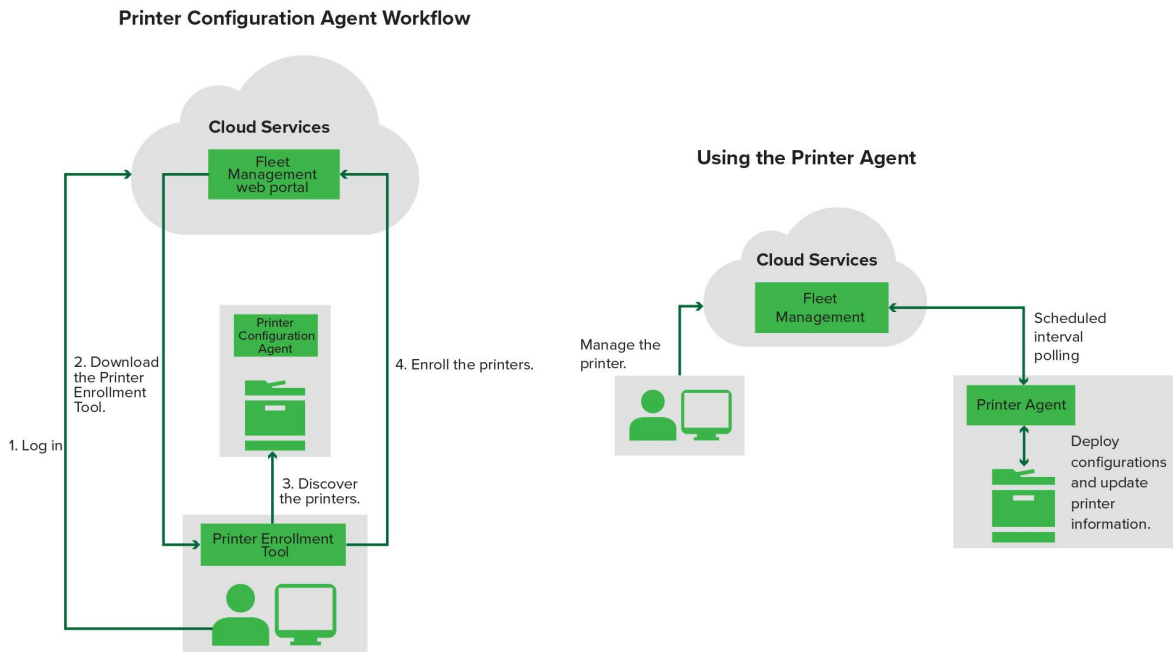
## Notes

- 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

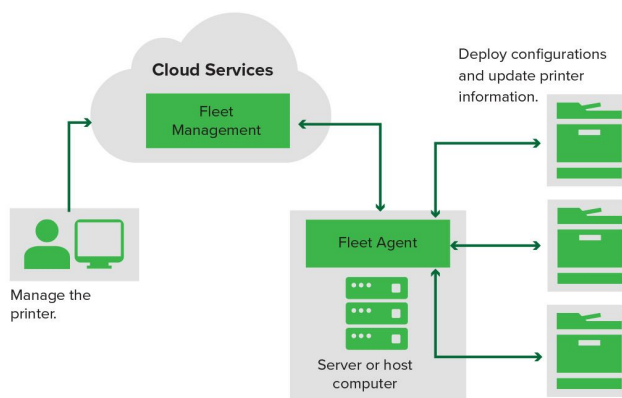
1. Log in to the Lexmark Cloud Services website.
2. Download and run the Printer Enrollment Tool.
3. Discover the printers in your network.
4. Enroll the printers.
5. The printers are shown in the Fleet Management web portal.



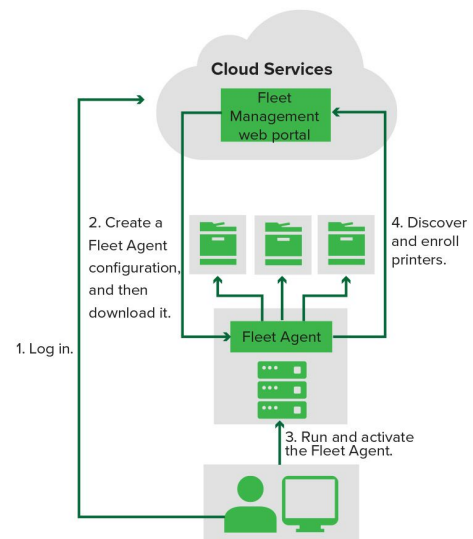
## Notes

- 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 53](#).

### Using the Fleet Agent



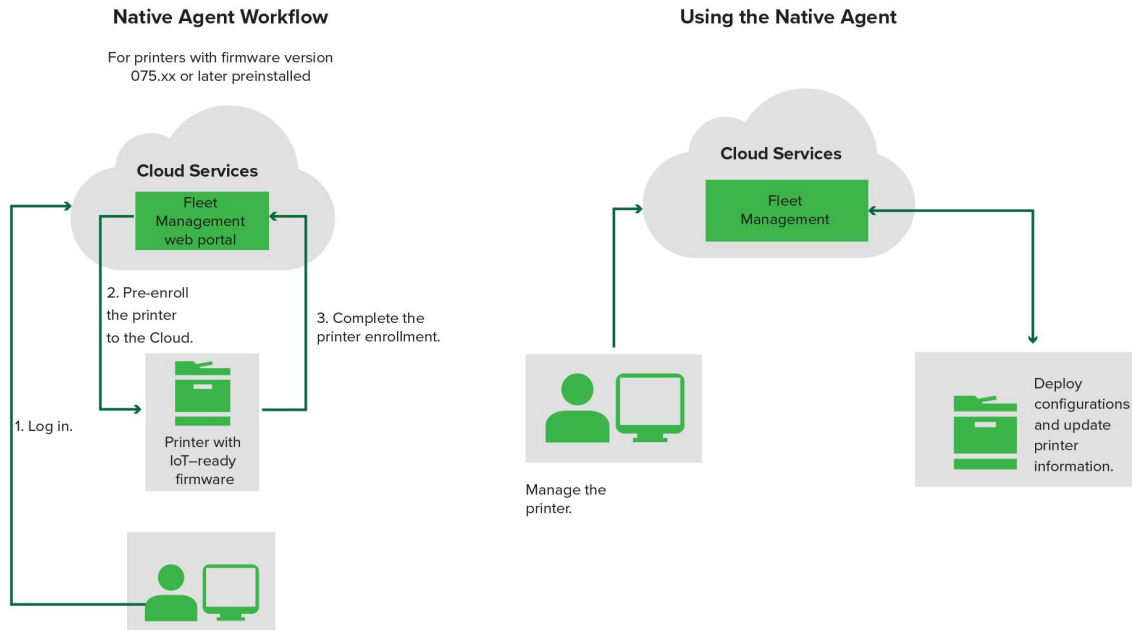
### Fleet Agent Workflow



## 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.



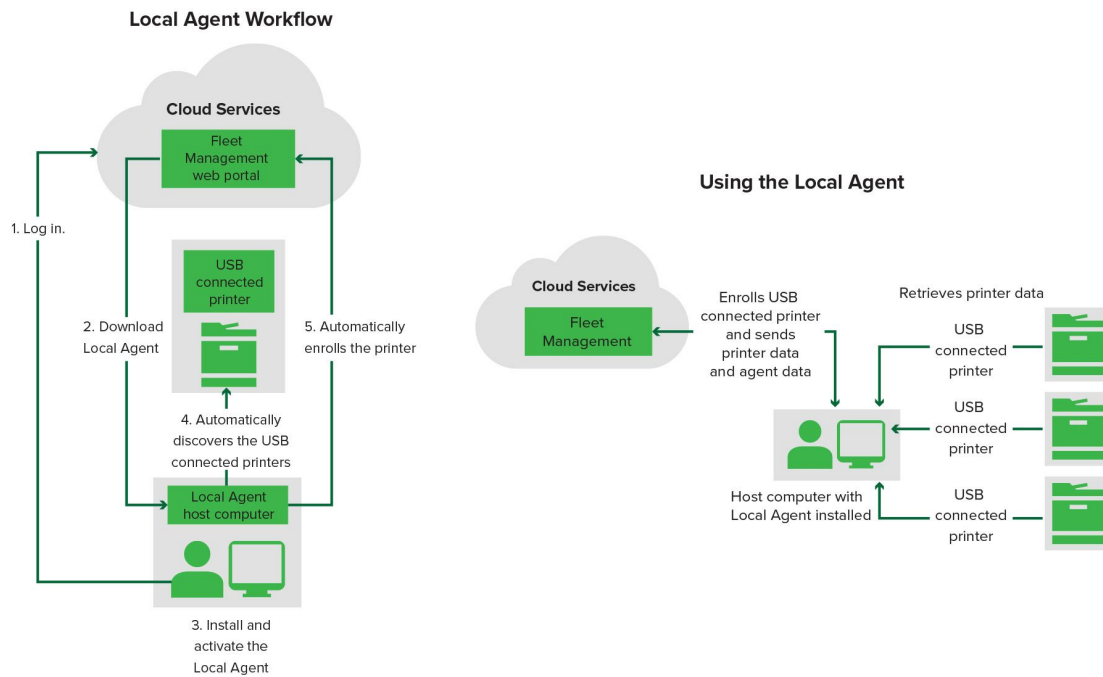
## Using the Native Agent

**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 39](#).

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 311](#).



## 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

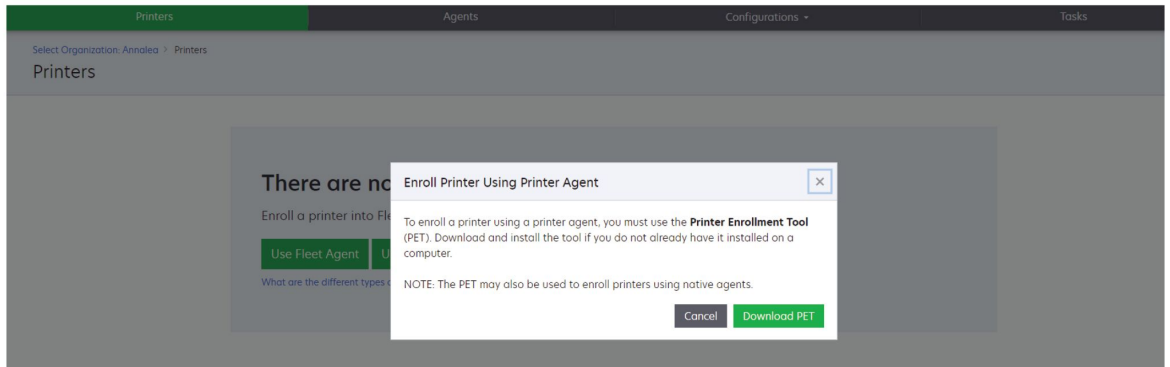
### Downloading the Printer Enrollment Tool

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.

