



PrinterOn Print Management

Integration Guide



mobile printing solutions | enterprise | education | public printing locations

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1

Overview: PrinterOn and print management

PrinterOn has focused on providing Cloud Print solutions to connect users to their output no matter where they are. The PrinterOn solution is designed to operate alongside, and to complement, a number of existing print management systems. PrinterOn provides a wide range of mobile print options and supports various print management technologies, such as Pull Printing.

The PrinterOn solution integrates many years of experience working alongside print management providers, both large and small. In most cases, the PrinterOn solution works out of the box; the PrinterOn software automatically manages print jobs to ensure that print data is delivered to print queues and printers in a format that is expected by the print management software.

The PrinterOn solutions work well with most print management and cost recovery solutions when deployed along with a common authentication service, such as LDAP or Active Directory. Having an authentication service allows PrinterOn to authenticate users, collect necessary information about the user, and deliver that information securely to the print management solution.

This approach allows PrinterOn to provide a wide range of mobile print methods without limiting the print management software.

The following diagram illustrates how PrinterOn integrates with print management solutions:



How PrinterOn and print management work together

The primary goal of integrating mobile print with print management is to ensure that the user's information and identity is correctly linked with their print job throughout the entire print process, from submission, to authentication, to job release. PrinterOn's solution includes a broad range of techniques to ensure that a user's identity is properly collected and communicated to your print management installation.

- [Comprehensive workflow tracking and auditing](#)
- [Fully managed print workflows](#)
- [iOS compatibility](#)
- [Advanced management capabilities](#)

Comprehensive workflow tracking and auditing

PrinterOn works best when it uses the same Active Directory or LDAP server as your print management installation. The PrinterOn solution extends traditional authentication and authorization to all its supported printing methods. By providing your print management installation with the necessary user information, PrinterOn can extend the existing tracking and auditing capabilities to include new workflows.

Feature	PrinterOn + PMS
User-based auditing/tracking	✓
Guest print auditing/tracking	✓
Device-based auditing/tracking	✓
Mobile App print auditing/tracking	✓
Email print auditing/tracking	✓

Fully managed print workflows

PrinterOn allows you to extend the existing managed print environment beyond traditional print methods. PrinterOn extends all the same managed print capabilities to all available print workflows.

Feature	PrinterOn
Web-based Printing	✓
Mobile App Printing (<i>iOS or Android</i>)	✓
ChromeOS Printing	✓
Native iOS printing	✓
Email printing	✓
Desktop Printing	✓
Citrix, SAP, and Oracle Printing	✓

iOS compatibility

PrinterOn's modular and flexible design approach allows the PrinterOn solution to extend all the benefits of print management to Apple's iOS platform. PrinterOn's solution allows iOS devices to easily submit print jobs using AirPrint, and to benefit from the robust capabilities of print management.

PrinterOn extends the following services to iOS users integrated with print management:

- Pull Printing
- Authenticated LDAP/Active Directory Print
- Authenticated job release using native print management release clients
- Guest printing
- Multiple managed print queues

Advanced management capabilities

When integrated with a print management solution, PrinterOn can offer some unique capabilities that are not available when PrinterOn, or your print management solution, is deployed alone. PrinterOn also works to ensure that many of the advanced features are available when submitting print jobs using PrinterOn.

Feature	PrinterOn + PMS
Mobile/Global Print Submission	✓
<ul style="list-style-type: none"> • Submit print jobs from any network: 3G/4G, wireless, or wired 	
Secure Release	✓
<ul style="list-style-type: none"> • Integrate and support a wide range of release options offered including authentication, card-access, etc. • Leverage both MFP embedded release clients and software release stations. 	
Follow-Me Print/Pull Print	✓

Feature	PrinterOn + PMS
<p>Managed Global Deployments</p> <ul style="list-style-type: none"> PrinterOn's solution with the ability to distribute print jobs globally offers new and unique ways of offering mobile print across geographic regions and disconnected networks. 	<p>✓</p>
<p>Advanced Guest Print</p> <ul style="list-style-type: none"> Features such as default guest user names and decorating guest user names provide numerous options to track and report guest user printing in your environment. Dynamic and customizable print workflows for guest users allow guest jobs to be isolated from standard print and offer alternative release options. 	<p>✓</p>

2

Integrating PrinterOn with print management services

This chapter outlines several generic PrinterOn configuration tasks that you can perform regardless of which print management solution you are using. You can determine which of these tasks you need to perform based on which features you want to take advantage.

- **Required tasks:** At a minimum, to ensure PrinterOn solution integrates correctly with your print management solution, you should:
 - Configure the PrinterOn server to use the same user authentication service as your print management server. Typically, this is an LDAP or Active Directory (AD) server. For more information on configuring PrinterOn authentication, see [Configuring the authentication service for the PrinterOn server](#).
 - Configure each PrinterOn printer/printer pool to properly support the integration. For more information, see [Configuring your PrinterOn printer listings](#).
- **Optional tasks:** In most deployments, you need only complete the required configuration tasks to successfully integrate PrinterOn with your print management service. However, with a little more configuration, PrinterOn can extend the existing tracking and auditing capabilities to support guest users and to include the Email Print workflow.
 - If you intend to support guest users (that is, users with no authentication credentials), you'll need to define how User IDs for

guest users are assigned. For more information, see [Configuring PrinterOn guest printing](#).

- If you intend to support the Email Print workflow, you'll need to configure the PrinterOn Server to use the user's email address to query an LDAP/Active Directory server. For more information, see [Integrating email printing with a print management solution](#).

For additional configuration information that may be necessary for your specific print management solution, refer to the chapter for your solution:

- [Integrating PrinterOn with Ricoh Streamline NX](#)
- [Integrating PrinterOn with Equitrac](#)
- [Integrating PrinterOn with PaperCut](#)
- [Integrating PrinterOn with Brother BSI Secure Release](#)
- [Integrating PrinterOn with Samsung BCPS](#)
- [Integrating PrinterOn with Samsung Secure Release](#)
- [Integrating PrinterOn with Samsung Secure PIN Code Accounting](#)
- [Integrating PrinterOn with Samsung SecuThru Pro](#)
- [Integrating PrinterOn with Ricoh User Codes](#)

Configuring the authentication service for the PrinterOn server

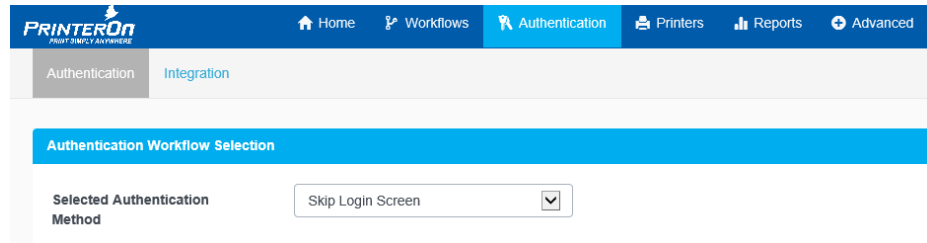
To work seamlessly with your print management solution, PrinterOn must be configured to use the same authentication service. Typically, this is an LDAP/Active Directory service.

To complete this task, you'll need some specific information about your local LDAP/AD configuration, such as your LDAP/AD server URI, and DB lookup settings.

You should ensure that the LDAP/AD server you configure for PrinterOn is the same server used by your print management solution.

To configure LDAP/AD authentication:

1. In the Configuration Manager, click **Authentication**. The Authentication tab appears.



2. In the **Selected Authentication Method** drop-down, choose LDAP/AD. The LDAP/AD Settings panel appears.
3. In the LDAP/AD Settings panel, click **Add**. The LDAP/AD Profile Details page appears, with some default settings values provided.

LDAP/AD Profile Details

Active	<input checked="" type="checkbox"/>
Name	<input type="text" value="Default"/>
Mode	<input type="text" value="Advanced"/>
LDAP/AD Server URI	<input type="text" value="ldap://yourldap.com:389"/>
Enable SSL ?	<input type="checkbox"/>
Search DN(s) ?	<input type="text" value="DC=company, DC=local"/>
Administrator Bind DN ?	<input type="text" value="bindDn"/>
Administrator Password ?	<input type="password"/>

4. Modify the following settings:

Setting	Description
Active	Enable the profile.
Name	Specify a unique name for the configuration profile.
Mode	Select Advanced . When you select Advanced, the PrinterOn server validates the user's login and password against your LDAP server. This authentication method also allows the PrinterOn Server to look up other user attributes, such as a user's email address, network login, or even a custom attribute field. The supplied Bind DN and Bind Password information is used to locate and authenticate users.

Setting	Description
LDAP/AD Server URI	Specify the IP address or DNS name of the LDAP/AD server to be used for authentication.
Enable SSL	<p>Enable this option if your LDAP server requires SSL connections.</p> <p>Note: If you check Enable SSL, you must also make sure that LDAP/AD Server URI specifies the ldaps:// protocol and SSL port (typically 636).</p>
Search DN(s)	<p>Specify the distinguished names (DN) representing the branch from which the search for the users occurs. Searches look for users in this branch and below of the LDAP tree.</p> <p>Separate multiple DNs with a semi-colon (for example, ou=OrganizationalUnit;dc=domain).</p>
Administrator Bind DN	<p>Specify the distinguished name (DN) representing the login used to bind the LDAP server for searches. It can be represented in two ways:</p> <ul style="list-style-type: none"> server\username cn=display name,ou=OrganizationalUnit,dc=domain <p>Note: If your LDAP server allows anonymous searches, leave this entry blank.</p>
Administrator Password	<p>Specify the password for the login given in Administrator Bind DN above.</p> <p>Note: If your LDAP server allows anonymous searches, leave this entry blank.</p>

5. Enable the following settings as necessary:

Setting	Description
Bind Users	Check this setting to have users authenticated and bound to the LDAP Server. Any requests received are not trusted and require full authentication.
Prepend Windows Domain Name to User ID	Check this setting to add a domain name to the user ID when submitted with the print job. This user ID is transmitted throughout the workflow and communicated with any third-party print management systems to assist in reporting and user tracking.

Setting	Description
Follow LDAP Referrals	Check this setting, unless your LDAP/AD server specifically requires that referrals be ignored.
E-mail Address Wildcard Search	If you want wild cards to be used in searching, check this setting.
Prepend "smtp:" to E-Mail Address Searching	If you are using user email in an AD environment, check this setting.

6. Configure the following user-related settings:

Setting	Description
User ID Attribute	Specify the LDAP/AD server attribute field containing the user login IDs. This attribute is appended to the Base DN in order to do user lookup in the Directory.
User Email Attribute	Specify the LDAP/AD server attribute field containing the user's email address. This attribute is appended to the Base DN in order to fetch the user's email address once they are validated against the Directory.
User Display Name Attribute	Specify the LDAP/AD server attribute field containing the full display name.
User First Name Attribute	Specify the LDAP/AD server attribute field containing the user's first name.
User Surname Attribute	Specify the LDAP/AD server attribute field containing the user's surname or last name.
User Phone Number Attribute(s)	Specify the LDAP/AD server attribute field containing the user's phone number.

7. Click **Test** to test your LDAP profile settings.
8. Once you have confirmed the profile is correctly configured, click **Apply Settings** to close the LDAP/AD Profile Details page and save the profile.
9. Click **Apply Settings** to enable LDAP authentication.

Configuring your PrinterOn printer listings


To integrate PrinterOn with a Print Management Service, each of your PrinterOn printer listings and Secure Release Anywhere pools needs to be configured properly. You'll need to configure each printer/printer pool to:

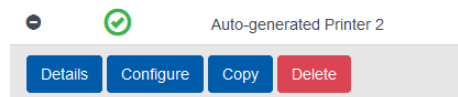
- Require a User Identifier to accompany and identify each submitted print job.
- Automatically release print jobs when they arrive. This setting allows PrinterOn to release print jobs to printer queues managed by your print management solution without user intervention.
- Specify the third-party print management service you're using.

For additional configuration required to support a specific print management solution, refer to the chapter specific to your solution.

Note: If you need to configure multiple printers, you can configure the settings for one, and then copy those settings to the remaining printers. For more information, refer to "Copying template settings to multiple printers" in the PrinterOn Enterprise/Express Configuration Guide.

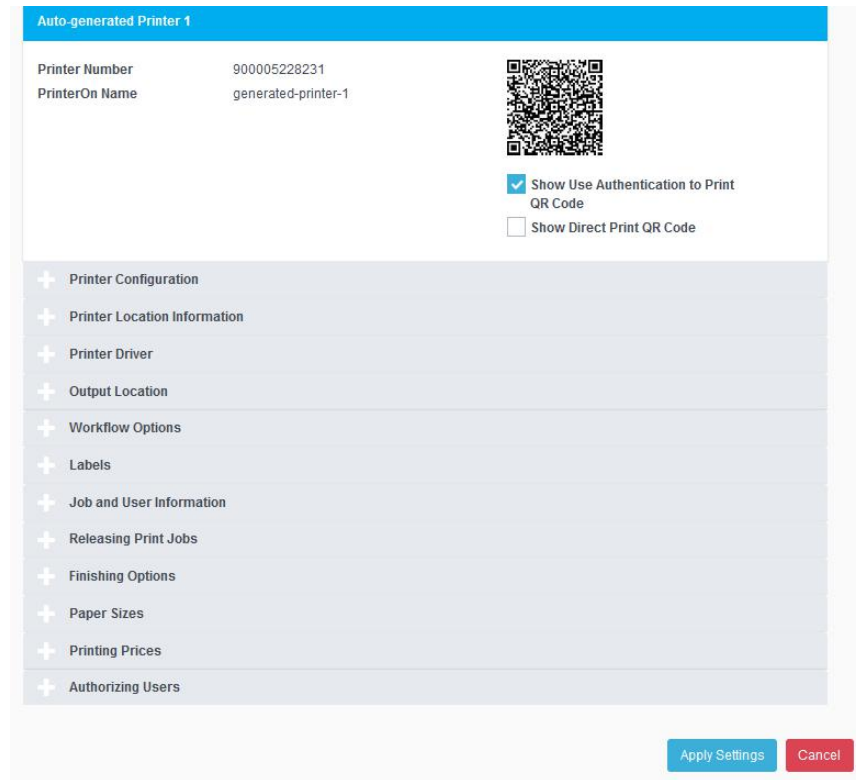
To configure a printer:

1. In the Configuration Manager, do one of the following:
 - If you are configuring a printer, click **Printers**.
 - If you are configuring a Secure Release Anywhere printer pool, click **Printers > Secure Release Anywhere Pools**.
2. In the list, click  next to the printer/printer pool that you want to configure. The printer actions appear.

