



# **Mobile Print**

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## **Integration Guide for the MobileIron Platform**

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# Change history

## August 2018

- Initial document release

# Overview

Lexmark™ Mobile Print (LMP) lets you send documents and images directly to network-connected Lexmark printers and servers from your mobile device. It also lets you scan documents, and then save them to your mobile device.

Use MobileIron Mobile Device Management (MDM) platform to manage the use, configuration, and policy of Lexmark Mobile Print in your organization.

This document provides instructions on how to integrate and configure Lexmark Mobile Print for the MobileIron platform.

## System requirements

For mobile devices with the Android™ platform:

- Lexmark Mobile Print v2.6 or later

**Notes:**

- Wrap the apk file of the application using the wrapping tool of the MobileIron platform. For more information, see [“Wrapping Lexmark Mobile Print for Android” on page 5](#).
- To obtain the apk file, contact your Lexmark Representative.

- Android 5.0 or later

For mobile devices with iOS operating system:

- Lexmark Mobile Print for ME v2.6 or later

**Note:** Download the application from the App Store<sup>SM</sup> online store.

- iOS 10.0 or later

# Integrating the application

Before you begin, make sure that you have an account in the administrator portal and the customer support website of the MobileIron platform.

## Wrapping Lexmark Mobile Print for Android

- 1 From your browser, go to <https://help.mobileiron.com>.
- 2 Click **Wrapped Apps** > **Create New Wrapped Apps**.
- 3 Read, and then accept the Wrapping Application License Agreement.
- 4 Click **Choose File**, and then locate the Lexmark Mobile Print apk file.
- 5 Click **Next**, and then select the wrapper version or wrapper mode.
- 6 Click **Wrap**.  
**Note:** Wrapping the application may take a few minutes.
- 7 Click **Download Wrapped App**.

## Enabling AppConnect

**Note:** Before you begin, make sure that your organization has an AppConnect license. For more information, contact your MobileIron representative.

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Setting**, and then expand **Additional Products**.
- 3 Click **Licensed Products**, and then enable **AppConnect for Third-party and In-house Apps** and **AppTunnel for Third-party and In-house Apps**.  
**Note:** Lexmark Mobile Print does not support AppTunnel.
- 4 Click **Save**.

## Adding the LMP application to the MobileIron platform

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Apps** > **Add+**.
- 3 Do either of the following:

### For LMP for iOS

- a Click **iTunes**.
- b Search for Lexmark Mobile Print for ME.

## For LMP for Android

- a Click **In-House**.
  - b Browse to the wrapped apk file. For more information on wrapping the apk file, see [“Wrapping Lexmark Mobile Print for Android” on page 5](#).
- 4 Click **Next**, and then provide a description.
  - 5 Click **Next**, and then enable APPS@WORK Catalog options for your organization.
  - 6 Click **Next**, and then manage the application settings.
  - 7 Click **Finish**.

## Registering mobile devices

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Do either of the following:

### For a single device

- a Click **Device and Users > Add > Single Device**.
- b Provide the device information, and then click **Register > OK**.

### For multiple devices

- a Click **Device and Users > Add > Multiple Devices**.
- b Browse to the CSV file that contains the device information, and then click **Import File**.
- c Click **Apply > Close**.

## Creating labels

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Device and Users > Labels > Add Label**.
- 3 Provide a unique label name and description.
- 4 From the Type section, select **Filter**.
- 5 From the Criteria section, depending on your label configuration, click **All** or **Any**.
- 6 In the Field drop-down menu, select a label parameter.
- 7 In the Operator drop-down menu, select an operator.
- 8 In the Value field, depending on the label parameter, type or select a value.
- 9 Click **Save**.

## Assigning labels to the LMP application

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Apps**.
- 3 Select **Lexmark Print** or **Lexmark Print for ME**.
- 4 Click **Actions > Apply To Labels**.
- 5 Select one or more labels, and then click **Apply**.

## Assigning labels to a mobile device

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Devices & Users**.
- 3 Select a mobile device.
- 4 Click **Actions > Apply to Label**.
- 5 Select one or more labels, and then click **Apply**.

# Configuring the application

## Adding an AppConnect global policy

The global policy configures the security settings for all the applications added in the MobileIron platform.

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Policies & Configs > Policies > Add New > AppConnect**.
- 3 In the Name field, type the policy name.
- 4 From the AppConnect Passcode section, configure the passcode.  
**Note:** The AppConnect passcode is different from the device password.
- 5 From the “AppConnect Security Controls on Device” section, set a value for “Device Out of Contact.”  
**Note:** If the mobile device is not used within the specified number of days, then AppConnect deletes the data on the device.
- 6 From the App Authorization section, configure the App Check-in Interval value in minutes.  
**Notes:**
  - The App Check-in Interval is independent from the MDM check-in timer.
  - You cannot force the application to check in before the interval expiration.
  - We recommend setting the value to 60 minutes.
- 7 From the Security Policies section, enable the features that are allowed for use in your organization.
- 8 Click **Save**.

## Updating the AppConnect global policy

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Policies & Configs > Policies**.
- 3 Click the policy to edit, and then click **Edit**.
- 4 Update the settings, and then click **Save**.

## Setting up the AppConnect container policy

The AppConnect container policy specifies the data loss protection policies for the application. If the AppConnect global policy authorizes applications without a container policy, then the global policy handles the data loss protection.

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Policies & Configs**.
- 3 Click **Lexmark Print for ME** or **Lexmark Print > Edit**.

**Note:** Make sure that you click the LMP application with the APPPOLICY configuration type.



- 4 From the SECURITY POLICIES section, enable the features that are allowed for use in your organization.
- 5 Click **Save**.