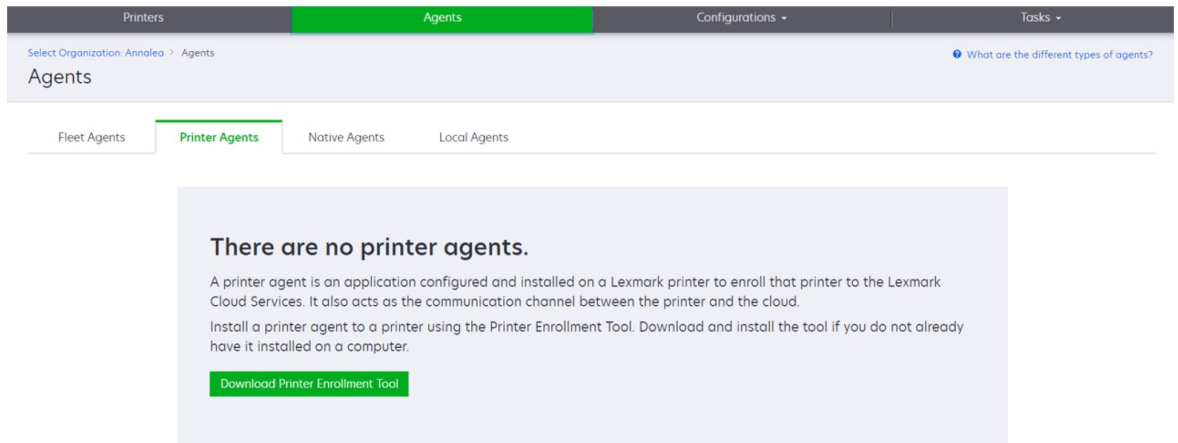
1. From the Fleet Management web portal, do one of the following:

If you are enrolling devices in Lexmark Cloud Services for the first time, then you can download the PET by following the steps:

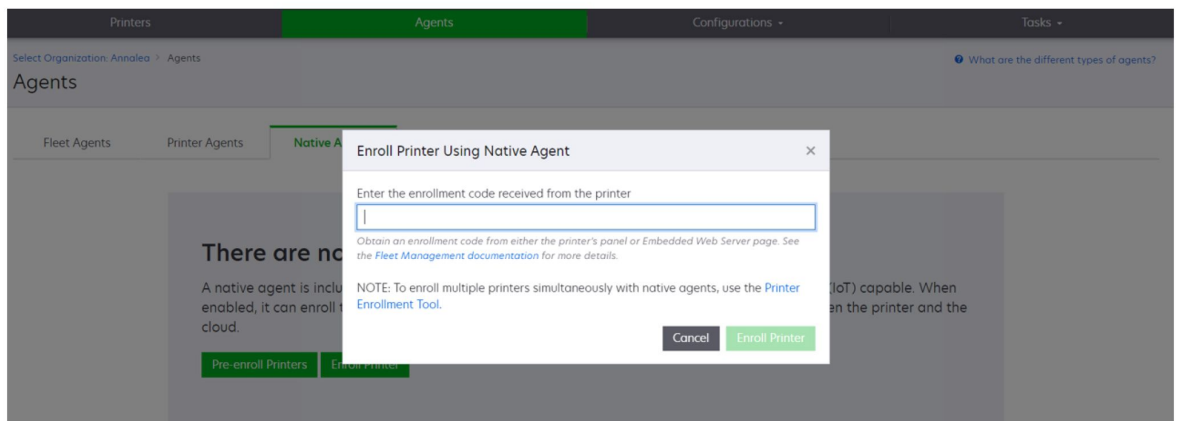
- Click **Use Printer Agent > Download PET**.



- Click **Agents > Printer Agents > Download Printer Enrollment Tool**.

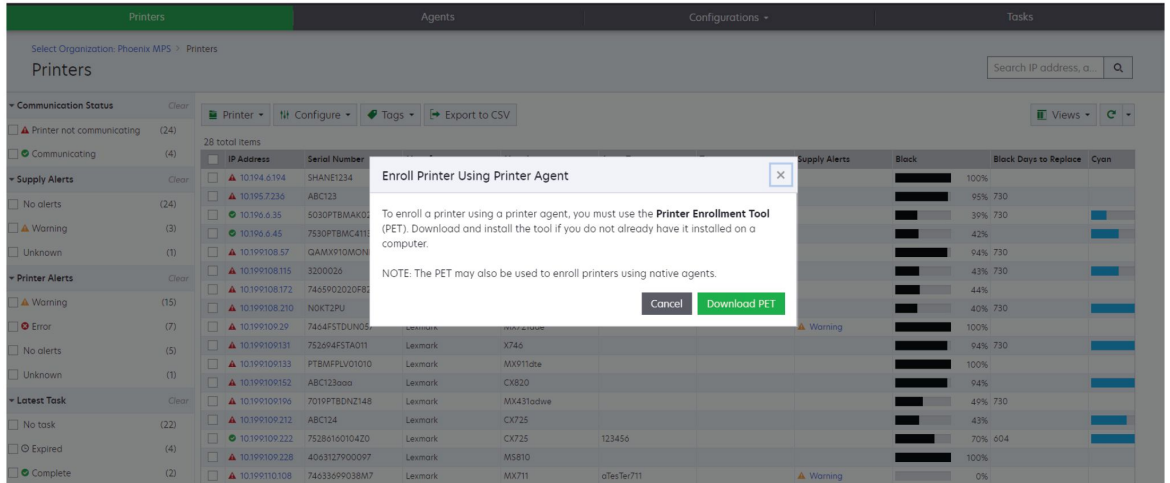


- Click **Agents > Native Agents > Enroll Printer > use the Printer Enrollment Tool**.

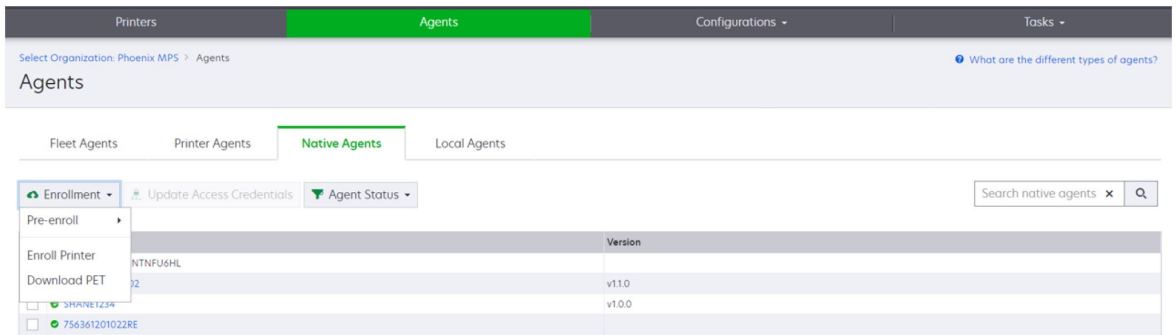


If you already have some devices enrolled, then you can download the PET by following the steps:

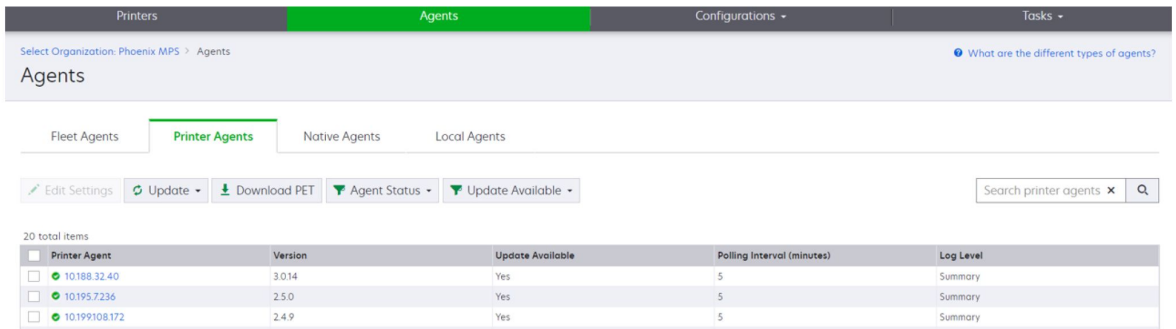
- Click **Printer > Enroll printer using > Printer agent > Download PET**.



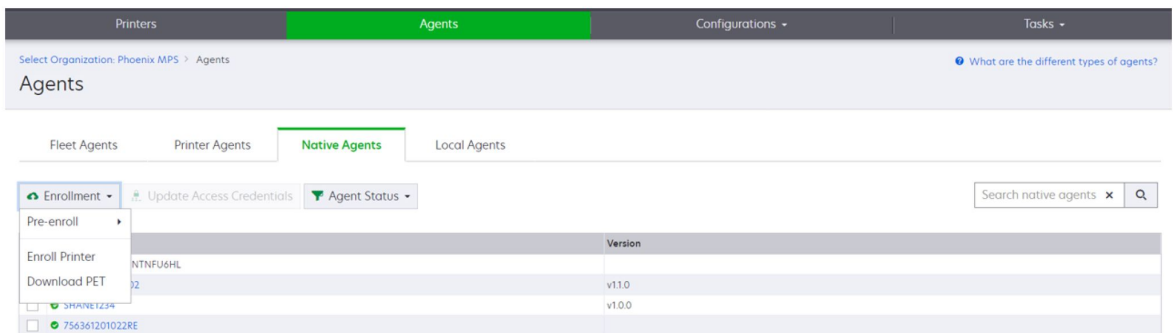
- Click **Printer > Enroll printer using > Native agent > Enrollment > Download PET**.