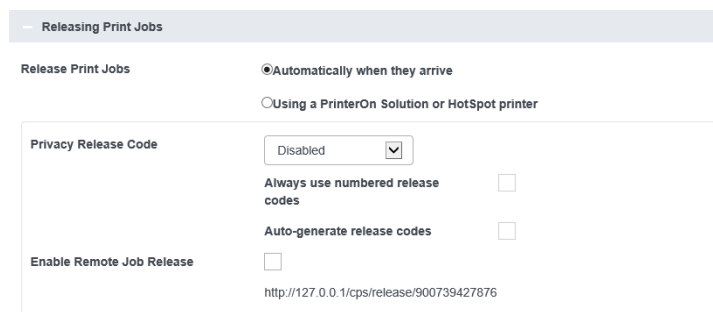


3. Click **Configure**. The Printer Configuration dialog appears. The dialog contains the printer ID summary, along with a printer-specific QR code.

Note: You can use the QR code to quickly locate and print to the printer using the PrinterOn Mobile apps.



4. Expand the **Job and User Information** section.
5. In the **User Identification** drop-down, select **Required**.
6. Expand the **Release Print Jobs** section.
7. Expand the **Releasing Print Jobs** section.



8. For the **Release Print Jobs** setting, select **Automatically when they arrive**. When you select this setting, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.
9. Locate and check **Enable 3rd Party Integration**.

- From the **Print Management Service** drop-down, select your print management service.

- Click **Apply Settings**.

Configuring PrinterOn guest printing

PrinterOn provides flexible options to allow you to configure guest printing for use alongside a print management solution, enabling PrinterOn to assign a User ID to guests. You can configure PrinterOn to ascribe a default User ID to all guests, or you can assign a unique ID to each guest user.

Enabling Guest User login

To enable Guest User login for an LDAP/AD server:

- In the Configuration Manager, click **Authentication**. The Authentication tab appears.
- On the **Authentication** tab, select **LDAP/AD** as your Authentication method. The **LDAP/AD Settings** panel appears.

- In the **LDAP/AD Server Profile** drop-down, choose which LDAP Server you want to configure.

Note: You must configure a server profile for each LDAP server you add to your solution. For more information, see “Creating and managing LDAP/AD profiles” in the PrinterOn Enterprise/Express Configuration Guide.

4. To permit guests without credentials to print, check **Guest Login Enabled**.
5. Click **Manage Guest Settings** to define the behavior. The LDAP Guest Settings dialog appears.
6. In the LDAP Guest Settings dialog, specify the **Guest Behavior**. You can choose one of the following behaviors:
 - **Do Nothing:** The job owner name for all guest job submissions is set to GuestUser.
 - **Default User ID:** The job owner name for all guest job submissions is set to the value you specify in the **Guest User ID** field, which appears when Default User ID is selected. The Guest User ID is used for all Guest Users and is the same for all workflows. This value is also delivered to third-party solutions, and appears in the PrinterOn Reports.
 - **Prompt:** The user is prompted to supply the name to use as the job owner. When you select **Prompt**, you can define the following settings:

Setting	Description
Prepend Guest User ID	All guest jobs are prepended by the value set in this field. IF left blank, nothing is prepended to the ID that the user defines.
Ensure User ID is unique	When checked, the PrinterOn Server verifies that the username supplied by the guest user does not match any existing usernames within the LDAP/AD structure.

7. Click **Apply Settings**.

Activating guest printing for a printer

Once you have enabled guest printing for the PrinterOn Server, you can activate guest printing for individual printer listings.

To activate guest printing for a printing:

1. In the Configuration Manager, click **Printers**. The Printers tab appears.

Enabled	Guest	Approval	Printer Name	Print Server URI	PQMS	GCP
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Search SalesPrinter	LPT3	<input type="checkbox"/>	<input type="checkbox"/>

2. In the appropriate row, toggle the setting in the **Guest** column to enable guest printing for that printer.
3. The Guest column does not appear in the printers list until you [enable Guest User login](#).

Integrating email printing with a print management solution

When the PrinterOn server is integrated with a print management deployment, it is important to associate user information with the print job to ensure that print jobs can be tracked properly. When also supporting email printing, you'll need to perform some additional steps to locate the user's account information and link it with their email address.

The User Lookup Integration is designed to allow the PrinterOn server to search for and use the user's account information in requests.

When a user submits a print job, the server uses the user's email address to query an LDAP/Active Directory server, to locate the user's domain account name, and to associate the job with this user. This option allows email users to be tracked by the print management server and have jobs associated with their domain accounts.

Configuring email lookup services

The following configuration provides the most commonly used configuration mode.

To configure email lookup services:

1. In the Configuration Manager, click **Authentication > Integration**.
2. From the **Integration Type** drop-down, click **User Lookup**.

The screenshot shows the 'Integration' configuration page. At the top, there is a blue header with the word 'Integration'. Below it, the 'Integration Type' is set to 'User Lookup'. A second blue header reads 'User Lookup'. Underneath, there are two settings: 'Enable User Lookup' which is checked with a blue checkbox, and 'Service API Configuration' which is set to 'http://127.0.0.1/cps/cpsapi'. A blue 'Edit' button is located at the bottom left of this section.

3. Click **Edit**.

The screenshot shows a 'User Lookup Settings' dialog box. It contains several input fields: 'Domain Filter' (empty), 'API Lookup URI' (http://127.0.0.1/cps/cpsapi), 'API Username' (apiuser), 'API Password' (masked with dots), 'API Key' (0A:6A:50:DA:BD:55), 'Email Address' (empty), and 'Printer (Optional)' (empty). At the bottom, there are two buttons: 'Apply Settings' (green) and 'Test' (blue).

4. In the **API Lookup URI** field, enter the IP address or domain name of your CPS Server and append /cps/cpsapi. For example:
 http://print.company.com/cps/cpsapi
5. Enter the **API Username**, **API Password**, and **API Key** created in CPS. For more information, see [Providing CPS API access for PrintAnywhere](#).
6. Click **Test** and populate the supplied fields to confirm whether PrintAnywhere can successfully locate user information for email print jobs.
7. Once you have confirmed that the PrintAnywhere can successfully locate user information, click **Apply Settings** to save the settings.

Providing CPS API access for PrintAnywhere

When the PrintAnywhere component is installed on a different machine than the PrinterOn Central Print Services, it requires permission to request user information. To enable PrintAnywhere to request user information, you must configure it as a valid user of the CPS API, with the appropriate access rights and credentials.

Note: This task only needs to be completed if PrintAnywhere is installed on a *different* machine than the Central Print Services component. If they are installed on the same machine, PrintAnywhere has access to the CPS API without any additional configuration.

To create API access credentials for PrintAnywhere:

1. In the Configuration Manager, click **Advanced** > **Components**.
2. Click the **Configure** button adjacent the **Central Print Services** component. The Central Print Services (CPS) component configuration appears.
3. In the CPS component configuration, click **API**. The API tab appears.

API Management	
API Users	
Username	Password
apiuser	*****
Access Keys	
Key	
0A:6A:50:DA:BD:55	

4. Add a new API User account:
 - a) Click ⊕ adjacent to the **API Users** settings.
 - b) Enter a **Username** and **Password** for the CPS API user.

Note: You'll provide these settings when configuring the PrintAnywhere component. For more information, see [Configuring email lookup services](#).

5. Click ⊕ adjacent to the **Access Key** settings to generate a new key.

Note: The **Username**, **Password**, and **API key** are configured in the PrintAnywhere server. To request user information, PrintAnywhere must first authenticate itself using these credentials. Please note that PrintAnywhere does not transfer the password directly to CPS to authenticate. Instead it uses the API key to generate an encrypted token used to verify the API credentials. Changing or removing any of these values will disallow API access.

3

Integrating PrinterOn with HP Access Control

HP Access Control allows you to provide print authentication, authorization, and secure pull-printing capabilities across your organization. With HP Access Control, you can protect sensitive information with custom user controls and usage rights for accessing networked HP printers and MFPs.

Configuring HP printers and MFPs

To support HP Access Control, you must complete the following tasks:

1. [Install the HP print driver](#) on every PrintAnywhere server in your deployment, if it is not already installed.
2. [Configure the PrinterOn printer settings for your HP printer or MFP](#) to enable release codes and to automatically release print jobs from the PDS to the MFP.
3. [Configure the HP Printer](#) to be able to access the PDS release page, where users can view a list of their waiting print jobs and release them to the printer.

Installing the HP print driver

HP Access control requires you to use the HP PCL6 UPD (Universal Print Driver) in conjunction with your HP printers or MFPs. To integrate PrinterOn with HP Access Control, you must install this driver on every PrintAnywhere Server in your PrinterOn deployment.

To install the HP print driver:

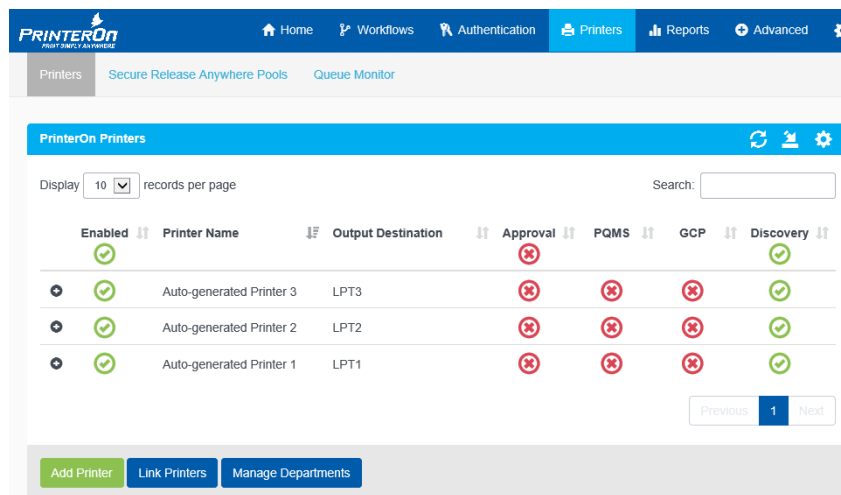
1. Download the driver from support.hp.com. You'll be asked to choose your region.
2. Expand the **Universal Print Driver** section.
3. Locate HP Universal Print Driver for Windows PCL6, then click **Download** to download the driver installer.
4. After the download completes, locate the driver installer on your computer, then double-click it to begin installation.
5. If you have multiple PrintAnywhere servers installed, copy this installer and run it on each of the remaining servers.


Configuring the PrinterOn printer settings for your HP printer or MFP

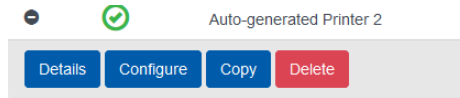
To support HP Access Control, you must configure the PrinterOn printer to automatically release print jobs from the PDS to the printer/MFP.

To configure the PrinterOn printer settings to support HP Access Control:

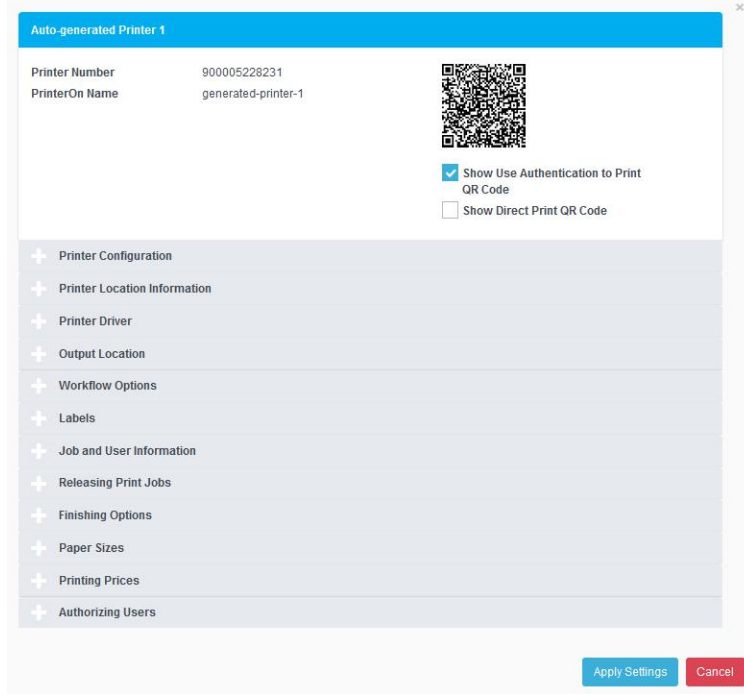
1. In the Configuration Manager, click **Printers**. The Printers tab appears.



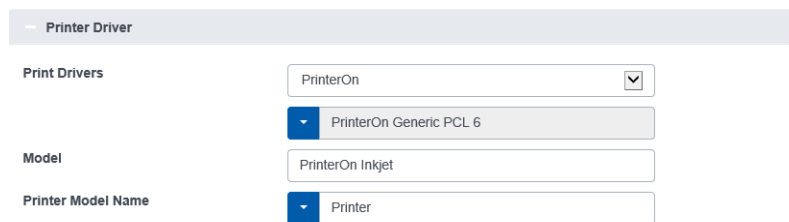
- In the PrinterOn Printers list, click  next to the HP printer that you want to configure. The printer actions appear.