## Setting up the application-specific configurations

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Policies & Configs**.
- 3 Click **Lexmark Print for ME** or **Lexmark Print > Edit**.
  - Note:** Make sure that you click the LMP application with the APPCONFIG configuration type.
- 4 From the App-specific Configurations section, click **Add+**, and then type the key and value. For more information, see [“Understanding the application-specific configurations” on page 9](#).
- 5 Click **Save**.

## Understanding the application-specific configurations

Key	Value	Description
<b>type-name</b> where <b>name</b> is the provider type name	Provider type <ul style="list-style-type: none"> <li>• <b>printer</b></li> <li>• <b>server</b></li> <li>• <b>server-premise</b></li> </ul>	In the Key field, assign a name for the provider type, and then in the Value field, type the value for the provider type. For example, type <b>type-LexmarkColorMFP</b> in the Key field, and then type <b>printer</b> in the Value field.
<b>address-name</b> where <b>name</b> is the provider type name	Network address	In the Key field, assign a name for the printer or server, and then in the Value field, type the network address. For example, type <b>address-LexmarkColorMFP</b> in the Key field, and then type <b>255.255.255.255</b> in the Value field.  <b>Note:</b> Make sure that the name used in <b>address-name</b> is the same with the name used in <b>type-name</b> .
<b>auto-discover-name</b> where <b>name</b> is the provider type name	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to discover the printer automatically after importing the configuration file. Make sure that the value for <b>type-name</b> is set to <b>printer</b> .  <b>Note:</b> Make sure that the name used in <b>auto-discover-name</b> is the same with the name used in <b>type-name</b> .
<b>add-providers</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow adding printers or servers from the application.  <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .

Key	Value	Description
<b>delete-providers</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow deleting printers or servers from the application. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>supports-clipboard</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow printing from the clipboard. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>supports-photos</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow printing photos. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>supports-web</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow printing web pages from the application. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>supports-jobs</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow access to job queues. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>supports-manual-add</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow adding printers manually. Make sure that <b>&lt;add-providers&gt;</b> is set to <b>true</b> . <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>supports-qrcode</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow adding printers by using a QR code. Make sure that <b>&lt;add-providers&gt;</b> is set to <b>true</b> . <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>supports-network-search</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow adding printers by searching the network. Make sure that <b>&lt;add-providers&gt;</b> is set to <b>true</b> . <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>supports-nfc</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow printing by using NFC. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>true</b> .
<b>easy-saas</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to enable <b>Access to Lexmark Print Management Cloud</b> . This setting automatically adds <b>lsp.lexmark.com/lexmark</b> to the list of LPM servers. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>false</b> .

Key	Value	Description
<b>quick-print-release</b>	<ul style="list-style-type: none"> <li>• <b>true</b></li> <li>• <b>false</b></li> </ul>	Type <b>true</b> to allow releasing of LPM On-Premises print jobs using Quick Print. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>false</b> .
<b>quick-print-release-type</b>	<ul style="list-style-type: none"> <li>• <b>QR</b></li> <li>• <b>IP</b></li> </ul>	Type <b>QR</b> to release the print job using the QR code. Type <b>IP</b> to release the print job using the printer IP address. Make sure that <b>quick-print-release</b> is set to <b>true</b> . <b>Note:</b> To make both options available, leave the value blank.
<b>direct-printing-port</b>	Port number	Type the port number to use for printing directly from the mobile device. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>631</b> .
<b>secure-print-release-port</b>	Port number	Type the port number to use for secure connection with the servers. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>443</b> .
<b>web-port</b>	Port number	Type the port number to use for web communications. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>80</b> .
<b>printer-capabilities-data-port</b>	Port number	Type the port number to use for sending data to the printer. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>9100</b> .
<b>premise-server-ssl-port</b>	Port number	Type the port number to use for releasing print jobs in the servers. <b>Note:</b> If the key is not configured, then the default value is used. The default value is <b>9743</b> .

Key	Value	Description
<b>import-configList</b>	<ul style="list-style-type: none"> <li>• <b>use_config</b></li> <li>• <b>merge</b></li> <li>• <b>reset_all</b></li> </ul>	<p>Define how the providers in the configuration file are managed when importing.</p> <p>Type <b>use_config</b> to do the following:</p> <ul style="list-style-type: none"> <li>• Delete the printers and servers from the application that are not in the configuration file.</li> <li>• Add the printers and servers that are in the configuration file and not in the application.</li> <li>• Update the nicknames of the printers and servers that are in the configuration file and in the application.</li> </ul> <p>Type <b>merge</b> to do the following:</p> <ul style="list-style-type: none"> <li>• Keep the existing printers and servers from the application.</li> <li>• Add the printers and servers that are in the configuration file, but are not in the application.</li> <li>• Update the nicknames of the printers and servers that are in the configuration file and in the application.</li> </ul> <p>Type <b>reset_all</b> to do the following:</p> <ul style="list-style-type: none"> <li>• Delete all the printers and servers that are in the application.</li> <li>• Add the printers and servers that are in the configuration file.</li> </ul>

## Understanding the required ports

Port Number	Use
80*	For standard HTTP calls, such as opening a web site from the application
443*	For printing
631†	For secure connection with servers or printers
9100†	For querying the capabilities of the printer
9743†	For releasing documents that are stored in servers

\* The mobile device operating system handles the port.  
 † The LMP application uses the port.

## Assigning labels to a configuration or policy

- 1 From your browser, open the MobileIron Core administrator portal.
- 2 Click **Policies & Configurations**.

- 3** Select a Lexmark Print configuration or policy.
- 4** Click **Actions** > **Apply To Label**.
- 5** Select one or more labels, and then click **Apply**.

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