- Click **Agents > Printer Agents > Download PET**.



- Click **Agents > Native Agents > Enrollment > Download PET**.



- 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 295](#).

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 53](#).
- 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 320](#).

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**.

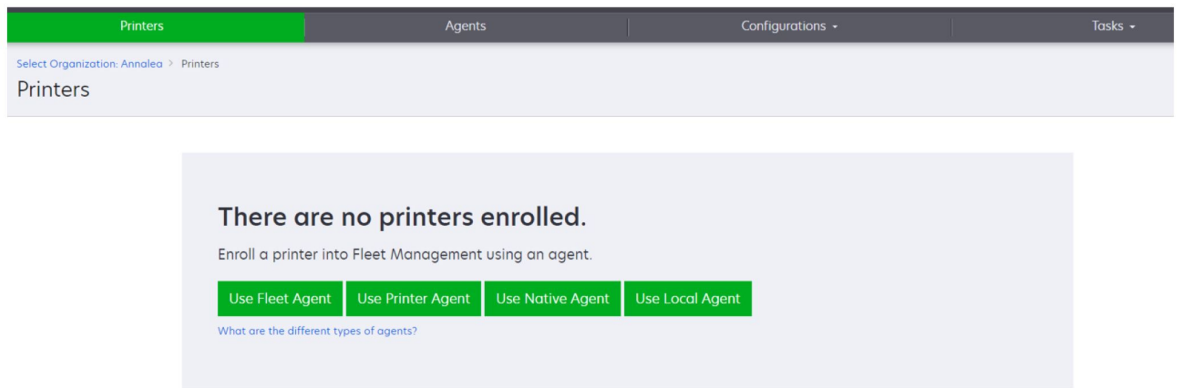
# Using the Fleet Agent

## Creating a Fleet Agent

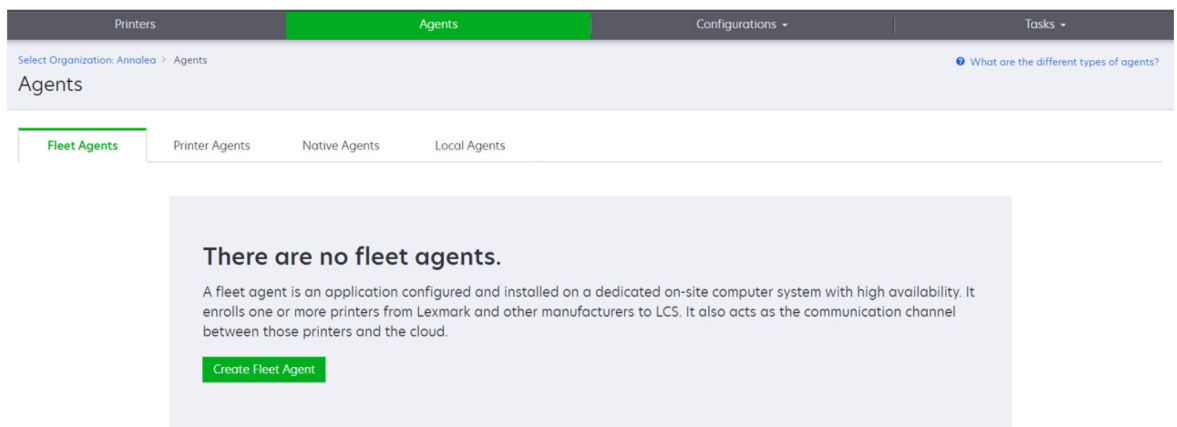
The Fleet Agent discovers and enrolls printers in the Lexmark Cloud Services website.

**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 to 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 303](#).

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 307](#).

## 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 308](#).
  - 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.

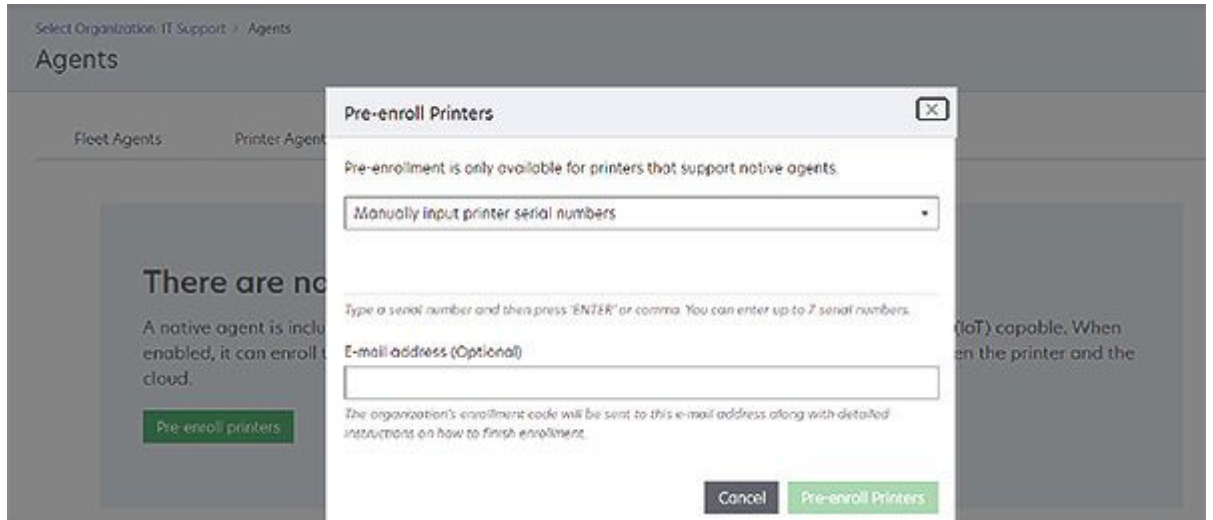
**Note:** To determine the printer firmware version, see [Viewing the printer firmware version on page 53](#).

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



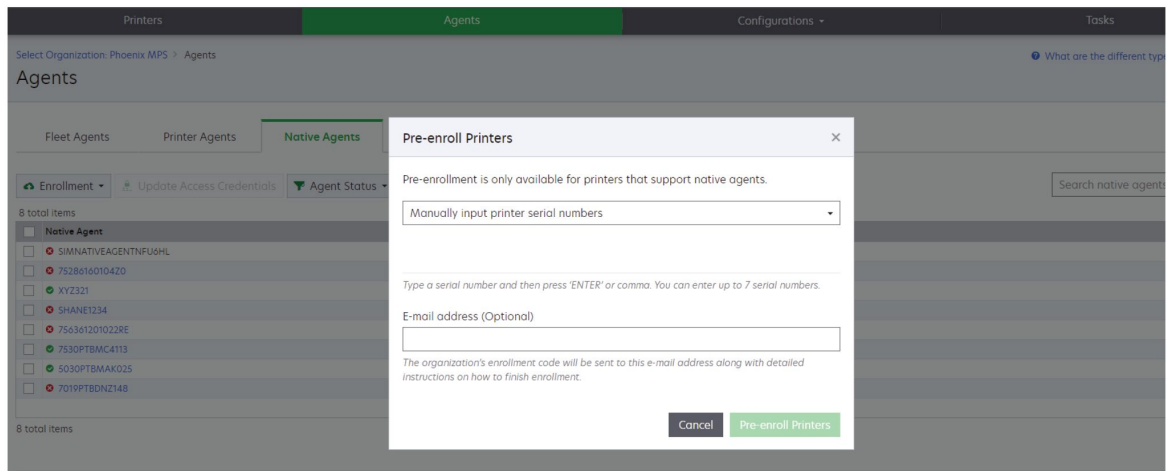
If no devices are enrolled:

- 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:

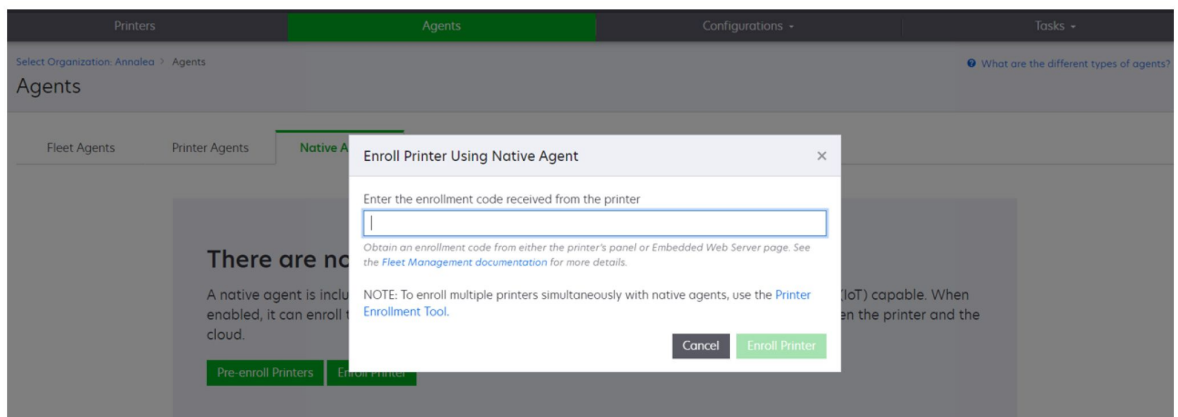
- You have not pre-enrolled the printer.
- You have not enrolled the printer using the Native Agent.
- The printer is manufactured and shipped with firmware 075.001 or later.
- The recommended firmware is 081.215 or later.