- Click **Configure**. The Printer Configuration dialog appears.



- Expand the **Printer Driver** section.



- From the Print Drivers drop-down, select **HP**.

6. Expand the **Releasing Print Jobs** section.

Releasing Print Jobs

Release Print Jobs Automatically when they arrive
 Using a PrinterOn Solution or HotSpot printer

Privacy Release Code

Always use numbered release codes

Auto-generate release codes

Enable Remote Job Release

<http://127.0.0.1/cps/release/900739427876>

7. For the **Release Print Jobs** settings, select **Automatically when they arrive**. When you select this setting, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.
8. Locate and check **Enable 3rd Party Integration**.
9. Select **HP Access Control**.

Enable 3rd Party Integration

Print Management Service

10. Click **Apply Settings**.

Configuring the HP device to access the PrinterOn release page

To complete the integration of PrinterOn with HP Access Control, you need to configure the HP device with some PrinterOn software. Which software you need to install depends on which how your PrinterOn solution is deployed:

- **If you have deployed an on-premise PrinterOn solution:** You'll need to add a link to your HP printer that allows users can access the Print Delivery Station's release page. The release page is a web-based print queue from which users can view a list of their print jobs and release them to the printer. This process is as simple as adding a button to the Home Screen of the HP printer that acts as a quick link to the PDS release page.

For more information, see [Configuring the HP printer/MFP in an on-premise deployment](#).

- **If you have deployed a cloud-based PrinterOn solution:** You'll need to install the PrinterOn Agent for HP on your HP printer. The PrinterOn Agent functions as a PDS that is embedded right on the printer itself. For more information, see [Configuring the HP printer/MFP in a cloud-based deployment](#).

Configuring the HP printer/MFP in an on-premise deployment

In an on-premise PrinterOn deployment, you need only a button to your HP printer that links to your PDS release page. You can add the button to a single printer using the HP OXPd Button Manager, or you can use HP's Web Jetadmin console to configure a fleet of printers with this button at once.

For information on downloading and using Web Jetadmin, refer to the [HP Web Jetadmin website](#).

With HP's OXPd Button Manager, you can quickly add a button to the home page of an HP printer or MFP that, when click, opens the PDS release page, where users can view a list of their print jobs and release them for printing.

To configure the printer, you need to complete the following tasks:

1. [Download and customize the PrinterOn template button file](#).
2. [Import the button file into the HP OXPd Button Manager](#).

Downloading and customizing the PrinterOn template button file

The HP OXPd Button Manager allows you to import a button file, an XML file that defines the button image and URL information for the PDS release page.

To simplify the configuration process, PrinterOn has a template button file available that you can download and modify before importing it into the Button Manager.

To create your button file:

1. Download and extract the PrinterOn template button file:

<http://dl.printeron.com/oxpdbutton/PrinterOnRelease.zip>

Note: This URL is case sensitive.

2. Open the PrinterOnRelease.xml file in a text editor.
3. In the <browserTarget> element, locate the <uri> child element:

```
<uri>http://<EnterPDSIP>:8181/basic/?printerNumber=<Enter  
900xxxxxxx PrinterNumber>&lang=en_US</uri>
```

4. Modify the following components of the URI:
 - <EnterPDSIP>: Replace this text with the IP address of the Print Delivery Station managing the printer you're configuring.
 - <Enter 900xxxxxxx PrinterNumber>: Replace this text with the PrinterOn printer number for the HP printer you're configuring.

Note: This number is a 10-digit number beginning with 900. You can find this number at the top of the Printer Configuration dialog in the PrinterOn Configuration Manager.

5. Save the file.

You can now import this button file into the HP Button Manager.

Importing the button file into the Button Manager

Once you have prepared the button file, you can import it into the Button Manager.

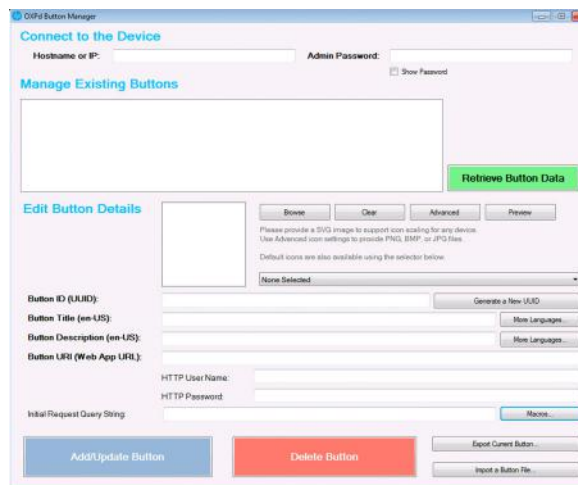
To import the button file:

1. Download the following file and extract the OXPd Button Manager executable.

<http://dl.printeron.com/oxpdbutton/ButtonManager.zip>.

Note: This URL is case sensitive.

2. Launch the Button Manager.



3. Connect the Button Manager to the HP printer:
 - Entering the **Hostname or IP** address of the printer.
 - Provide the **Admin Password** for the printer, if necessary.
4. Click **Import Button File**.
5. Navigate to and select the button file you just created, then click **Open**. The Button Manager is populated with a PrinterOn button image and the URI information for the PDS.
6. Click **Add/Update Button**.

Configuring the HP printer/MFP in a cloud-based deployment

In a cloud deployment of PrinterOn, it's necessary to install the PrinterOn Agent for HP directly on your printer. The PrinterOn Agent for HP is, essentially, the Print Delivery Station software that allows the printer to poll a connected PDH for print jobs and connects your HP printer to your PrinterOn service across disparate networks.

To install the PrinterOn Agent for HP on your printer:

1. Download the following file and extract the PrinterOn Agent for HP installer:

<http://dl.printeron.com/oxpdbutton/PrinterOnInstaller.zip>.

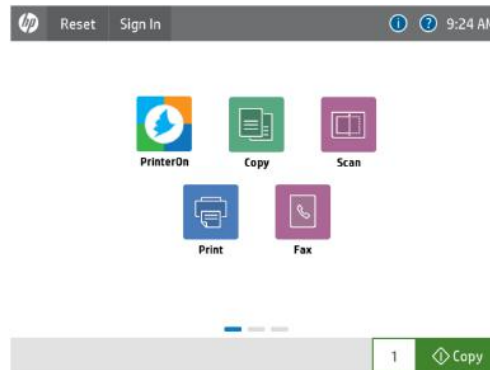
Note: This URL is case sensitive.

2. Launch the PrinterOnEmbeddedInstaller.exe.



3. If necessary, change the **Language** you want the installer appear in. You can choose between English, French, German, Italian and Spanish.
4. In the OXPd URL field, specify the location of your HP printing service.
5. Specify the **Printer IP address or hostname** of the printer on which you are installing the agent.
6. In the **EWS admin password** field, specify the administrator account password for the printer on which you are installing the agent.
7. Click **Install**. Installer connects to the HP printer, installs the software and registers itself with the PrinterOn service.

With the agent installed, a PrinterOn application is added to the Home Screen of the printer panel.



Releasing print jobs using the PrinterOn Agent for HP

Once the PrinterOn Agent for HP is installed on the printer, users can submit print jobs to the printer and release them for printing using the PrinterOn app on the printer panel.

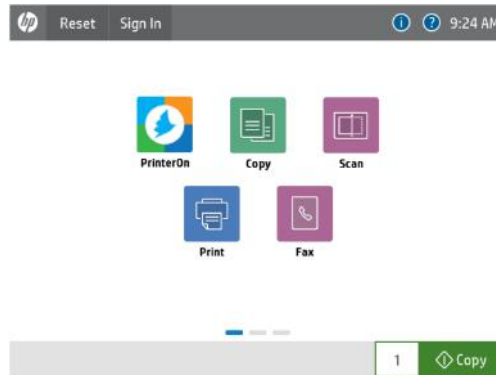
Depending on the PrinterOn configuration settings for the printer and agent, the user can view a list of their pending print jobs in one of three ways:

- **Entering their user credentials:** If authentication has been set up for the PrinterOn service, the user can type in their user credentials at the printer panel.
- **Entering a Secure Release Code:** If release codes have been set up for the printer, after printing, the user receives a Secure Release Code which they can enter at the printer panel. By default, the code is valid for 72 hours following the submission of the print request. All print jobs with that release code are displayed.
- **Using card authentication:** If the printer has a card reader and card authentication has been enabled for the agent, the user can tap their card on the card reader.

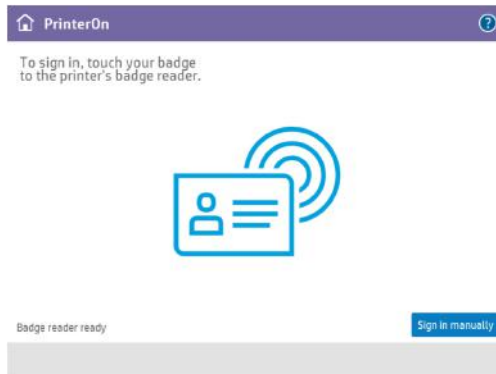
Note: Before using their card to authenticate, the user must manually register their card at the printer. For more information see [Registering a card with the PrinterOn Agent](#).

To release a print job:

1. On the Home Screen of the HP printer panel, tap the PrinterOn icon to launch the PrinterOn Agent app.



2. If you have enabled card authentication for the agent, the agent will ask you to tap the card reader to sign in.



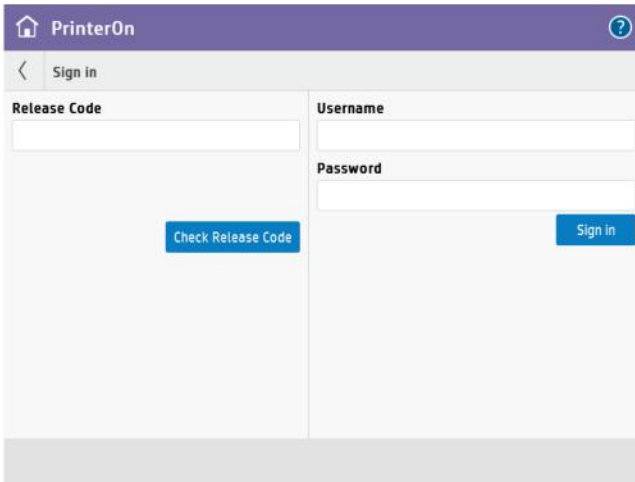
Do one of the following:

- If you have already registered your card with the PrinterOn Agent, tap the card on the card reader. After authenticating, a list of all your pending your print jobs appears. [Proceed to Step 4.](#)

Note: If you haven't yet registered your card at the printer, you'll first need to sign in manually and [register your card.](#)

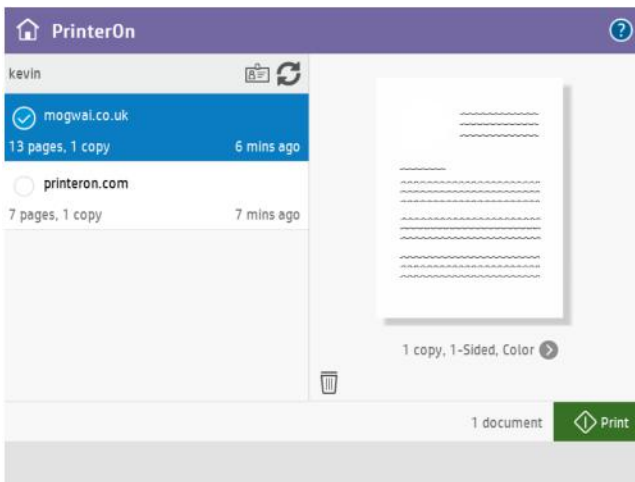
- Tap **Sign in manually**. The PrinterOn Agent sign in page appears. [Continue to Step 3.](#)

3. On the PrinterOn sign in page, you can sign in using one of the following methods:
 - **Release Code:** Enter the **Release Code** that you received when you submitted the print job, then click Check Release Code. A list of all pending print jobs with the provided release code appears.
 - **User credentials:** Enter your PrinterOn **Username** and **Password**, then click **Sign in**. After authenticating, a list of all your pending your print jobs appears.

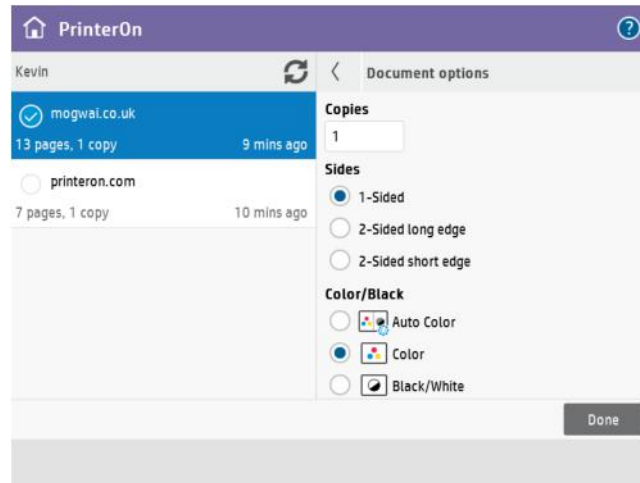


The screenshot shows the PrinterOn sign-in interface. At the top, there is a purple header with a home icon and the text 'PrinterOn'. Below this is a navigation bar with a back arrow and the text 'Sign in'. The main content area is divided into two columns. The left column contains a 'Release Code' input field and a blue button labeled 'Check Release Code'. The right column contains 'Username' and 'Password' input fields, and a blue button labeled 'Sign in'.

4. From the list of jobs in the left pane, select the job you want to print.



- If you want to change the print options before printing, click the > button below the job preview, configure the options as necessary, then click **Done**.



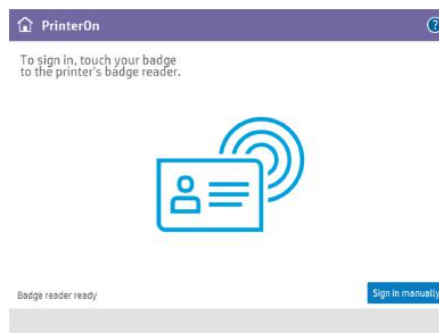
- To release the job to the printer for printing, tap **Print**.
- Collect your print job.


Registering a card with the PrinterOn Agent

Before you can use card authentication to log into the PrinterOn Agent, you must first register your card with the agent.

To register your card:

- On the Home Screen of the HP printer panel, tap the PrinterOn icon to launch the PrinterOn Agent app.
- If you have enabled card authentication for the agent, the agent will ask you to tap the card reader to sign in. Instead, tap **Sign in manually** to choose an alternate method of authentication.



3. Enter your user credentials, then tap **Sign in**.
4. On the Job List page tap the Register Card button ().
5. Tap your card on the card reader. The PrinterOn agent registers the card and associates it with your user credentials.

The next time you print to this printer, you can sign in using your card to view your list of print jobs.

4

Integrating PrinterOn with Ricoh Streamline NX

This chapter describes the workflows that might exist when integrating PrinterOn with Ricoh's Streamline NX.

Software requirements

To integrate PrinterOn with Streamline NX, you must have the following minimum software versions:

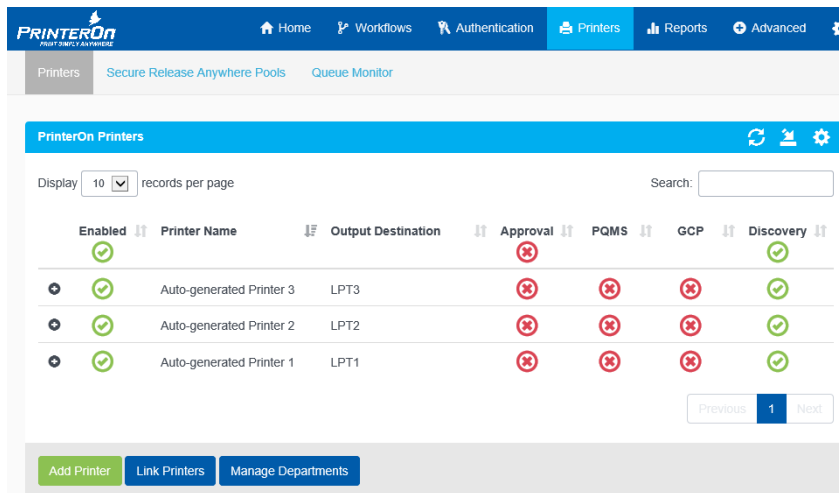
- Streamline NX Version 2.1 or later
- PrinterOn Server 2.3 or later

Configuring PrinterOn printers to support Ricoh Streamline NX

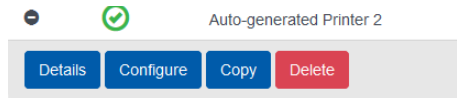
To fully enable Ricoh Streamline NX support, you must first configure your PrinterOn printers to use the feature.

To configure the PrinterOn printer settings to support Ricoh Streamline NX:

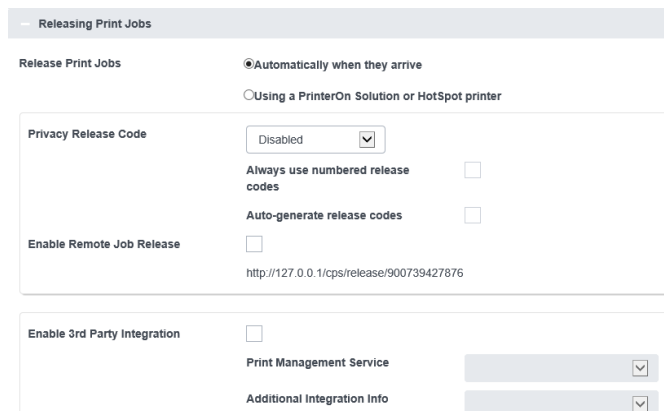
1. In the Configuration Manager, click **Printers**. The Printers tab appears.



2. In the PrinterOn Printers list, click **+** next to the printer that you want to configure. The printer actions appear.



3. Click **Configure**. The Printer Configuration dialog appears.
4. Expand the **Releasing Print Jobs** section.



5. Locate and check **Enable 3rd Party Integration**.
6. In the **Print Management Service** drop-down, select **Ricoh Streamline NX**.
7. Click **Apply Settings**.

Configuring guest printing for Ricoh Streamline NX

To support guest printing with Streamline NX, you'll need to configure some additional settings for the PrinterOn settings.

To configure guest printing for Ricoh Streamline NX, you need to:

1. Configure guest printing for the PrinterOn Server, and activate guest printing for each printer, as described in [Configuring PrinterOn guest printing](#).
2. Define the User Lookup settings for the PrinterOn Server, as described in [Configuring email lookup services](#).
3. [Configure the release code options for unidentified users](#).

Configuring release code options for unidentified users

To configure release code options:

1. In the Configuration Manager, click **Authentication > Integration**.
2. Ensure that **User Lookup** is selected as the **Integration Type** and that the [User Lookup settings are correctly configured](#).

The screenshot displays the configuration interface for PrinterOn. It is divided into two main sections: 'Integration' and 'User Lookup'.

Integration Section:

- Integration Type:** A dropdown menu is set to 'User Lookup'.

User Lookup Section:

- Enable User Lookup:** A checkbox is checked.
- Service API Configuration:** A text input field contains the URL 'http://127.0.0.1/cps/cpsapi'.
- Edit:** A blue button is located at the bottom left of the User Lookup section.

3. In the **User Lookup Rules** section, expand the Unidentified Users panel. This panel lets you specify the behavior of Guest and Non-Guest printers when an unidentified user submits a print job.

The screenshot shows the 'User Lookup Rules' configuration interface. The 'Unidentified Users' panel is expanded, revealing two sub-panels: 'Guest Printers' and 'Non-Guest Printers'. Each sub-panel contains three settings: 'Release Action Mode' (a dropdown menu currently set to 'Default'), 'Provide Release Code To Unidentified Users If Enabled' (a checkbox), and 'Set Release Code Information As Job Owner Name For Unidentified Users' (a checkbox). At the bottom of the main panel, there is a 'Default Failure Action Mode' dropdown menu set to 'Off'.

4. In the **Guest Printers** sub-panel, configure the following settings:
 - From the **Release Action Mode** drop-down, select **Automatic Release (Override)**.
 - Enable **Provide Release Code to Unidentified Users**.
 - Enable **Set Release Code Information as Job Owner Name for Unidentified Users**.
5. Click **Apply Settings**.

5

Integrating PrinterOn with Equitrac

This chapter describes several uses cases which you may need to address when integrating PrinterOn with Equitrac. Due to the various deployment and customer requirements, you should consider each use case as needed.

Note: Equitrac Release Station software is the recommended release method when co-deploying PrinterOn and Equitrac. Other release methods, such as the Equitrac MFP-embedded release, can be used, but is not recommended, since guest users must enter a PIN to authenticate prior to entering a release key. Additionally, release keys are not required fields, and therefore can be bypassed on the MFP panel, compromising the security of print jobs.

Software deployment requirements

When integrating with Equitrac, PrinterOn can be deployed in a variety of ways, and adapts to your existing configuration. To ensure that the PrinterOn deployment is compatible with your Equitrac system and properly provides job owner information, use one of the following options:

- Install PrinterOn's Print Delivery Station (PDS) on the Equitrac DRE.

Note: If multiple DRE servers are used, you can install a PDS on each server. You should configure the PDS to receive and process jobs only for those printers that are managed by the DRE server on which it is installed.

- Enable **Use PJI** in the Equitrac configuration. This allows you to install a PDS on any PC or server and successfully deliver job owner information to Equitrac.

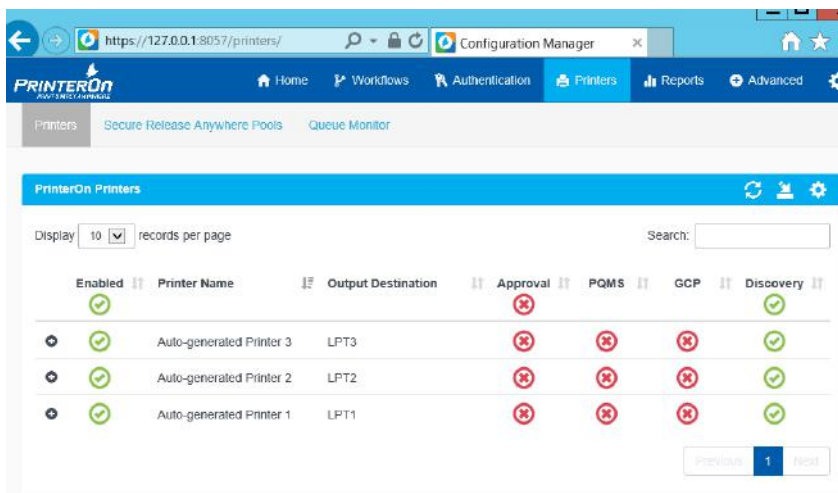
Configuring PrinterOn printers to support Equitrac

To fully enable Equitrac Secure Release and Accounting support, you must first configure your PrinterOn printers to use the feature.

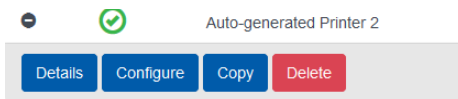
Note: In addition to configuring PrinterOn printers to support Equitrac Secure Release, if you want to integrate support for PrinterOn’s Web Print and Mobile printing workflows, you’ll also need to configure PrinterOn settings to support guest printing. For more information on how to configure PrinterOn for various Equitrac configuration scenarios, see [Configuring guest printing for common Equitrac configurations](#).

To configure the PrinterOn printer settings to support Equitrac:

1. In the Configuration Manager, click **Printers**. The Printers tab appears.



2. In the PrinterOn Printers list, click **+** next to the printer that you want to configure. The printer actions appear.



3. Click **Configure**. The Printer Configuration dialog appears.

4. Expand the **Releasing Print Jobs** section.

5. Locate and check **Enable 3rd Party Integration**.
6. In the **Print Management Service** drop-down, select **Equitrac - Printer Release Server**.
7. Click **Apply Settings**.

Configuring guest printing for common Equitrac configurations

The following sections describe how to integrate guest printing from PrinterOn web and mobile print workflows with common Equitrac configurations, including Equitrac Secure Release and Accounting.

The configuration of your PrinterOn server and printers typically involves configuring the following settings:

- the guest printing settings for your PrinterOn server
- the privacy release code settings for each guest printer

The specific settings required to successfully integrate PrinterOn with Equitrac depend on your Equitrac configuration. Three scenarios are possible:

- [Scenario 1: Equitrac Secure Release is disabled \(auto release\)](#)
- [Scenario 2: Equitrac Secure Release is enabled and uses PrinterOn release codes](#)
- [Scenario 3: Equitrac Secure Release is enabled but does not use PrinterOn release codes](#)

Scenario 1: Equitrac Secure Release is disabled (auto release)

To configure PrinterOn for this scenario, you'll need to:

- [Configure the LDAP/AD guest settings](#) so that guests are either provided with a default User ID common to all guests, or are prompted to provide a User ID.
- [Disable privacy release codes for each guest printer.](#)

Configuring LDAP/DA guest settings

To configure LDAP/AD guest settings:

1. In the Configuration Manager, click **Authentication**.
2. In the **Selected Authentication Method** drop-down, choose **LDAP/AD**. The LDAP/AD Settings panel appears.

The screenshot shows the 'LDAP/AD Settings' panel. It includes the following elements:

- LDAP/AD Server Profiles:** A dropdown menu set to 'Default', with 'Add', 'Delete', and 'Edit' buttons.
- User Rules and Printer Access:** A dropdown menu set to 'Group', with a 'Manage Departments' button.
- Guest Login Enabled:** An unchecked checkbox, with a 'Manage Guest Settings' button.
- Trusted Application Behavior:** A dropdown menu set to 'Authenticated and Guest'.
- Web Authentication Enabled for Mobile:** An unchecked checkbox.

3. In the LDAP/AD settings, enable **Guest Login Enabled**, then click **Manage Guest Settings**. The LDAP/ Guest Settings dialog appears.

4. In the LDAP/ Guest Settings dialog, in the **Guest Behavior** drop-down, choose one of the following:

- **Default User ID.** Configure the following setting:

Setting	Description
Guest User ID	The job owner name used for all guest job submissions. The Guest User ID is used for all Guest Users and is the same for all workflows. Note: Make note of the value you provide as the Guest User ID. This value must match a user account in Equitrac.


- **Prompt.** Configure the following settings.

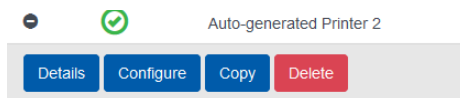
Setting	Description
Prepend Guest User ID	All guest jobs are prepended by the value set in this field. If left blank, nothing is prepended to the ID that the user defines.
Ensure User ID is unique	When checked, the PrinterOn Server verifies that the username supplied by the guest user does not match any existing usernames within the LDAP/AD structure.