**Note:** To determine the printer firmware version, see [Viewing the printer firmware version on page 53](#).

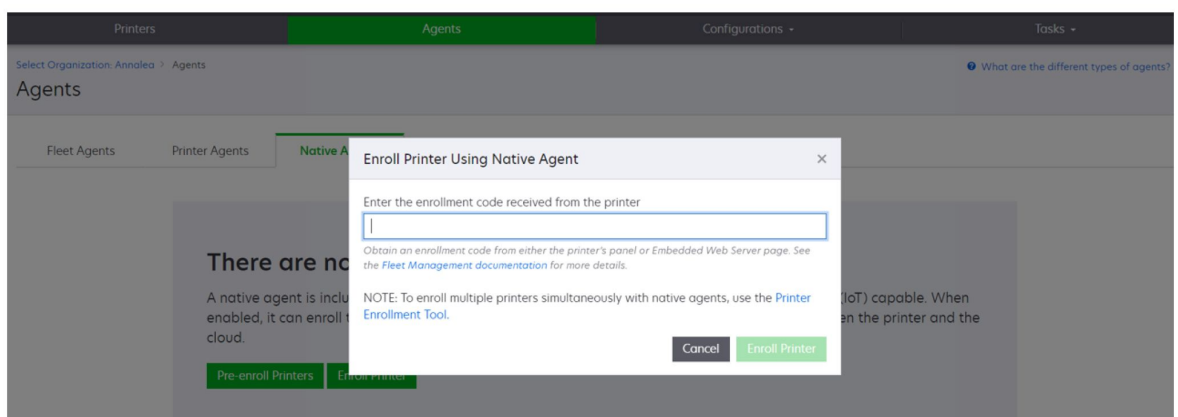
1. From the printer home screen, do one of the following:
  - Touch **Settings > Cloud Services > Cloud Services Enrollment**.
  - Touch **Settings > Lexmark Cloud Services > Cloud Fleet Management**.

**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.

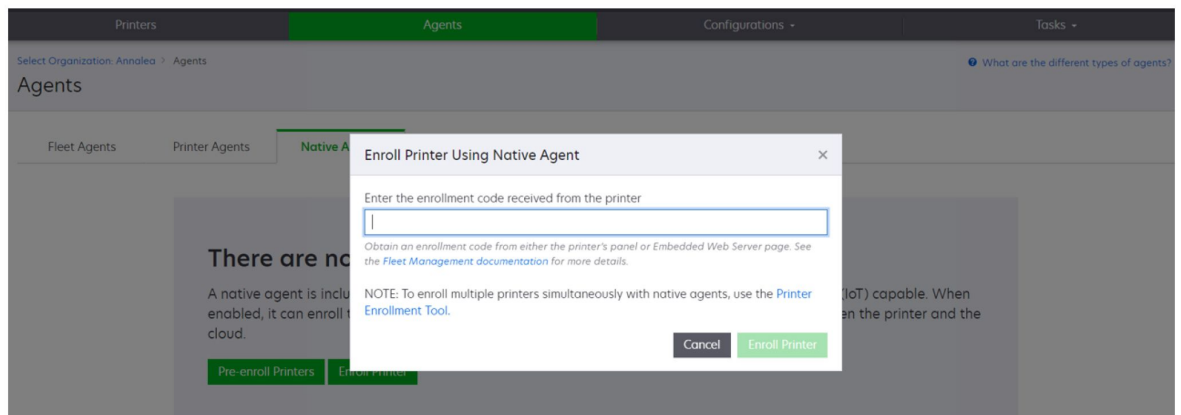
- You have not enrolled the printer using the Native Agent.
- The printer is manufactured and shipped with firmware 075.001 or later.
- The recommended firmware is 081.215 or later.

**Note:** To determine the printer firmware version, see [Viewing the printer firmware version on page 53](#).

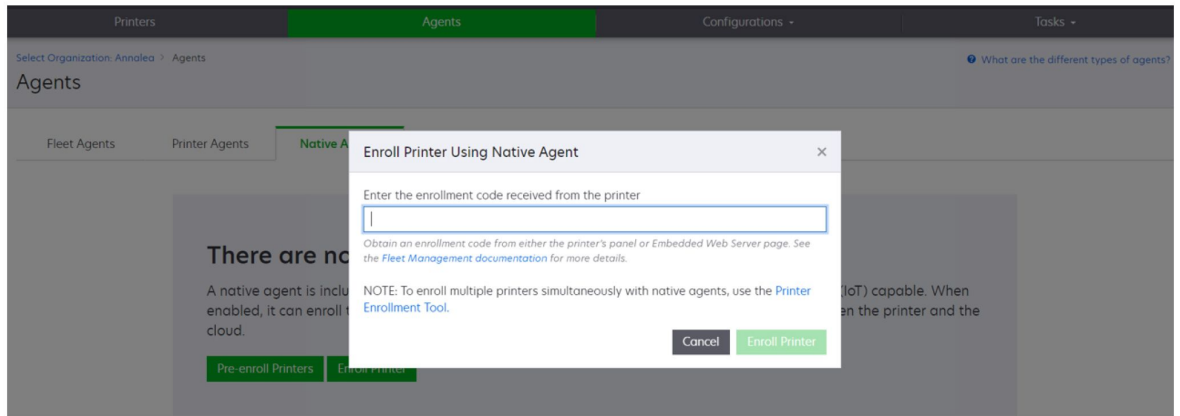
1. From the Embedded Web Server, do one of the following:
  - Click **Settings > Cloud Services > Cloud Services Enrollment**.
  - Click **Settings > Lexmark Cloud Services > Cloud Fleet Management**.

**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

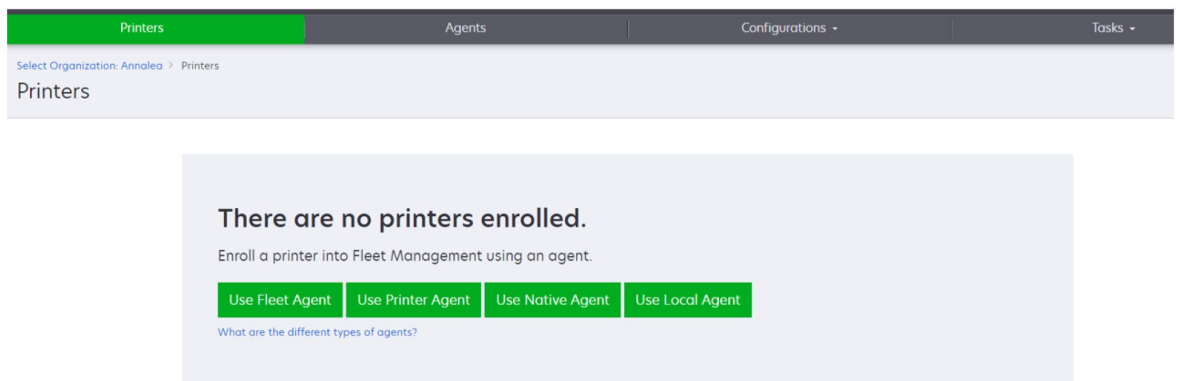
1. From the Fleet Management web portal, do either of the following:
  - Click **Agents > Native Agents > Enrollment > Pre-enroll > Remove pre-enrolled printers.**
  - Click **Printers > Select a specific printer > Remove pre-enrolled printers.**
2. Click **Remove.**

**Note:** To remove an enrolled printer, see [Unenrolling printers on page 335](#).

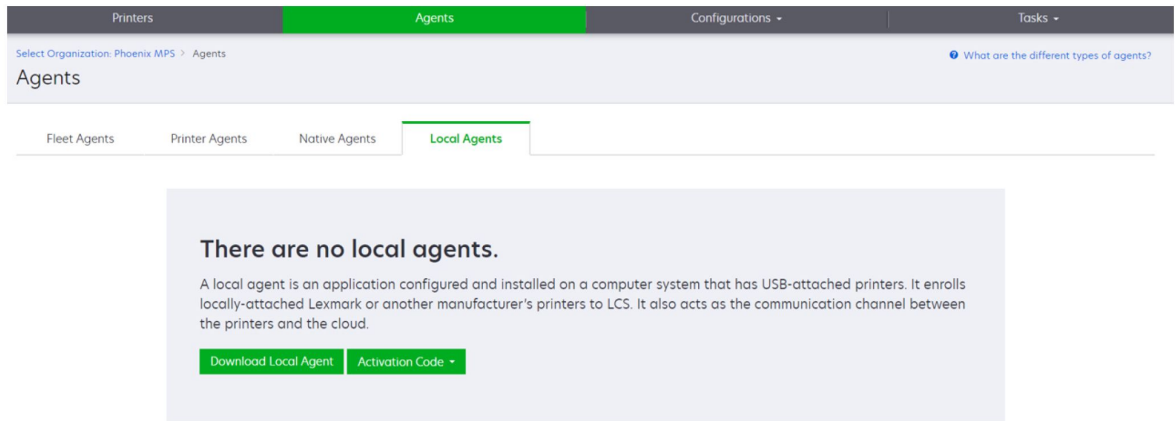
## Using the Local Agent

### 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 314](#).

## 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**.

### Deactivate an agent

- a. To deactivate a local agent, click **Deactivate Agent**.
- b. Click **Deactivate Agent**.