5. Click **Apply Settings**.
6. Enable Guest LDAP setting on printers you want to allow guests to print to.

Disabling privacy release codes for guest printers

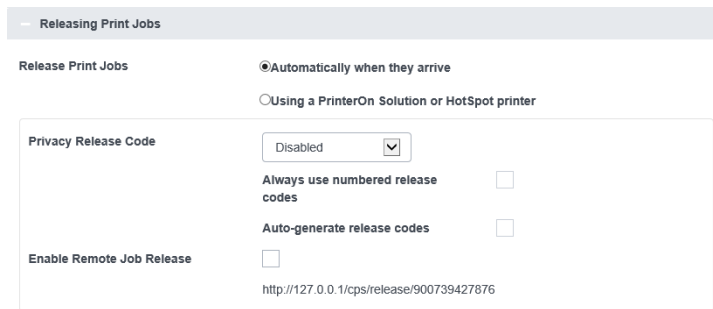
To disable privacy release codes for each guest printer:

1. In the Configuration Manager, click **Printers**.
2. In the PrinterOn Printers list, click  next to the guest printer that you want to configure. The printer actions appear.



3. Click **Configure**. The Printer Configuration dialog appears.

- Expand the **Releasing Print Jobs** section.



- For the **Release Print Jobs** setting, select **Automatically when they arrive**. When you select this value, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.
- In the **Privacy Release Codes** drop-down, choose **Disabled**.
- Click **Apply Settings**.

Equitrac configuration considerations

In this scenario, Equitrac has the following configuration requirements:

- Enable **Auto-account creation**.

In this case, the job prints automatically and is properly accounted by Equitrac.

Scenario 2: Equitrac Secure Release is enabled and uses PrinterOn release codes

To configure PrinterOn for this scenario, you'll need to:

- [Configure the LDAP/AD guest settings](#) so that guests are provided with a default User ID common to all guests.
- [Configure each guest printer to use privacy release codes](#).

Configuring LDAP/AD guest settings

To configure the LDAP/AD guest settings:

- In the Configuration Manager, click **Authentication**.

- In the **Selected Authentication Method** drop-down, choose **LDAP/AD**. The LDAP/AD Settings panel appears.


- In the LDAP/AD settings, enable **Guest Login Enabled**, then click **Manage Guest Settings**. The LDAP/ Guest Settings dialog appears.
- In the LDAP/ Guest Settings dialog, in the **Guest Behavior** drop-down, choose **Default User ID**.
- In the **Guest User ID** field, specify the job owner name used for all guest job submissions. The Guest User ID is used for all Guest Users and is the same for all workflows.

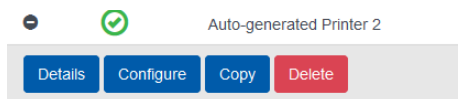
Note: Make note of the value you provide as the Guest User ID. This value must match a user account in Equitrac.

- Click **Apply Settings**.

Configuring guest printers to use privacy release codes

To configure each guest printer to use privacy release codes:

- In the Configuration Manager, click **Printers**.
- In the PrinterOn Printers list, click  next to the guest printer that you want to configure. The printer actions appear.



- Click **Configure**. The Printer Configuration dialog appears.

4. Expand the **Releasing Print Jobs** section.

5. For the **Release Print Jobs** setting, select **Automatically when they arrive**. When you select this value, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.
6. In the **Privacy Release Codes** drop-down, choose **Required**, then enable the **Auto-generate release codes** setting.
7. Click **Apply Settings**.

Equitrac configuration considerations

In this scenario, Equitrac has the following configuration requirements:

- Create a user in Equitrac that matches the User ID you specified in the Configuration Manager to collect and track Guest prints.

In this case, the job must be released by the user using one of the following mechanisms, and is properly accounted by Equitrac:

- Guests can use the Equitrac Release Station to enter their Release Key and print their documents.
- Guests can use the embedded release software on an MFP provided that the Guest has been given a User PIN to authenticate, and the embedded software is capable of prompting for a Release Key.

Note: In some cases, the Release Key can be bypassed, so PrinterOn highly recommends limiting Guest release to the Equitrac Release Station software.

Scenario 3: Equitrac Secure Release is enabled but does not use PrinterOn release codes

To configure PrinterOn for this scenario, you'll need to [configure the LDAP/AD guest settings](#) so that guests are provided with a default User ID common to all guests.

Configuring LDAP/AD guest settings

To configure the LDAP/AD guest settings:

1. In the Configuration Manager, click **Authentication**.
2. In the **Selected Authentication Method** drop-down, choose **LDAP/AD**. The LDAP/AD Settings panel appears.

3. In the LDAP/AD settings, enable **Guest Login Enabled**, then click **Manage Guest Settings**. The LDAP/ Guest Settings dialog appears.
4. In the LDAP/ Guest Settings dialog, in the **Guest Behavior** drop-down, choose **Default User ID**.
5. In the **Guest User ID** field, specify the job owner name used for all guest job submissions. The Guest User ID is used for all Guest Users and is the same for all workflows.

Note: Make note of the value you provide as the Guest User ID. This value must match a user account in Equitrac.

6. Click **Apply Settings**.

Equitrac configuration considerations

In this scenario, Equitrac has the following configuration requirements:

- You must create a user in Equitrac that matches the User ID you specified in the Configuration Manager to collect and track Guest prints.

In this case, the job can be released by the user using any release mechanism, and is properly accounted by Equitrac.

6

Integrating PrinterOn with PaperCut

The following describes various workflows that may exist when integrating PrinterOn with PaperCut. Due to the various deployment and customer requirements, you should consider each use case as necessary.

Software deployment requirements

When integrating with PaperCut, you can deploy PrinterOn in a variety of ways, and PrinterOn will adapt to your existing configuration. To ensure compatibility, and to ensure that PrinterOn properly communicates user identity information to PaperCut, use one of the following 2 options.

- **Install PrinterOn's Print Delivery Station on the PaperCut Server.**
If you are using multiple PaperCut servers, you can install a PDS on each server. You should configure each PDS to receive and process jobs only for those printers managed by the PaperCut server on which it's installed.
- **Configure PaperCut to extract usernames from spool files.**
See PaperCut's documentation for more information.

The following regular expression may be used to extract a PrinterOn user name:

```
@PJL\s+SET\s+PON_JOBOWNER\s*=\s*" (\S+?)"
```

This allows you to install PDS on any PC or server and successfully deliver job owner information to PaperCut.

Note: PrinterOn also uses other common spool data information, if present. If your PaperCut installation is already configured to use some of the common PJI headers, no additional configuration may be required.

Configuring guest printing for common PaperCut configurations

The following describes how to integrate PrinterOn web, mobile, and email print workflows with common PaperCut configurations, including PaperCut Secure Release and Accounting.

To configure PrinterOn:

1. In the Configuration Manager, click **Authentication**.
2. In the **Selected Authentication Method** drop-down, choose **LDAP/AD**. The LDAP/AD Settings panel appears.

The screenshot shows the 'LDAP/AD Settings' configuration panel. It features a blue header with the title 'LDAP/AD Settings'. Below the header, there are several configuration sections:

- LDAP/AD Server Profiles:** A dropdown menu set to 'Default', with 'Add', 'Delete', and 'Edit' buttons to its right.
- User Rules and Printer Access:** A dropdown menu set to 'Group', with a 'Manage Departments' button to its right.
- Guest Login Enabled:** A checkbox that is currently unchecked, with a 'Manage Guest Settings' button to its right.
- Trusted Application Behavior:** A dropdown menu set to 'Authenticated and Guest'.
- Web Authentication Enabled for Mobile:** A checkbox that is currently unchecked.

3. Check **Guest Log Enabled**, then click the **Manage Guest Settings** button. The LDAP Guest Settings dialog appears.
4. Configure settings for one of the following scenarios:
 - [Scenario 1: PaperCut Secure Release is disabled \(auto release\)](#)
 - [Scenario 2: PaperCut Secure Release is enabled and uses PrinterOn release codes](#)
 - [Scenario 3: PaperCut Secure Release is enabled but does not use PrinterOn release codes](#)

Scenario 1: PaperCut Secure Release is disabled (auto release)

To configure PrinterOn:

1. In the LDAP/ Guest Settings dialog, in the **Guest Behavior** drop-down, choose one of the following:

- **Default User ID.** Configure the following setting:

Setting	Description
Guest User ID	The job owner name used for all guest job submissions. The Guest User ID is used for all Guest Users and is the same for all workflows. Note: Make note of the value you provide as the Guest User ID. This value must match a user account in PaperCut.

- **Prompt.** Configure the following settings.

Setting	Description
Prepend Guest User ID	All guest jobs are prepended by the value set in this field. If left blank, nothing is prepended to the ID that the user defines.
Ensure User ID is unique	When checked, the PrinterOn Server verifies that the username supplied by the guest user does not match any existing usernames within the LDAP/AD structure.

2. Click **Apply Settings**.
3. If you plan to support email printing, click **Integration** to open the Integration tab, then complete the following steps:
 - a) Locate the **User Lookup Rules** section, then click **Unidentified Users**.
 - b) In the **Guest Printers** section, in the **Release Action Mode** drop-down, select **Automatic (Override)**.
 - c) Click **Apply Settings**.
4. Enable the Guest LDAP setting on printers you want to allow guests to print to.
5. In the Configuration Manager, click **Printers**, then configure the following settings for each guest printer:
 - Set **Privacy Release Codes** to **Disabled**.

PaperCut configuration considerations

In this scenario, PaperCut has the following configuration requirements:

- If you prompt users for a username, set the **On Demand User Creation** setting to **Create the user on demand**.

In this case, the job prints automatically and is properly accounted by PaperCut.

In an email printing workflow, if the user submits a print job over email from an email address of john@company.com, then the user will be tracked as "john". PaperCut removes "@company.com" from the tracked user.

Scenario 2: PaperCut Secure Release is enabled and uses PrinterOn release codes

PaperCut does not recognize PrinterOn release codes. This scenario is not supported.

Scenario 3: PaperCut Secure Release is enabled but does not use PrinterOn release codes

To configure PrinterOn:

1. In the LDAP/ Guest Settings dialog, in the **Guest Behavior** drop-down, choose **Default User ID**.
2. In the **Guest User ID** field, specify the job owner name used for all guest job submissions. The Guest User ID is used for all Guest Users and is the same for all workflows.

Note: Make note of the value you provide as the Guest User ID. This value must match a user account in PaperCut.

3. Click **Apply Settings**.

4. If you plan to support email printing, click **Integration** to open the Integration tab, then complete the following steps:
 - a) Locate the **User Lookup Rules** section, then click **Unidentified Users**.
 - b) In the **Guest Printers** section, in the **Release Action Mode** drop-down, select **Automatic (Override)**.
 - c) Click **Apply Settings**.
5. Enable the Guest LDAP setting on printers you want to allow guests to print to.

PaperCut configuration considerations

In this scenario, PaperCut has the following configuration requirements:

- You must create a user in PaperCut that matches the User ID you specified in the Configuration Manager to collect and track Guest prints.

In this case, the job must be released by the user using any release mechanism, and is properly accounted by PaperCut.

If you are supporting email printing:

A manual configuration step is required by PaperCut administrator after the user account is auto-created:

- The administrator needs to manually assign PaperCut Card Numbers to the user account. The user must then be informed of the PaperCut Card Numbers to be able to release their job. The user can release jobs from any method that allows them to enter a User PIN.

Alternatively, the managers/administrator can release the job for the user without a need for PaperCut Card Numbers.

Web services configuration requirements

No further changes are required on the web to support further integration with PaperCut.

7

Integrating PrinterOn with Brother BSI Secure Release

The Brother BSI Secure Release for PrinterOn allows BSI-enabled Brother printers to operate as print release stations.

Jobs delivered for secure release are held by the PDS software until the user releases the print job using the Brother device.

Users can access their print jobs directly on a Brother device by entering a release code supplied to the user during submission of their print job.

Note: The PrinterOn solution for Brother BSI is limited to using release codes for job release.

Configuring Brother BSI devices

To configure the MFP:

1. Using a web browser, navigate to the Brother printer admin web page.
For example:
`http://<ipAddress>`
2. Log in to the Brother device as an administrator.
3. Click on **Administration Settings** or **Administrator**.
4. Select **Solution Settings** > **Solutions Application Entry**.

5. Under the **Solutions Application Entry**, enter the login and logout URL as the address of the PrinterOn sever port at port 8181. For example:

```
http(s)://<server_IP>:8182/bsi
```

6. Click **Submit** to save the changes, then restart the device.

Note: If PDS is deployed as a separate component, enter the address of the PDS server in the **Solutions Application Entry**.

8

Integrating PrinterOn with Samsung BCPS

To support Samsung BCPS, you must configure the PrinterOn printer settings for the MFP, as well as settings on the MFP itself.

Note: Integration with Samsung BCPS is only supported by PrinterOn Enterprise or PrinterOn Express.

Configuring PrinterOn authentication and user settings

To fully support authenticated release and user tracking, you should configure BCPS to use the same LDAP/AD server as the PrinterOn Server. Configuring the BCPS side is discussed below. For more information on configuring the PrinterOn Server, see [Integrating PrinterOn with print management services](#).

Configuring Samsung MFP devices

To support Samsung BCPS, you must complete the following tasks:

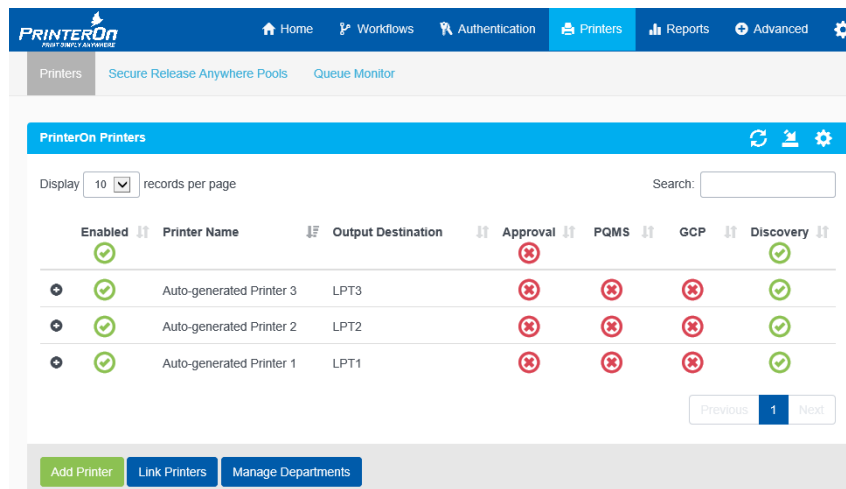
1. [Configure the PrinterOn printer settings for your Samsung MFP](#) to correctly define user information settings and to automatically release print jobs from the PDS to the MFP.
2. [Configure the MFP settings](#) to make sure it's using the same LDAP/AD Settings as the PrinterOn server.