### 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=  
Thursday, January27 06:21:13 : tid=10636 : LPMAMain(352) : Lexmark Local Age  
Thursday, January27 06:24:57 : tid=10636 : LPMAMain(360) : Lexmark Local Age  
Thursday, January27 06:25:51 : tid=7024 : LPMAMain(352) : Lexmark Local Agen  
Thursday, January27 06:27:06 : tid=7024 : LPMAMain(360) : Lexmark Local Agen  
Thursday, January27 06:27:11 : tid=14108 : LPMAMain(352) : Lexmark Local Age  
Thursday, January27 11:41:08 : tid=3984 : LPMAMain(352) : Lexmark Local Agen  
Saturday, January29 01:45:02 : tid=4100 : LPMAMain(352) : Lexmark Local Agen
```

# 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 290](#).

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 336](#).
  - 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 320](#).

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.

## Creating a view

1. From the Fleet Management web portal, click **Printers > Views**.
2. Click **Create view**.
3. Type a unique view name.
4. In the **Column 1 (printer identification)** menu, select the identification type.
5. From the **Available columns** section, select the information that you want to show as a column, and then click **>**.

**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.

6. To rearrange the column order, click **^** or **v**.
7. Click **Create View**.

**Note:** The created view is applied automatically, and becomes the default view.

## Editing a view

1. Click **Manage views**.
2. Click a view name, and then configure the settings.
3. Click **Save Changes**.

**Note:** You cannot edit system-generated views. The view that is created from this page does not become the default view.

## Deleting views

1. Click **Manage views**.
2. Select one or more views, and then click **Delete**.
3. Click **Delete Views**.

**Note:**

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.

## Copying a view

1. Click **Manage views**.
2. Select a view, and then click **Copy**.
3. Configure the settings.
4. 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 320](#).
- 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 326](#).
- 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

#### Print

Total Print Count	95340
Mono	11983
Color	83357

#### Print Details

Two-sided	12815 Sheets
-----------	--------------

#### Copy

Total Copy Count	6018
Mono	526
Color	5492

#### Other Meters

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"/>	10.194.19.247	Fleet	MX824de		272	272	33	3069
<input checked="" type="checkbox"/>	10.194.29.35	Printer	MX711	0	12476	12476	23	18034
<input checked="" type="checkbox"/>	10.194.29.232	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.

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	CAH1609824E2	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 Kit	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

Filters: Communicating (6)

6 total items

IP Address	Model	Black (%)	Black Photoconductor...	Days to Replace Last ...	Black Days to Replace
10.196.6.35	C5735de	34%			730
10.196.6.45	CX735adhe	37%			
10.197.53.108	CX860	100%	100%		
10.199.109.222	CX725	70%			
10.199.110.247	MX431adwe	49%	84%		730

- 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 334](#).

- The installed applications

**Note:** You can start, stop, or uninstall applications. For more information, see [Managing applications on page 330](#).

- 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 39](#).

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
502706946HRC
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 301](#).

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 39](#).

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 320](#).

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 **Update Apps**.
- e. 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 54](#).

### For printers with eSF version 5.0 or later


1. Click **Apps > App Framework Configuration**.
2. From the Framework Configuration section, clear **Use printer's proxy settings**.
3. From the HTTPS: section, type the proxy server host name or IP address.
4. From the Proxy Credentials section, type the user name and password.
5. Save the settings.

### For printers with eSF version 4.0 or earlier

1. 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**.
2. Clear **Use printer's proxy settings**.
3. From the HTTPS section, type the proxy server host name or IP address.
4. From the Proxy Credentials section, type the user name and password.
5. 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:
    1. 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



**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**.

### 2. 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**.
    1. Make sure that **Specific date and time** is selected.
    2. In the Scheduled task name field, type the name of the task.
    3. Configure the start date and start time.
    4. Select the time zone.
    5. 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**

## 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 359](#).

## 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 339](#).

## 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

### Editing a Resource

**Note:** You cannot edit resources that are assigned to a configuration.

1. From the Fleet Management web portal, click **Configurations** › **Resource Library**.
2. Click a resource name, and then edit the name or description.
3. Click **Save Changes**.

### Deleting 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.

1. From the Fleet Management web portal, click **Configurations** › **Resource Library**.
2. Select one or more resources, and then click **Delete**.
3. Click **Delete Resources** to confirm.

### Downloading Resources

**Note:** To view resources by type, click **Type**, and then select the resource type.

1. From the Fleet Management web portal, click **Configurations** › **Resource Library**.
2. To download an application resource, click the resource name, and then click **Download the imported app** for this resource.
3. To download printer settings, click the resource name, and then click **Download the Settings bundle** for this resource.

## 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 340](#)

- 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. 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 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 340](#)

## 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.

3. 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.

4. 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**.
5. 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 39](#).

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 331](#).

## 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.
- 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.



- 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 350](#).

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" chapter.
- The printers meet the eligibility criteria for MPS Express. For more information on eligibility criteria, see [Adding printers to MPS Express on page 353](#).

#### 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 [Adding printers to MPS Express on page 353](#).

#### 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 [Adding printers to MPS Express on page 353](#).

#### 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 [Adding printers to MPS Express on page 353](#).

### Entitle child organization to MPS Express

entitling-child-organization-mps-server

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 239](#).

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

manage-contact-mps

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**

create-and-assign-supply-delivery-contact-list

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**

assign-supply-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.

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 on 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 473](#).
- **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:** 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.

## Scheduling tasks

Scheduling recurring tasks can be done only for performing configuration policy conformance and enforcement. For more information on performing configuration policy conformance and enforcement, see "Performing configuration policy conformance and enforcement" group.

**Note:** While selecting an organization, if you select an individual organization, only then you can create a recurring task.

1. From the Fleet Management web portal, click **Tasks > Schedule**.
2. On the Schedule page, click **Create**.
3. On the Create Scheduled Task page, configure the following:
  - a. In the Name field, type the name of the task.
  - b. From the Task type menu, select **Check conformance** or **Enforce assigned configuration**.
  - c. From the Run task for these printers menu, select any of the following:
    - **All printers**—Creates a task for all printers.
    - **Tags**—Creates a task for the printers grouped under the selected tags.



**Note:** Make sure that you select the tags, and then click **Save**. For more information on tags, see [Assigning tags to printers on page 327](#).

- **Filter group**—Creates a task for the printers under the selected group.

**Note:** Make sure that you select the filter group, and then click **Save**. You can select one filter group only. For more information on filter groups, see [Managing filter groups on page 318](#).

- d. In the Date and Time section, configure the following:
    - **Start date**—Set the start date for the recurrence task.
    - **End date**—Set the end date for the recurrence task.
    - **Start time**—Set the start time for the recurrence task.
    - **Select time zone**—Select the time zone according to which the start date, end date, and start time work.
  - e. In the Recurrence section, select one of the following:
    - **Once**—The task is executed only once as configured in the Date and Time section.
    - **Daily**—The task is executed once daily during the entire duration, as configured in the Date and Time section.
    - **Weekly**—This task is executed on specified days of a week. You can select one or more days in a week. The weekly recurrence continues for the duration and time, as configured in the Date and Time section.
    - **Monthly**—The task is executed once every month and continues as configured in the Date and Time section. For the monthly option, you can set the exact date on which the task is executed every month. You can also specify the exact day of a month on which the task is executed every month. Make sure that when you specify a date or a day, that particular day, or date is covered within the duration, specified in the Date and Time section.
4. Click **Save**.

### Notes

- After a task is created, you can view it on the Schedule page. Click the  icon to view task details like task name, task type, number of impacted printers, and schedule details. The icon appears for recurring tasks only.
- To edit a scheduled task, click the task name, and then you can edit the task details on the Edit Scheduled Task page. After editing the details, click **Save**.
- On the Schedule page, you can also view details such as the frequency of the task and the last run time.
- On the Schedule page, you can filter tasks by type, submitter, and organization.
- To delete a task, under the Actions column, click  > **Yes**.

# 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 31](#).

- 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 378](#).
  - **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 382](#).
  - **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 377](#).
    - **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 384](#). 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 391](#).
  - **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 390](#).

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 391](#).
- **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 368](#).
- For more information on assigning the quotas, see [Assigning quotas on page 369](#).

- **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 371](#).

- **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 397](#).

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 378](#).
- 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 [Configuring organizational settings on page 363](#).

## 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 363](#).

1. From the Print Management web portal, click **Administration > Quota Definitions**.
2. Do any of the following:

### Set a fixed quota

1. Click **Create**, and then type a unique quota definition name.
2. In the Specify quota limits menu, select **Same limits for each month**.
3. 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.

4. Click **Create Quota Definition**.

### Set a custom quota for each month

1. Click **Create**, and then type a unique quota name.
2. In the Specify quota limits menu, select **Custom limits for each month**.
3. Select one or more months.
4. 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.

5. Click **Set Quota Limits**.
6. 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.

1. Click  beside Default Quota.
2. 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 363](#).

**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.

## Assigning 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.

1. From the Print Management web portal, click **Administration** > **Quota Assignments** .
2. From the Cost Center tab, click **Assign Quota**.
3. Type the cost center name.

**Note:** The cost center name must match a cost center found in Account Management for the organization.

4. Select a quota definition.
5. 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.

1. From the Print Management web portal, click **Administration > Quota Assignments**.
2. From the Department tab, click **Assign Quota**.
3. Type the department name.

**Note:** The cost center name must match a cost center found in Account Management for the organization.

4. Select a quota definition.
5. Click **Assign Quota**.

## Assign a user quota

1. From the Print Management web portal, click **Administration > Quota Assignments**.
2. From the Personal tab, click **Assign Quota**.
3. Type the user email address.
4. Select a quota definition.
5. 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	●	146	56	Default Quota	Default
lpadmin@test.onelk.co	●	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 363](#).

1. From the Print Management portal, click **Administration > Print Policies**.

**Note:** You can modify the Default Print Policy by clicking . For more information, see [Creating and assigning print policies on page 371](#).

2. Do any of the following:
  - **Create a print policy**

1. Click **Create**.

**Note:** If there is no existing print policy, then click **Create Print Policy**.

2. In the Policy name field, type the name of the policy.
3. 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.

4. Click **Create Policy**.
- **Duplicate a print policy**
    1. Select an existing policy,
    2. Click **Duplicate**.
    3. Type a unique name for the policy.
    4. Click **Create Policy**.
  - **Delete a print policy**
    1. Select an existing policy.
    2. Click **Delete**.
    3. 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 363](#).

### 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, or CPM Advanced Hybrid Storage, 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

1. Click **Upload File**.
2. Drag one or more files, or click **Choose Files**, and then browse to them.
3. Click **Done**.

## Delete print jobs

1. Select one or more jobs.
2. Click **Delete > Delete Print Jobs**.

## Set print settings for a specific print job

1. Click a print job.
2. If necessary, from the General section, type a description for the print job.
3. 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.
4. Click **Save Changes**.

## Set default print settings for all incoming print jobs

1. Click **Set Default Print Settings**.
2. 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.
3. 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

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 363](#).

### 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. Do either of the following:

## Add delegates

1. Click **Add**.
2. Select a user.
3. 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.
4. Click **Add Delegate**.

## Remove delegates

1. Select one or more delegates.
2. Click **Remove**.

**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 363](#).

## 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:**
  1. From the Select package type menu, select **Cloud Print Management**.
  2. Click **Download Client**.
- **For the Hybrid Print Management package type:**
  1. From the Select package type menu, select **Hybrid Print Management**.
  2. Click **Download Client**.
- **For the Direct Print package type:**
  1. From the Select package type menu, select **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.
  4. Click **Download Client**.
- **For the custom package type:**
  1. From the Select package type menu, select **Custom Package**.
  2. Click **Create Package**.
  3. From the Global Configuration Settings section, specify whether to show the print submission status notification.
  4. If you have a Lexmark Cloud Print Management environment, then do the following:
    - a. From the Cloud Print Management section, select **Enable Cloud Print Management**.
    - b. 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.

5. If you have a Lexmark Hybrid Print Management environment, then do the following:

- a. From the Hybrid Print Management section, select **Enable Hybrid Print Management**.
- b. 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.

- c. Select the option whether to let users change the print settings when releasing jobs at the printer.
6. If you have a Lexmark Direct Print environment, then do the following:
    - a. From the Direct Print section, select **Enable 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.
  7. From the Print Driver Type section, select a print driver to include in the package.
  8. From the Set Default Printer section, select which environment to use by default.
  9. Click **Create**.
  10. 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**.

## 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.Idc** for the Cloud Print Management print queue
- **LPMServerlessPrintQueueConfiguration.Idc** 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>
```

## 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 363](#).

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 385](#).

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 386](#).

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 363](#).
- **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 393](#).
- **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 391](#).


# 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 393](#).

## 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 390](#).

### Notes

- Make sure that automatic print release is enabled. For more information, see [Configuring organizational settings on page 363](#).
- 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 363](#).

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 279](#).
- 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 363](#).

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 363](#).

## 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 39](#).

### 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 53](#).
- Users can use Cloud Print Release using a PIN or secure login code only. For more information on secure login code, see [Configuring printer login on page 279](#).
- 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 374](#).

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 340](#)

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 329](#).

## 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 374](#).

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 374](#).
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" group.

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.

## 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 363](#).
- 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" group. 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 363](#).

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 327](#).

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 327](#).

#### 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 327](#).

### 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 327](#).

### 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**.

## 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 39](#).

## 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 31](#).

- 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 402](#).
- 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**
    1. From the Drive name menu, select the destination Google Drive.
    2. 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.

1. 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.

2. Select the folder, and then click **Choose Folder** to select the destination OneDrive folder.

- **SharePoint**

1. From the Site or library name menu, select the destination SharePoint site or library.
2. From the Scan location folder section, click **Choose Folder > Select the folder > Choose Folder** to select the destination SharePoint folder.

- **Box**

1. From the Scan location folder section, click **Choose Folder** to browse to the scan destination folder.
2. Select the folder, and then click **Choose Folder** to select the destination Box folder.

**Note:** Only personal scan destinations are supported in Box.

- **Dropbox**

1. From the Scan location folder section, click **Choose Folder** to browse for the scan destination folder

2. 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 348](#).

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:

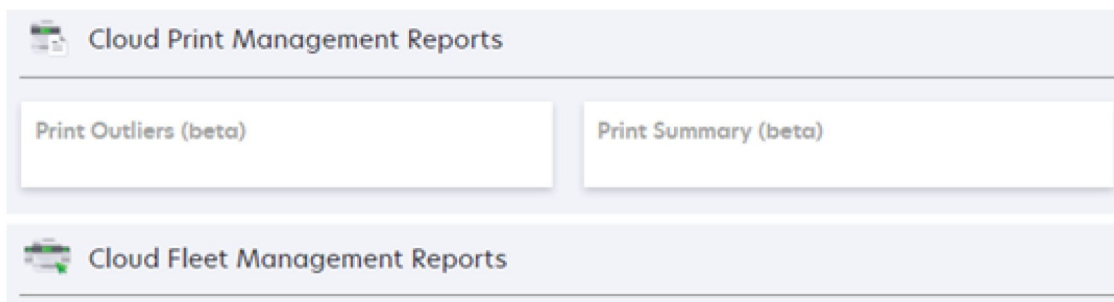
- From the dashboard, click the **Analytics** card.

**Note:** If the card is not available, then add the card. For more information, see [Managing the dashboard on page 31](#).

- From your current web portal, click  on the upper-right corner of the page, and then click **Analytics**.

### Notes

- To access **Analytics 2.0** from the Analytics web portal, click **Check out the new Beta Analytics 2.0 here**. On the Analytics 2.0 page, you can view the reports based on your user role. The reports are categorized into Cloud Print Management Reports and Cloud Fleet Management Reports.
- If you have partner administrator rights, then you have to select the organization to access **Analytics 2.0**.



## 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
<p><b>Organization</b></p>	<p><b>Organization Overview</b>—Shows an overview of the printer activities of the organization over the specified date range.</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> </ul>

Report Level	Report type	Report items
<p><b>Department</b></p>	<p><b>Department Overview</b>—Shows an overview of the printer activities of the selected department over the specified date range.</p>	<ul style="list-style-type: none"> <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> </ul> </li> </ul>



Report Level	Report type	Report items
<p><b>Cost Center</b></p>	<p><b>Cost Center Overview</b>—Shows an overview of the printer activities of the selected cost center over the specified date range.</p>	<ul style="list-style-type: none"> <li>◦ <b>Document Type (Pages)</b>—A graph that shows the number of pages submitted per job type, such as text or image.</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>
<p><b>Full Data Export</b></p>	<p><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.</p>	

Report Level	Report type	Report items
<p><b>Full Data Export</b></p>	<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 PRINTJOBNAMES, 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 483</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> </ul>

Report Level	Report type	Report items
<p><b>User</b></p>	<p><b>User Overview</b>—Shows an overview of the printer activities of the selected user over the specified date range.</p>	<ul style="list-style-type: none"> <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> </ul> </li> </ul>

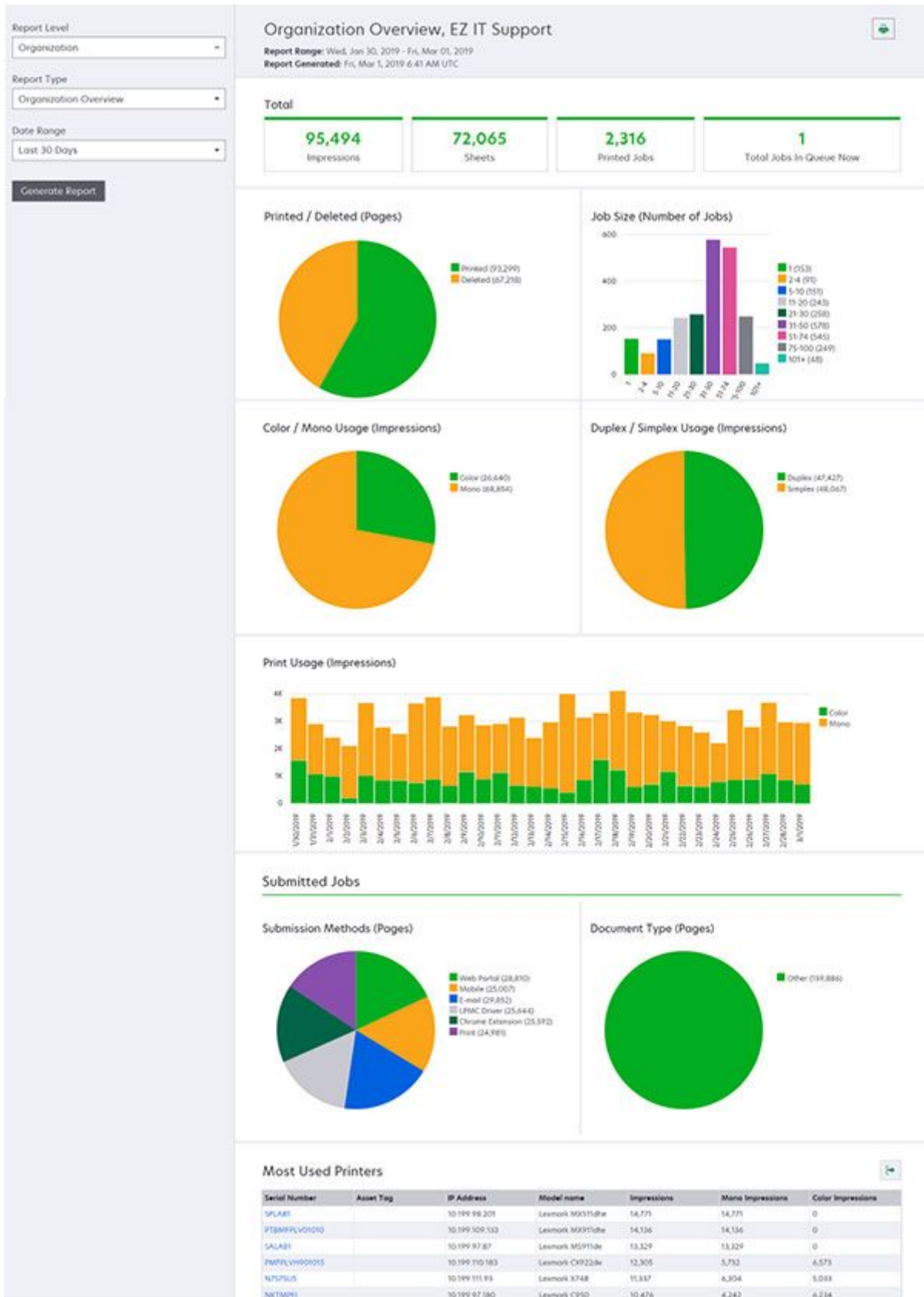
		<ul style="list-style-type: none"><li>◦ <b>Document Type (Pages)</b> —A graph that shows the number of pages submitted per job type, such as text or image.</li><li>• <b>Most Used Printers</b> —A table that lists the printers with the highest usage. The list shows the last known IP address and model name 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>
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Report Level	Report type	Report items
<p><b>Client Version Export</b></p>	<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> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <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> </div>	<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> </ul>

Report Level	Report type	Report items
		<ul style="list-style-type: none"> <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> </ul> </li> </ul>

Report Level	Report type	Report items
		<ul style="list-style-type: none"> <li>◦ <b>Document Type (Pages)</b> —A graph that shows the number of pages submitted per job type, such as text or image.</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  
User

User  
Scott Summers [scott.summers@test.onebk...]