Configuring the PrinterOn printer settings

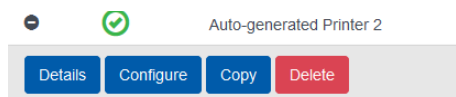
To support Samsung BCPS, you must configure the PrinterOn printer to automatically release print jobs from the PDS to the MFP.

To configure the PrinterOn printer settings to support Samsung BCPS:

1. In the Configuration Manager, click **Printers**. The Printers tab appears.



2. In the PrinterOn Printers list, click **+** next to the printer that you want to configure. The printer actions appear.



3. Click **Configure**. The Printer Configuration dialog appears.

- Expand the **Job and User Information** section.

- In the **User Identifier** drop-down, select **Optional** or **Required**.
- Expand the **Releasing Print Jobs** section.

- Select **Automatically when they arrive**. When you select this setting, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.
- Locate and check **Enable 3rd Party Integration**.
- Select **Samsung BCPS**.

- Click **Apply Settings**.

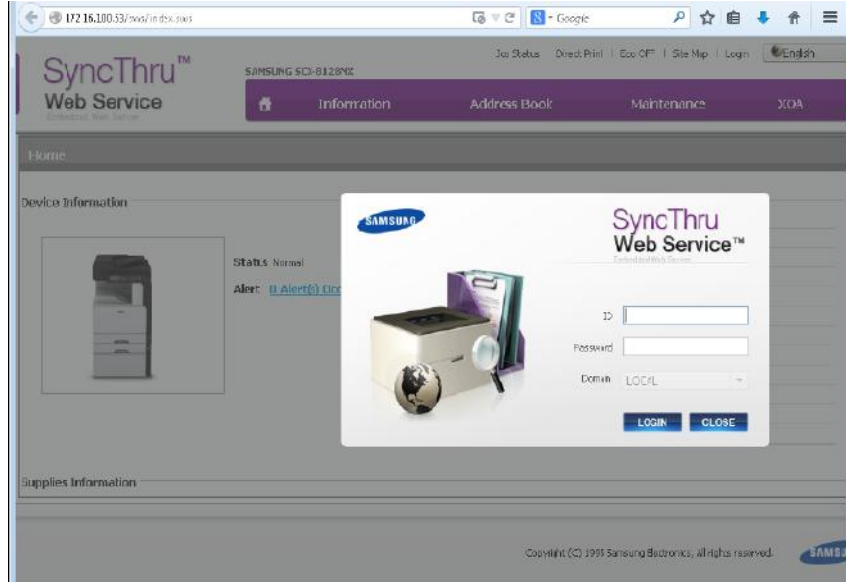
Configuring the MFP settings

You can use the SyncThru Web Service portal to configure the Samsung BCPS support. To fully support authenticated release and user tracking, BCPS should be configured to use the same LDAP/AD server as the PrinterOn Server.

To configure the MFP:

- In your browser, enter the Device IP address in the address bar. The SWS Login screen appears.

2. Login using you SWS Administrator account credentials.



3. Complete the configuration using the same information used to previously configure the PrinterOn Server's LDAP/AD authentication.
4. Apply the settings.

9

Integrating PrinterOn with Samsung Secure Release

The Samsung Secure Release for PrinterOn allows Samsung MFPs to operate as print release stations. No additional software is required on the MFP to enable this functionality.

Jobs delivered for secure release are stored on the MFP and not held by the PrinterOn software. Therefore, the MFP must provide HD storage for submitted print jobs. All jobs are managed by the MFP.

Users can access their print jobs directly on a Samsung device by entering a release code supplied to the user during submission of their print job.

Note: The PrinterOn solution for Samsung Secure Release is limited to using release codes for job release.

Supported devices

Samsung Secure Release Code is supported on select models, including:

- ProXpress M4580FX
- ProXpress M4530
- ProXpress M2680
- ProXpress M4030

- ProXpress M4080
- MultiXpress M5370LX
- MultiXpress MX4
- MultiXpress MX7

Note: Please contact Samsung for the correct firmware.

Configuring Samsung MFP devices

To support Samsung Secure Release, you must complete the following tasks:

1. [Configure the PrinterOn printer settings for your Samsung MFP](#) to enable release codes and to automatically release print jobs from the PDS to the MFP.
2. [Configure the MFP settings](#) to define the login method.


Configuring the PrinterOn printer settings for your Samsung MFP

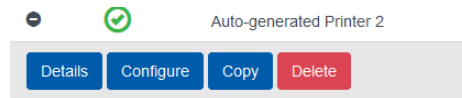
To support Samsung Secure Release, you must configure the PrinterOn printer to enable release codes and to automatically release print jobs from the PDS to the MFP.

To configure the PrinterOn printer settings to support Samsung Secure Release:

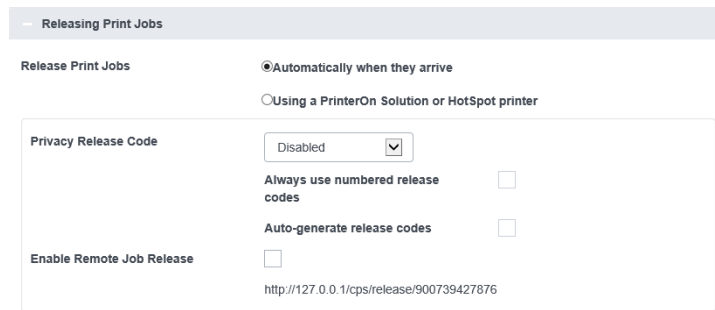
1. In the Configuration Manager, click **Printers**. The Printers tab appears.

Enabled	Printer Name	Output Destination	Approval	PQMS	GCP	Discovery
<input checked="" type="checkbox"/>	Auto-generated Printer 3	LPT3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Auto-generated Printer 2	LPT2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Auto-generated Printer 1	LPT1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

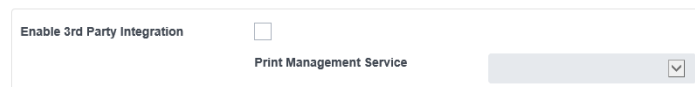
- In the PrinterOn Printers list, click  next to the printer that you want to configure. The printer actions appear.



- Click **Configure**. The Printer Configuration dialog appears.
- Expand the **Releasing Print Jobs** section.



- Select **Automatically when they arrive**. When you select this setting, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.
- In the **Privacy Release Codes** drop-down, select **Required**.
- Enable the following options:
 - Always user numbered release codes**
 - Auto-generate release codes**
- Locate and check **Enable 3rd Party Integration**.
- Select **Samsung Secure Release Code**.



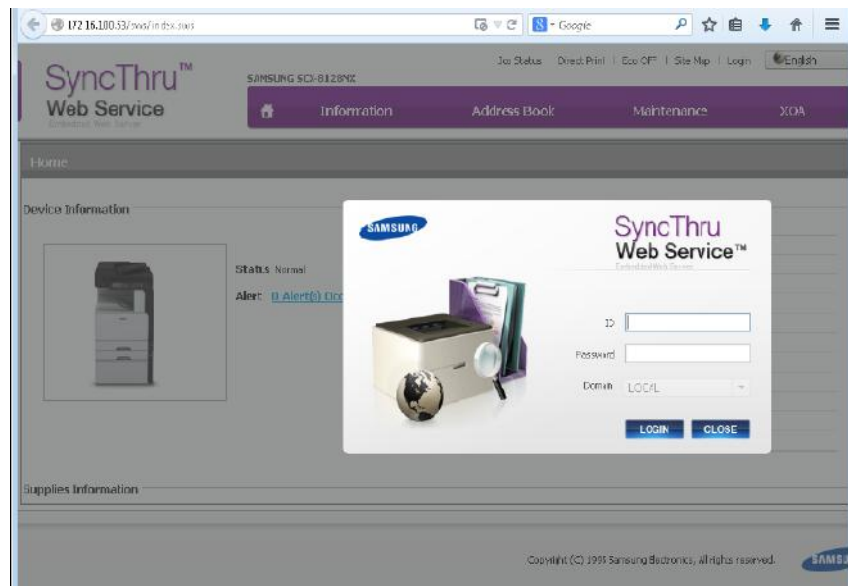
- Click **Apply Settings**.

Configuring the MFP settings

You can use the SyncThru Web Service portal to configure the Samsung Secure Release support.

To configure the MFP:

1. In your browser, enter the Device IP address in the address bar. The SWS Login screen appears.
2. Login using you SWS Administrator account credentials.



3. In the main menu, click **General**.
4. Locate **Secure Print > Login Method**.
5. Select **PW Only Login**.
6. Apply the settings.

10

Integrating PrinterOn with Samsung Secure PIN Code Accounting

Samsung Secure PIN Code Accounting allows you to track print jobs using PIN codes rather than a User ID. When a user submits a print job, the PrinterOn Server generates the print data and creates a 4-digit PIN code that is associated with the job.

Jobs are held by the MFP until the user releases the print job at a Samsung printer using the PIN code supplied by the PrinterOn Server.

Configuring Samsung MFP devices

To support Samsung Secure Release, you must complete the following tasks:

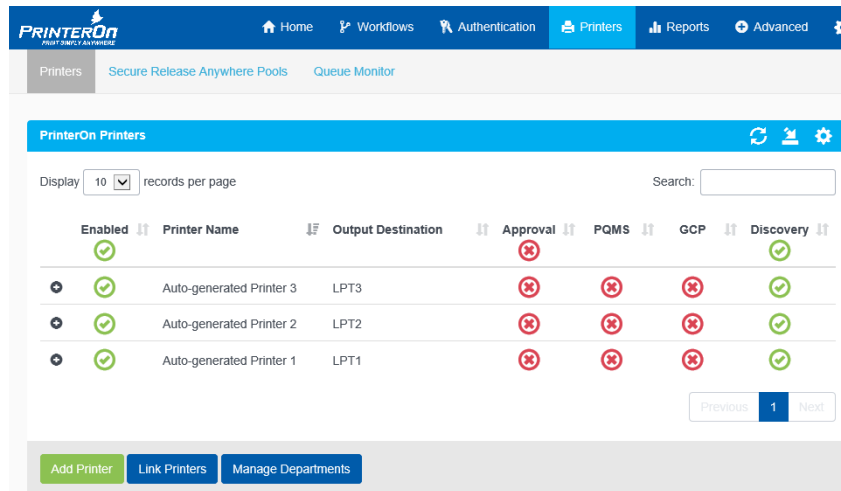
1. [Configure the PrinterOn printer settings for your Samsung MFP](#) to enable release codes and to automatically release print jobs from the PDS to the MFP.
2. [Configure the MFP settings](#) to define the login method.

Configuring the PrinterOn printer settings for your Samsung MFP

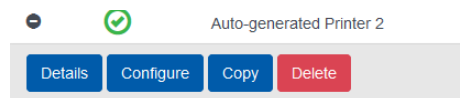
To support Samsung PIN code accounting, you must configure the PrinterOn printer to enable release codes and to automatically release print jobs from the PDS to the MFP.

To configure the PrinterOn printer settings to support Samsung Secure Release:

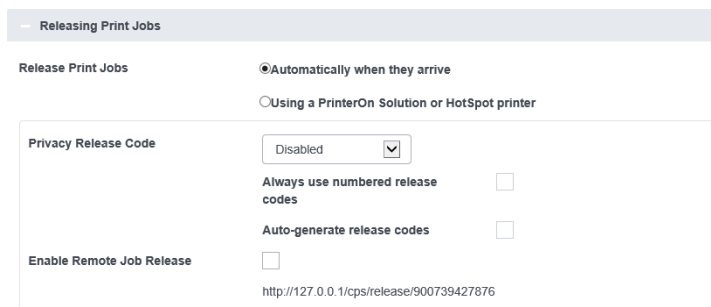
1. In the Configuration Manager, click **Printers**. The Printers tab appears.



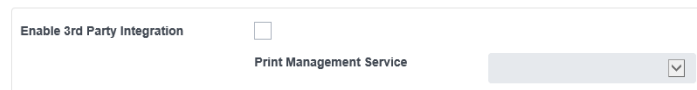
2. In the PrinterOn Printers list, click **+** next to the printer that you want to configure. The printer actions appear.



3. Click **Configure**. The Printer Configuration dialog appears.
4. Expand the **Releasing Print Jobs** section.



5. Select **Automatically when they arrive**. When you select this setting, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.
6. In the **Privacy Release Codes** drop-down, select **Required**.
7. Enable the following options:
 - **Always user numbered release codes**
 - **Auto-generate release codes**
8. Locate and check **Enable 3rd Party Integration**.
9. Select **Samsung PIN Code Accounting**.



The image shows a user interface element with a checkbox labeled "Enable 3rd Party Integration" which is currently unchecked. To the right of the checkbox is a dropdown menu labeled "Print Management Service" with a downward-pointing arrow icon.

10. Click **Apply Settings**.

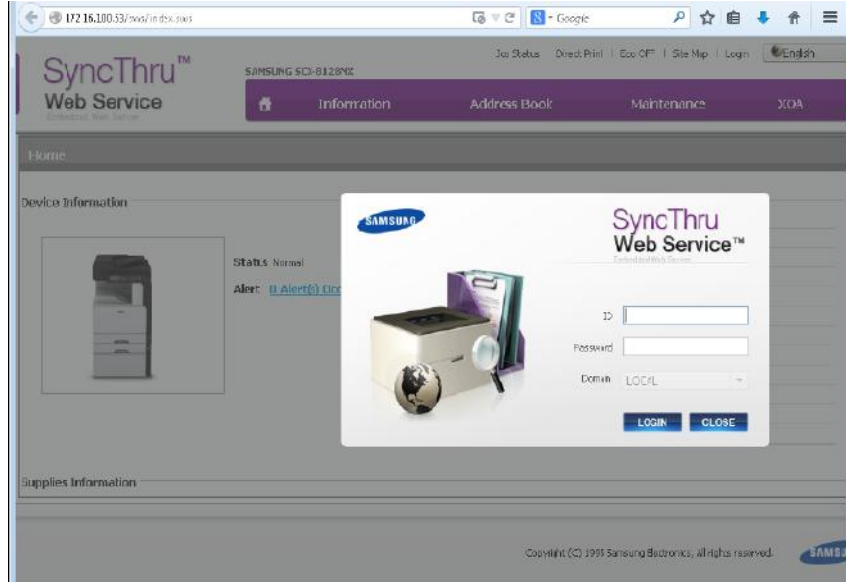
Configuring the MFP settings

You can use the SyncThru Web Service portal to configure the Samsung Secure Release support.

To configure the MFP:

1. In your browser, enter the Device IP address in the address bar. The SWS Login screen appears.

2. Login using you SWS Administrator account credentials.



3. Complete the configuration using the same information used to previously configure the PrinterOn Server's LDAP/AD authentication.
4. Apply the settings.

Integrating PrinterOn with Samsung SecuThru Pro

Samsung SecuThru Pro lets you secure your

To support Samsung SecuThru Pro, you must configure the PrinterOn printer settings for the MFP, as well as settings on the MFP itself.

Note: Integration with Samsung SecuThru Pro is only supported by PrinterOn Enterprise or PrinterOn Express. It is not support by PrinterOn Hosted.

Configuring PrinterOn authentication and user settings

To fully support authenticated release and user tracking, you should configure SecuThru Pro to use the same LDAP/AD server as the PrinterOn Server. Configuring the SecuThru Pro side is discussed below. For more information on configuring the PrinterOn Server, see [Integrating PrinterOn with print management services](#).

Configuring Samsung MFP devices

To support Samsung SecuThru Pro, you must complete the following tasks:

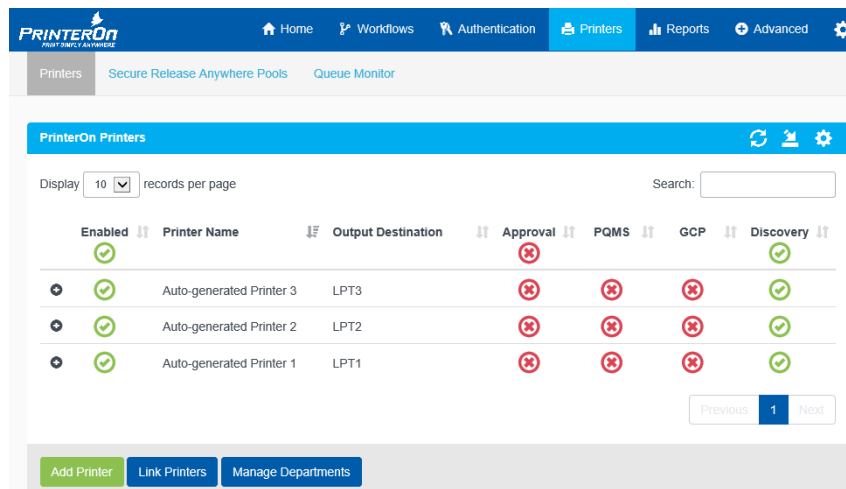
1. [Configure the PrinterOn printer settings for your Samsung MFP](#) to correctly define user information settings and to automatically release print jobs from the PDS to the MFP.
2. [Configure the MFP settings](#) to make sure it's using the same LDAP/AD Settings as the PrinterOn server.

Configuring the PrinterOn printer settings

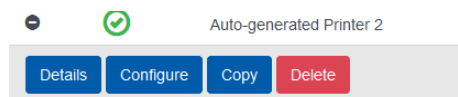
To support Samsung SecuThru Pro, you must configure the PrinterOn printer to automatically release print jobs from the PDS to the MFP.

To configure the PrinterOn printer settings to support Samsung SecuThru Pro:

1. In the Configuration Manager, click **Printers**. The Printers tab appears.



2. In the PrinterOn Printers list, click **+** next to the printer that you want to configure. The printer actions appear.



3. Click **Configure**. The Printer Configuration dialog appears.

- Expand the **Job and User Information** section.

Job and User Information

User Identifier

Client UID Secured

Session Meta Data Secured

- In the **User Identifier** drop-down, select **Optional** or **Required**.
- Expand the **Releasing Print Jobs** section.

Releasing Print Jobs

Release Print Jobs Automatically when they arrive Using a PrinterOn Solution or HotSpot printer

Privacy Release Code

Always use numbered release codes

Auto-generate release codes

Enable Remote Job Release

<http://127.0.0.1/cps/release/900739427876>

- Select **Automatically when they arrive**. When you select this setting, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.
- Locate and check **Enable 3rd Party Integration**.
- Select **Samsung SecuThru Pro**.

Enable 3rd Party Integration

Print Management Service

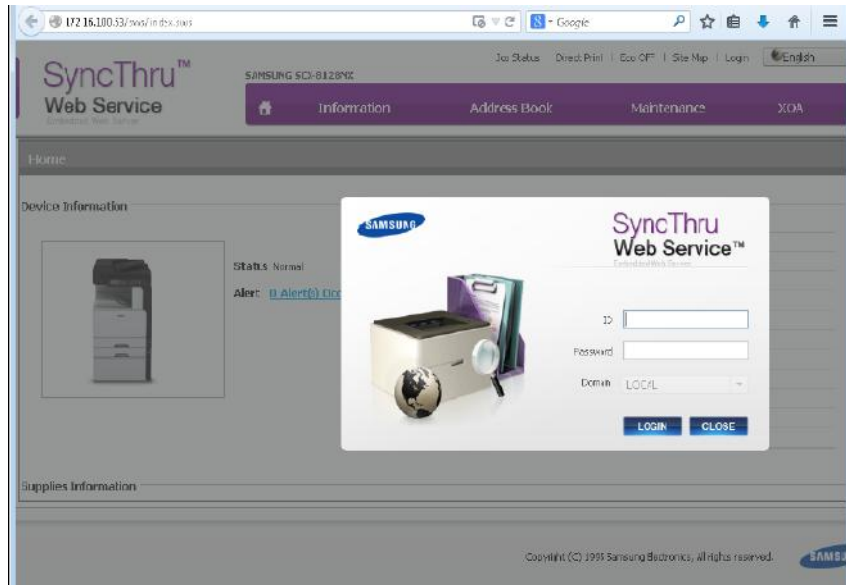
- Click **Apply Settings**.

Configuring the MFP settings

You can use the SyncThru Web Service portal to configure the Samsung SecuThru Pro support. To fully support authenticated release and user tracking, SecuThru Pro should be configured to use the same LDAP/AD server as the PrinterOn Server.

To configure the MFP:

1. In your browser, enter the Device IP address in the address bar. The SWS Login screen appears.
2. Login using you SWS Administrator account credentials.



3. Complete the configuration using the same information used to previously configure the PrinterOn Server's LDAP/AD authentication.
4. Apply the settings.

12

Integrating PrinterOn with Ricoh User Codes

Ricoh User Codes offer a convenient way to integrate PrinterOn's mobile printing while still monitoring each job for output tracking and charge-back purposes.

Ricoh User Codes are designed to work in very simple installations, as well as more complex ones described in this document. The Ricoh User Code integration works when deploying either PrinterOn's Hosted solution or the PrinterOn Enterprise or PrinterOn Express on-premise solutions.

In most cases, simply configuring the printer configuration on the PrinterOn website is sufficient to enable the Ricoh User Codes.

Ricoh uses a standard User Code system to authenticate the user. The operator simply enters their User Code, which is then compared to the registered data in the device's address book. No one without a valid User Code can access the machine. The same code can be used by multiple users to track system use by client, period, or by job for bill-back purposes.

Benefits of Ricoh User Codes

Using Ricoh User Codes offers a number of benefits:

- It captures job details (such as paper size and page count) and assigns them to the user code.
- It provides a cost-effective accounting solution for output tracking and charge-backs.
- It allows you a controlled way to offer color output while accurately tracking individual usage.
- It eliminates the need for users to load additional software on their computers.

Software deployment requirements

When integrating with Ricoh User Codes, you can deploy PrinterOn in a variety of ways, and PrinterOn will adapt to your existing configuration. PrinterOn offers two deployment options with the Ricoh User Code solution:

- **Ricoh HotSpot Embedded Solution**

In this deployment, you install and configure the Ricoh HotSpot Embedded software on a supporting Ricoh MFP and configure it for use with the HotSpot Hosted or HotSpot Enterprise solution.

No additional configuration is required in the HotSpot Embedded software to support Ricoh User Codes.

- **PrinterOn's Print Delivery Station**

In this deployment, you install PrinterOn's Print Delivery Station on the same network as the Ricoh MFP.

You configure the Print Delivery Station to deliver print jobs to the Ricoh MFP using TCP communication (for example, `tcp://172.15.25.211:9100`), set in the **Printers** tab of the PDS component configuration.

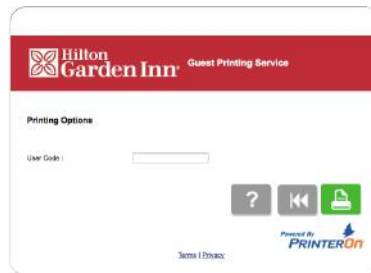
Workflow: PrinterOn with Ricoh User Codes

Ricoh User Codes can be used with both PrinterOn Hosted and on-premise solutions, and are supported by all PrinterOn print workflows, excluding email print, which does not provide a method for entering user codes. This workflow

prompts users to enter a User Code during the print process. All PrinterOn print workflows automatically display the prompt; the user must enter the user code before the print job is processed.

Hosted Print Portal

When users submit print jobs using the Hosted Print Portal, the portal displays the Printing Options page to allow them to enter their User Code.



Mobile apps

When users submit print jobs using the PrinterOn Mobile Apps, the apps display an Options page to allow them to enter their User Code.



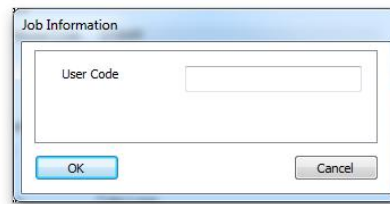
PrinterOn Mobile App for Android



PrinterOn Mobile App for iOS

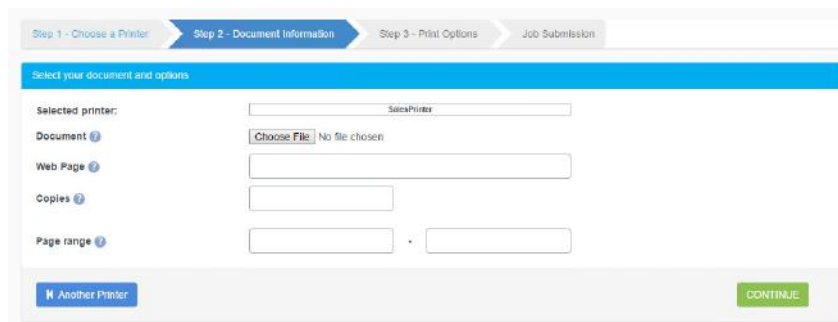
PrintWhere applications

When users submit print jobs using PrinterOn's PrintWhere universal print driver, PrintWhere displays a pop-up to allow them to enter their User Code.



PrinterOn Server Web Print Portal

When users submit print jobs using the PrinterOn Server Web Print Portal, the portal adds a field to the Document Information page to allow them to enter their User Code.



Email print

User Codes are not supported with printing using email as the user has no ability to enter their User Code in an email. It is recommended that you disable email print when using Ricoh User Codes.

Configuring Ricoh printers and MFPs

To support Ricoh User Codes, you must complete the following tasks:

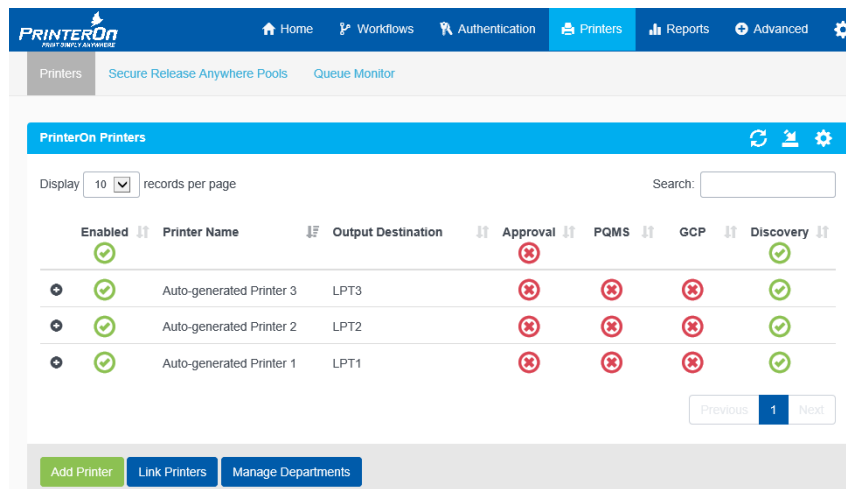
1. [Configure the PrinterOn printer settings for your Ricoh printer or MFP](#) to enable release codes and to automatically release print jobs from the PDS to the MFP.
2. [Configure the Ricoh printer or MFP](#) by adding users to the device's address book, then associating a User Code with each user.