Report Type  
User Overview

Date Range  
Last 30 Days

Generate Report

### User Overview, EZ IT Support

User Name: Scott Summers, E-mail: scott.summers@test.onebk.co  
 Report Range: Wed, Jan 30, 2019 - Fri, Mar 01, 2019  
 Report Generated: Fri, Mar 1, 2019 11:04 AM UTC

**3,311**  
Impressions

**2,559**  
Sheets

**83**  
Printed Jobs

**0**  
Total Jobs In Queue Now

#### Printed / Deleted (Pages)

Printed (2,254)  
Deleted (2,295)

#### Job Size (Number of Jobs)

1 (1)  
2-4 (5)  
5-10 (8)  
11-20 (7)  
21-30 (7)  
31-50 (20)  
51-74 (23)  
75-100 (7)  
101+ (0)

#### Color / Mono Usage (Impressions)

Color (923)  
Mono (2,386)

#### Duplex / Simplex Usage (Impressions)

Duplex (1,518)  
Simplex (1,791)

#### Print Usage (Impressions)

Color  
Mono

#### Submitted Jobs

#### Submission Methods (Pages)

Web Portal (1,207)  
Mobile (874)  
E-mail (754)  
LPRMC Driver (1,122)  
Chrome Extension (799)  
Print (1,050)

#### Document Type (Pages)

Other (3,548)

#### Most Used Printers

Serial Number	Asset Tag	IP Address	Model name	Impressions	Mono Impressions	Color Impressions
UW6E2J		10.199.111.23	Lexmark X925	378	276	302
EMFPLVW01015		10.199.110.183	Lexmark CX922de	358	290	268
N7576J5		10.199.111.93	Lexmark X748	322	330	192
N09GLTU		10.199.108.21	Lexmark CX90de	411	355	56
SPLA81		10.199.98.201	Lexmark MX310de	379	379	0

Report Level	Report type	Report items
<p><b>Printer</b></p>	<p><b>Printer Overview</b>—Shows an overview of the Lexmark Cloud Services tracked usage of the selected printer, based on the printer serial number.</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>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.</li> </ul>

Report Level	Report type	Report items
		<div data-bbox="1123 215 1410 450" style="background-color: #f0f0f0; padding: 5px;"> <p><b>Note:</b> This report appears only for color printers.</p> </div> <ul style="list-style-type: none"> <li data-bbox="1094 483 1410 815"> <p>• <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.</p> </li> <li data-bbox="1094 819 1410 1016"> <p>• <b>Print Usage (Impressions)</b>—A graph that shows the daily print usage over the specified date range.</p> </li> <li data-bbox="1094 1021 1410 1189"> <p>• <b>Scan Usage (Pages)</b>—A graph that shows the total number of pages scanned per job type.</p> </li> </ul> <div data-bbox="1123 1218 1410 1487" style="background-color: #f0f0f0; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> This report appears only if the selected printer is an MFP.</p> </div> <ul style="list-style-type: none"> <li data-bbox="1094 1525 1410 1856"> <p>• <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.</p> </li> <li data-bbox="1094 1861 1410 1989"> <p>• <b>Top Cost Centers</b>—A table that lists the cost centers with the highest usage.</p> </li> </ul>

Report Level	Report type	Report items
		<ul style="list-style-type: none"> <li>• <b>Top Departments</b>—A table that lists the departments with the highest usage.</li> </ul>
	<p><b>Print Job History</b>—Shows the print jobs of the selected printer.</p>	<p>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.</p>
	<p><b>Printer Supplies History</b>—Shows the printer supplies used.</p>	<p>A table that lists the supplies used in the selected printer while it was enrolled in Lexmark Cloud Services.</p>

Report Level	Report type	Report items
<p><b>Printer</b></p>	<p><b>Printer Hardware Statistics</b>—Shows the lifetime page counter information and the toner supply levels of the selected printer.</p>	<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.</li> </ul> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 10px; margin-top: 20px;"> <p><b>Note:</b> This report appears only in some printer models.</p> </div>

Report Level	Report type	Report items
		<ul style="list-style-type: none"><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  
Printer

Printer  
4021013000110

Report Type  
Printer Overview

Date Range  
Last 30 Days

[Generate Report](#)

### Printer Overview, EZ IT Support

Serial number: 4021013000110  
Report Range: Sun, Feb 17, 2019 - Tue, Mar 19, 2019  
Report Generated: Tue, Mar 19, 2019 6:08 AM UTC

**15,307**  
Impressions

**11,005**  
Sheets

**331**  
Printed Jobs

**26**  
Users

#### Job Size (Number of Jobs)

Job Size	Count
1 (10)	15
2-4 (7)	10
5-10 (10)	10
11-20 (20)	15
21-30 (30)	20
31-50 (92)	92
51-74 (89)	89
75-100 (39)	39
101+ (10)	10

#### Duplex / Simplex Usage (Impressions)

Usage Type	Count
Duplex	8,703
Simplex	6,604

#### Print Usage (Impressions)

#### Top Users

User	Email Address	Impressions	Mono Impressions	Color Impressions
Miles Morales	miles.morales@ezit.onetel.co	1,115	1,115	0
Mark McCoy	mark.mccoy@ezit.onetel.co	958	958	0
Vic Stone	vic.stone@ezit.onetel.co	846	846	0
Barbara Gordon	barbara.gordon@ezit.onetel.co	791	791	0
Jon Gray	jon.gray@ezit.onetel.co	767	767	0
Lucas Cage	lucas.cage@ezit.onetel.co	726	726	0
Ray Palmer	ray.palmer@ezit.onetel.co	683	683	0
Victor Stone	victor.stone@ezit.onetel.co	652	652	0
Arthur Curry	arthur.curry@ezit.onetel.co	635	635	0
Steve Rogers	steve.rogers@ezit.onetel.co	635	635	0

#### Top Cost Centers

Cost Center	Impressions	Mono Impressions	Color Impressions
No data available			

#### Top Departments

Department	Impressions	Mono Impressions	Color Impressions
IT	3,193	3,193	0
Sales	2,934	2,934	0
Product	2,813	2,813	0
Research	2,425	2,425	0
Marketing	1,888	1,888	0
Legal	1,854	1,854	0

#### Top Groups

Group	Impressions	Mono Impressions	Color Impressions
No data available			

Report Level	Report type	Report items
<p><b>Organization, Cost Center, Department</b></p>	<p><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.</p>	<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> </ul>



Report Level	Report type	Report items
		<ul style="list-style-type: none"> <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> </ul> </li> </ul>

Report Level	Report type	Report items
		<ul style="list-style-type: none"> <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> <ul style="list-style-type: none"> <li>• <b>Color Usage</b></li> </ul>

Report Level	Report type	Report items
		<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>

Report Level	Report type	Report items
<p><b>Organization, Cost Center, Department</b></p>	<p><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.</p>	<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

Organization

Report Type

Usage Analysis

Date Range

Last 30 Days

Generate Report

### Usage Analysis, EZ IT Support

Report Range: Sun, Feb 03, 2019 - Tue, Mar 05, 2019  
Report Generated: Tue, Mar 5, 2019 7:00 AM UTC

**26**

Number of Active Users

**8**

Number of Active Printers

**96,793**

Impressions

**72,847**

Sheets

**2,364**

Number of Printed Jobs

**Printed / Deleted (Pages)**

Category	Count
Printed	94,223
Deleted	57,846

**Job Size (Number of Jobs)**

Job Size	Count
1	153
2-4	95
5-10	158
11-20	249
21-30	283
31-50	368
51-74	560
75-100	249
101+	49

**Submission Methods (Jobs)**

Method	Count
Web Portal	704
Mobile	501
E-mail	280
LPMAC Driver	632
Chrome Extension	647
Print	829

**Submission Methods (Pages)**

Method	Count
Web Portal	28,766
Mobile	25,647
E-mail	29,359
LPMAC Driver	25,562
Chrome Extension	27,020
Print	25,352

**Duplex Usage**

**Duplex / Simplex Printers**

Printer Type	Count
Duplex	0
Simplex	0

**Impressions on Duplex / Simplex Printers**

Printer Type	Count
Duplex	96,793
Simplex	0

**Duplex / Simplex Usage (Impressions)**

Printer Type	Count
Duplex	48,496
Simplex	48,297

**Potential Savings**

Duplex printing could have provided a

23,836

sheet savings

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.	<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.  <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.

Report Level	Report type	Report items
<p><b>Organization, Cost Center, Department, User</b></p>	<p><b>Printer Activity Detail</b>— Shows a detailed Printer Activity report. The list shows all the jobs and more information about each job.</p> <p>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 &lt;x.y.z.y&gt;(Direct), where &lt;x.y.z.y&gt; 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
<p><b>Organization, Cost Center, Department</b></p>	<p><b>User Usage</b>—Shows the print usage of all the users in the organization, department, or cost center.</p>	<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>



Report Level	Report type	Report items
<p><b>Organization</b></p>	<p><b>Customer Usage</b>—Shows the print usage of all the child organizations.</p> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p><b>Note:</b> This report type is available only to partner administrators.</p> </div>	<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>

Report Level	Report type	Report items
<p><b>Organization</b></p>	<p><b>Department Usage</b>— Shows the print usage per department.</p>	<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>

Report Level	Report type	Report items
<p><b>Organization</b></p>	<p><b>Cost Center Usage</b>— Shows the print usage per cost center.</p>	<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>
<p><b>Organization</b></p>	<p><b>Customer Usage Detail</b>— Shows a detailed Customer Usage report containing the print and scan activities.</p> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p><b>Note:</b> This report type is available only to partner administrators.</p> </div>	<p><b>Print Activity</b>—A table that lists all child organizations, and shows the total number of impressions printed per child organization.</p> <p><b>Scan Activity</b>—A table that lists all child organizations, and shows the total number of scanned pages per child organization.</p>
<p><b>Organization</b></p>	<p><b>Department Usage Detail</b>— Shows a detailed Department Usage report containing the print and scan activities.</p>	<p><b>Print Activity</b>—A table that lists all the departments in the organization, and shows the total number of impressions printed per department.</p> <p><b>Scan Activity</b>—A table that lists all the departments in the organization, and shows the total number of scanned pages per department.</p>

Report Level	Report type	Report items
<p><b>Organization</b></p>	<p><b>Cost Center Usage Detail</b> —Shows a detailed Cost Center Usage report containing the print and scan activities.</p>	<p><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.</p> <p><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.</p>
<p><b>Organization</b></p>	<p><b>Printer Hardware Detail</b>—Shows the hardware statistics for all the printers in the organization.</p>	<p>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.</p>
<p><b>Organization</b></p>	<p><b>Customer Printer Hardware Detail</b>—Shows the hardware statistics for all the printers in all child organizations.</p> <div style="background-color: #f0f0f0; padding: 10px; margin-top: 10px;"> <p><b>Note:</b> This report is available only for partner administrators when the partner organization is selected.</p> </div>	<p>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.</p>
<p><b>Organization</b></p>	<p><b>Users</b></p>	<p>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.</p>

Report Level	Report type	Report items
<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:
  1. Type the user, cost center, department name, or printer serial number.
  2. Select a report type.
  3. 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. The maximum range is a one-year window within the prior two years.
- 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.
- If there are users not associated with any departments, then they are grouped under alias. The group is termed as No department associated.
- The reports are now categorized into Cloud Print Management Reports and Cloud Fleet Management Reports.