Configuring the PrinterOn printer settings

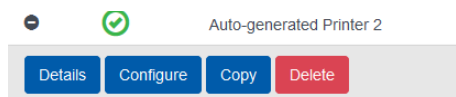
To fully enable Ricoh User Code support, the PrinterOn printer listings must be configured to enable the feature.

To configure your PrinterOn printers to support Ricoh User Codes:

1. In the Configuration Manager, click **Printers**. The Printers tab appears.



2. In the PrinterOn Printers list, click ⊕ next to the printer that you want to configure. The printer actions appear.



3. Click **Configure**. The Printer Configuration dialog appears.

4. Expand the **Releasing Print Jobs** section.

5. Locate and check **Enable 3rd Party Integration**.
6. In the **Print Management Service** drop-down, select **Ricoh Codes**.
7. Click **Apply Settings**.

Configuring the Ricoh printer or MFP

To configure the Ricoh printer or MFP, you must add users to the device's address book, then associate a User Code with each user.

Note:

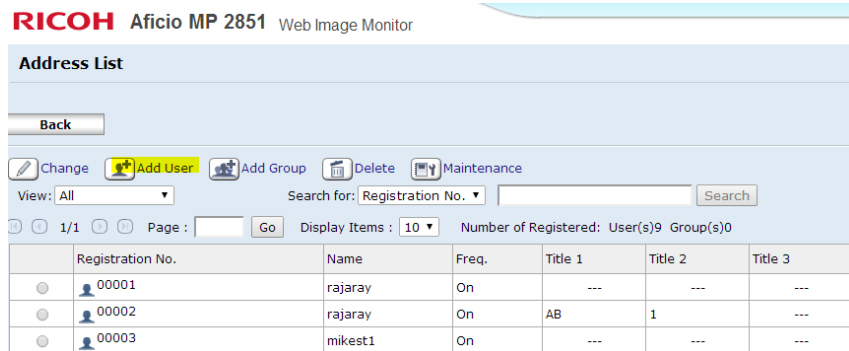
- The procedure below can be done either on Web Image Monitor or on the device's front panel. The settings might look slightly different based on Printer's model. This document describes how to use the Web Image Monitor.
- Locked print is not compatible with PrinterOn. Normal print is the only supported workflow.

To configure the User Code:

1. Login to Web Image Monitor as an administrator.



2. Go to **Address Book/List**.
3. In the Address Book page, click **Add User**, or select a user and click **Change** to modify an existing user.



- On the **Change User** page, locate the **Authentication Information** section and associate a user code with the user.

RICOH Aficio MP 2851 Web Image Monitor

Change User

OK Save and Add Another Cancel

■ Registration No. : 00009

■ Name : Ali

■ Key Display : Ali

Title

■ Title 1 : None ▼

■ Title 2 : None ▼

■ Title 3 : None ▼

■ Add to Freq. : On Off

Authentication Information

■ User Code : 1234

■ SMTP Authentication : Specify Other Auth. Info below: Do not Specify

Login User Name: _____

Login Password:

- Click **OK** to save the settings. The new user is added the address book with a user code associated with the account.

Restricting print access for User Codes

In order to track print jobs using User Codes and limit access to authorized users, you'll need to configure the device authentication management to use User Codes. Once configured, you can define which printing functions are supported and tracked.

Note: When configured to authenticate with User Codes, the MFP only allows users with a valid user code to submit print jobs.

Skipping this step allows User Code reporting, but unknown users will automatically be added to the Address Book.

To restrict print access for user codes:

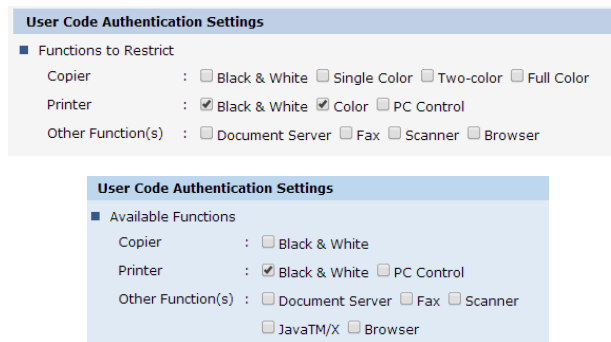
1. Within the Web Image Monitor select **User Authentication Management**.



2. Under **User Authentication Management** select **User Code**.



3. Locate the **User Code Authentication Settings** section.



Note: The options presented in this section differ based on the printer or MFP options.

To restrict access to only valid User Codes, ensure **PC Control** is disabled. Enabling PC Control allows automatic user creation in Address Book, which is not desired.

4. Enable the appropriate functions to be controlled and to be tracked by User Codes.
5. Under **Available Functions > Printer**, disable **PC Control**.

Note: Disabling PC Control restricts access to only those users with valid User Codes. If you don't disable this setting, the Address Book will automatically create accounts for unknown users, which is not desired.

6. Click **OK** and **Save**.

You can now track the job history and User Codes in the in device Address Book list to monitor usage. For example:

Address List

Back

Change Add User Add Group Delete Maintenance

View: All Search for: Registration No. Search

1/1 Page: Go Display Items: 10 Number of Registered: User(s)9 Group(s)0

Registration No.	Name	Freq.	Title 1	Title 2	Title 3	User Code
00001	rajaray	On	---	---	---	---
00002	rajaray	On	AB	1	---	---
00003	mikest1	On	---	---	---	---
00004	jzeng	On	---	---	---	---
00005	jack	On	---	---	---	---
00006	9	On	---	---	---	---
00007	craig	On	CD	---	---	---
00008	craigt	On	---	---	---	---
00009	Ali	On	---	---	---	1234

Integrating PrinterOn with Ricoh Locked Print

Ricoh Locked Print is a secure printing solution that works in conjunction with PrinterOn's Mobile and PrintWhere printing workflows. Locked Print protects sensitive information in print jobs by requiring users to enter their code on the panel of the printer or MFP before the job begins printing, ensuring that they are present at the printer before the job is released, and available to pick the job up upon completion.

The PrinterOn mobile apps and PrintWhere recognize when a printer is configured and prompt users to enter a compatible Ricoh User Code. Users using these workflows can submit their preferred codes, which are then stored on the client device so they can be used for future print jobs sent to Ricoh devices.

Note:

- With Ricoh Locked Print, users define and manage their own codes; they are not provided or managed by the PrinterOn server.
- To ensure printing security, the Remote Release feature available with the PrinterOn Mobile App is not supported when Locked Print is enabled.

Configuring Ricoh printers and MFPs

To support Ricoh Locked Print, you must complete the following tasks:

1. [Install the Ricoh print driver](#) on every PrintAnywhere server in your deployment, if it is not already installed.
2. [Configure the PrinterOn printer settings for your Ricoh printer or MFP](#) to enable release codes and to automatically release print jobs from the PDS to the printer.

No software or configuration is required on the Ricoh device itself to use Locked Print.

Installing the Ricoh print driver

Ricoh Locked Print requires you to use the Ricoh PCL6 Driver for Universal Print in conjunction with your Ricoh printers or MFPs. To integrate PrinterOn with Ricoh Locked Print, you must install this driver on every PrintAnywhere Server in your PrinterOn deployment.

To install the Ricoh print driver:

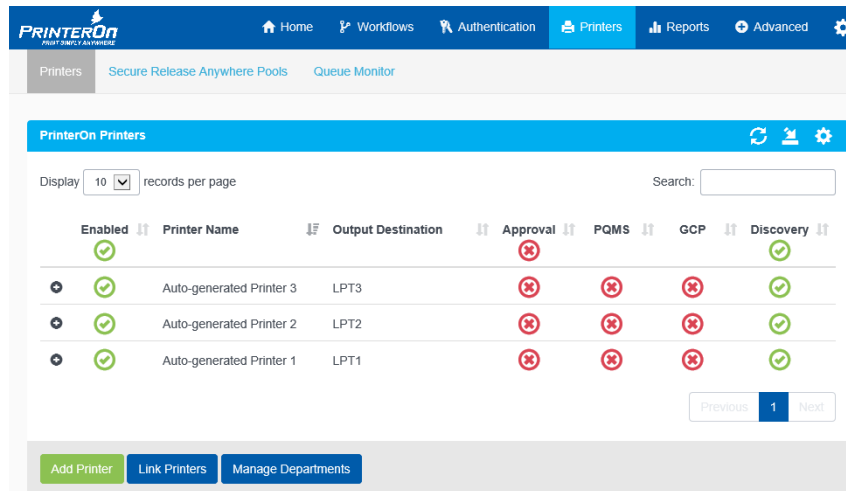
1. Download the Ricoh Driver for Universal Print from support.ricoh.com.
2. Locate the PCL6 Driver For Universal Print section, then click **Download** to download the driver installer.
3. After the download completes, locate the driver installer on your computer, then double-click it to begin installation.
4. If you have multiple PrintAnywhere servers installed, copy this installer and run it on each of the remaining servers.

Configuring the PrinterOn printer settings for your Ricoh printer/MFP

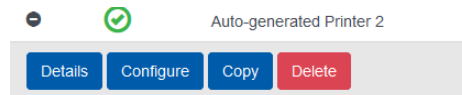
To support Ricoh Locked Print, you must configure the PrinterOn printer to automatically release print jobs from the PDS to the printer/MFP.

To configure the PrinterOn printer settings to support Ricoh Locked Print:

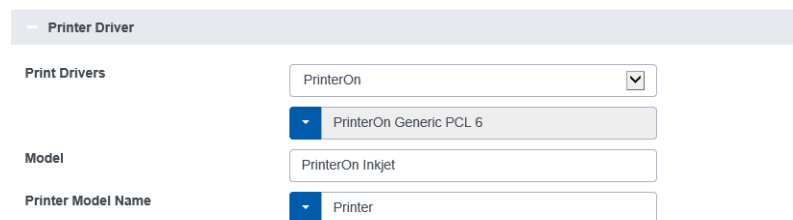
1. In the Configuration Manager, click **Printers**. The Printers tab appears.



2. In the PrinterOn Printers list, click + next to the printer that you want to configure. The printer actions appear.



3. Click **Configure**. The Printer Configuration dialog appears.
4. Expand the **Printer Driver** section.



5. From the Print Drivers drop-down, select **Ricoh**.

6. Expand the **Job and User Information** section.

Job and User Information

User Identifier: Optional

Client UID: Disabled Secured

Session Meta Data: Disabled Secured

7. Configure the following settings:

- In the **User Identifier** drop-down, select **Disabled**.
- In the **Client UID** drop-down, select **Required**.
- In the **Session Meta Data** drop-down, select **Required**.

8. Expand the **Releasing Print Jobs** section.

Releasing Print Jobs

Release Print Jobs: Automatically when they arrive Using a PrinterOn Solution or HotSpot printer

Privacy Release Code: Disabled

Always use numbered release codes:

Auto-generate release codes:

Enable Remote Job Release:

<http://127.0.0.1/cps/release/900739427876>

9. For the **Release Print Jobs** settings, select **Automatically when they arrive**. When you select this setting, the PDS automatically delivers print jobs to the MFP, allowing the MFP to control when to release the print job.

10. Locate and check **Enable 3rd Party Integration**.

11. Select **Ricoh Locked Print**.

Enable 3rd Party Integration:

Print Management Service: [Dropdown]

12. Click **Apply Settings**.

A

Supported secondary integrations

In some configurations, it is possible to integrate PrinterOn with multiple third-party print management systems. These situations typically involve a primary print management system and a secondary integration that provides complimentary or additional functionality.

Because some integrations can conflict with others, when you choose a primary third-party Print Management Service, the Configuration Manager automatically limits the Additional Integration Info to compatible secondary integrations.

The following table outlines supported secondary integrations for each primary Print Management Service.

Primary Integration	Supported Secondary Integration
Equitrac	<ul style="list-style-type: none">• Xerox Standard Accounting• Fuji Xerox Mode 1• Samsung Secure Release• Samsung PIN Code Accounting• Samsung Secure Release Code

Primary Integration	Supported Secondary Integration
Samsung SecuPrint	<ul style="list-style-type: none"> • Xerox Standard Accounting • Fuji Xerox Mode 1 • Samsung Secure Release • Samsung PIN Code Accounting • Samsung Secure Release Code • Samsung SecuThru Pro • Samsung BCPS
Samsung Secure Release Code	<ul style="list-style-type: none"> • Xerox Standard Accounting • Fuji Xerox Mode 1
Samsung SecuThru Pro	<ul style="list-style-type: none"> • Xerox Standard Accounting • Fuji Xerox Mode 1 • Samsung PIN Code Accounting
Samsung BCPS	<ul style="list-style-type: none"> • Xerox Standard Accounting • Fuji Xerox Mode 1 • Samsung PIN Code Accounting

B

Configuring interactive authentication services for use with PrintWhere

If you need to support versions of PrintWhere earlier than version 5.2.3, you may need to configure PrinterOn's built in interactive authentication services. With PrintWhere version 5.2.3 or later, authentication occurs seamlessly in the background, with no additional configuration necessary.


Interactive Authentication is best suited for cases when **User Lookup for Email Print** is disabled.

To use the server's built in authentication services for all printing clients, you must first configure some information in the PrinterOn Directory. Before continuing, ensure you have access to the CPS Server's Service URL.

To configure interactive authentication services:

1. Login to the PrinterOn.com web admin portal at www.printeron.com/administrators.

The **Management Home Page** appears.

2. Log in and click .
3. Locate the printer that you want to configure and click **Payment and Authorization** section.

4. Locate the **Authorizing users** section and check **Redirect to authorize user, track pages or bill customer**. Enabling this option provides additional configuration options.

Authorizing users

Redirect to authorize user, track pages or bill customer.

User Authentication URL:

5. Check **User Authentication URL**, then enter the IP address or domain name for your CPS server and append /cps/aaaLogin.jsp to the server address. For example:
`http://cps.server.com/cps/aaaLogin.jsp`
6. Save your settings.

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