4. From the report menu, select **Print Outliers (beta)**.

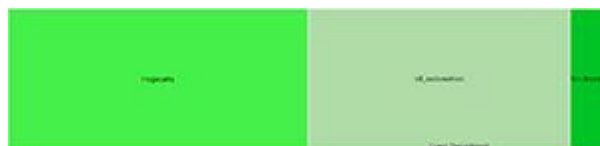
## Key performance indicators report



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



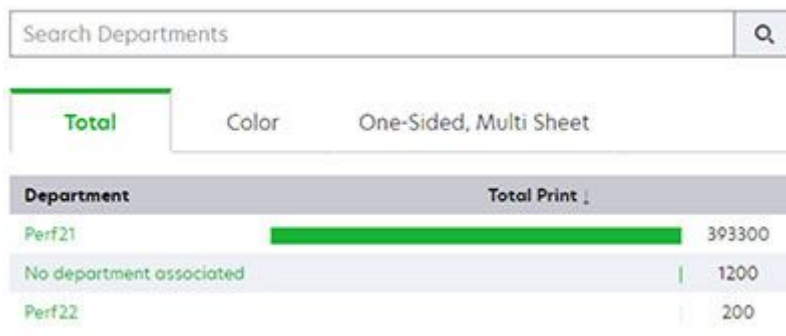
The tree map shows the distribution of print impressions across departments under a particular organization or child organization. On clicking each of the departments in the tree map report, you can get the outlier details of that particular department. In the department outlier, on clicking each of 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.

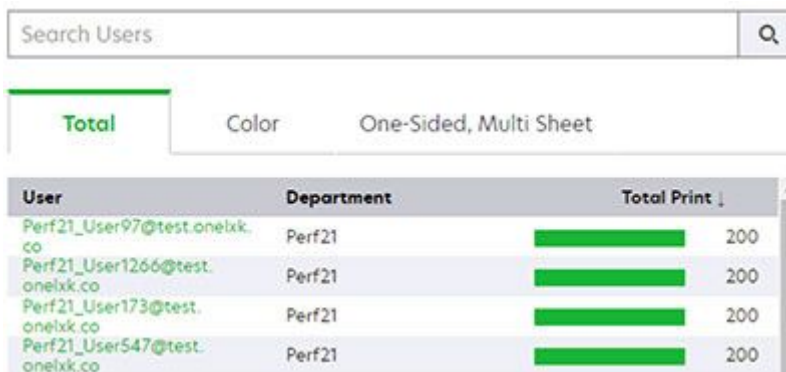
## Top departments in an organization



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. The maximum range is a one-year window within the prior two years.
- If there are users not associated with any departments, then they are grouped under alias. The group is termed as No department associated.
- The reports are now categorized into Cloud Print Management Reports and Cloud Fleet Management Reports.

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.

## Using the filters for key performance indicators

<b>Impressions</b> 8,874,182 Side of a sheet of paper that contains toner	<b>Sheets</b> 4,465,055 Physical piece of paper that may contain one or two impressions	<b>Printed Jobs</b> 114,878 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

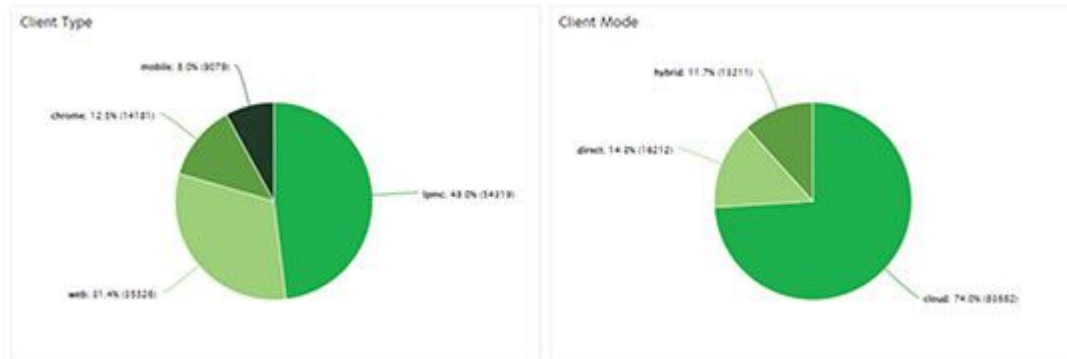


The key performance indicators for print usage include the following:

- **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 374](#).

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 186](#).

### 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
-----------	--------	----------	---------	---------

## Translation Assistant

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 31](#).

- 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 [Understanding Translation Assistant on page 449](#).

4. Select the source language of the source document.

**Note:** Translation Assistant detects the source language automatically by default. For more information, see [Understanding Translation Assistant on page 449](#).

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**.

## 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.


### Set the default translation quota for users

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. Click **Edit** beside Default Quota.
4. 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.

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 Custom Quotas tab, click **Create**.
4. From the Type list, select **Personal**.
5. 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.


6. 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.

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 Custom Quotas tab, click **Create**.
4. From the Type list, select **Cost center** or **Department**.
5. Type the name of the cost center or department, and then set its translation quota.
6. 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" group .

## 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 31](#).
- 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 PIIs 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.

#### Notes

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.

### Set the default quota for users

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. Click **Edit** beside Default Quota.
4. From the Edit Default User Quota window, set the default quota for users, and then click **Save Changes**.

### 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 user's custom quota overrides the default quota of the organization, cost center, or department.

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 Custom Quotas tab, click **Create**.
4. From the Type menu, select **Personal**.
5. 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.

6. 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.

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 Custom Quotas tab, click **Create**.
4. From the Type menu, select **Cost center** or **Department**.
5. Type the name of the cost center or department, and then set the quota for each of the available solutions.
6. 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 31](#).

## 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 31](#).

## 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 31](#).

# Troubleshooting

## Account Management troubleshooting

### Cannot access the Account Management web portal

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

Make sure that the badge ID in the Account Management web portal is typed correctly  
For more information, see [Managing badges on page 281](#).

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

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

Make sure that the printer is in ready state  
For more information, see [Deployment readiness checklist on page 36](#).

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 329](#).

### 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/PortsSettings** > **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	SE Menus
eSF version 3.0 and 4.0	Device Management	Remote Management
eSF version 3.0 and 4.0	Device Management	Firmware Updates
eSF version 4.0	Device Management	App Configurations

**Note:** For more information on identifying the printer eSF version, see [Viewing the Embedded Solutions Framework \(eSF\) version on page 54](#).

- 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 299](#).

## 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.
    4. 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
  - prodwesteucloudk8s54.blob.core.windows.net
  - prodwesteucloudk8s199.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 setting
eSF versions 3.0 and 4.0	Administrative Menus	Service Engineer Menus Remotely
eSF versions 3.0 and 4.0	Device Management	Remote Management
eSF versions 3.0 and 4.0	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 54](#).

- 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**.

## Troubleshooting

- 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	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
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
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**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	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	prodllexcloudk8s239.blob.core.windows.net
CPM File Storage	CPM only	prodllexcloudk8s19.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

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

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

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**

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**

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)**

Try one or more of the following:

- 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

Uninstall the previous versions of the Lexmark™ Universal Print Driver Contact your administrator

### Cannot access the Print Management web portal

Make sure that the user roles are assigned appropriately  
For more information, contact your organization administrator.  
Contact the Lexmark Customer Support Center

### Printing error

Make sure that the user exists in the Account Management web portal  
For more information, see [Managing users on page 243](#).

Make sure that the Print Release Management User role is granted to the user  
For more information, see [Assigning organization roles on page 241](#).

Make sure that the Lexmark Print Management Client is configured correctly  
For more information, see [Downloading the Lexmark Print Management Client on page 378](#).

### Some settings are unavailable on the Print Management web portal


Make sure that you have sufficient permission.

For more information on assigning roles, see "User accounts" chapter.

### Cannot send e-mail to the print queue server

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" chapter.

### 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**

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**

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**

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**

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**

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)

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

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 "User accounts" chapter.

### Cannot save Scan Management settings

Make sure that the user roles are assigned correctly

For more information on assigning roles, see "Account Management" chapter.  
Refresh your web browser Contact the Lexmark Customer Support Center

### **Cannot communicate with Lexmark Cloud Services**

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 402](#)  
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" chapter.  
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**

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**

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**

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**

Make sure that the user is not deleted Use the user name when searching

### **Cannot remove departments and cost centers 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**

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

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

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.

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

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

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

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

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":
},
{
  "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

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",
"coverageTierBusinessSheetCount": { "type": ["null",
"coverageTierGraphicsSideCount": { "type": ["null",
"coverageTierGraphicsSheetCount": { "type": ["null",
"coverageTierHighlightSideCount": { "type": ["null",
"coverageTierHighlightSheetCount": { "type": ["null",
"paperCounts": {
  "type": "array",
  "items": {
    "type": "object",
    "properties": {
      "paperSheetPickedCount": { "type": ["null",
      "paperSheetSafeCount": { "type": ["null",
      "paperSideColorPickedCount": { "type": ["null",
      "paperSideColorSafeCount": { "type": ["null",
      "paperSideMonoPickedCount": { "type": ["null",
      "paperSideMonoSafeCount": { "type": ["null",
      "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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August 2024

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