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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, several 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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>PrinterOn + PMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>User-based auditing/tracking</td>
<td>✔</td>
</tr>
<tr>
<td>Guest print auditing/tracking</td>
<td>✔</td>
</tr>
<tr>
<td>Device-based auditing/tracking</td>
<td>✔</td>
</tr>
<tr>
<td>Mobile App print auditing/tracking</td>
<td>✔</td>
</tr>
<tr>
<td>Email print auditing/tracking</td>
<td>✔</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>PrinterOn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web-based Printing</td>
<td>✔</td>
</tr>
<tr>
<td>Mobile App Printing (iOS or Android)</td>
<td>✔</td>
</tr>
<tr>
<td>ChromeOS Printing</td>
<td>✔</td>
</tr>
<tr>
<td>Native iOS printing</td>
<td>✔</td>
</tr>
<tr>
<td>Email printing</td>
<td>✔</td>
</tr>
<tr>
<td>Desktop Printing</td>
<td>✔</td>
</tr>
<tr>
<td>Citrix, SAP, and Oracle Printing</td>
<td>✔</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>PrinterOn + PMS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mobile/Global Print Submission</strong></td>
<td></td>
</tr>
<tr>
<td>• Submit print jobs from any network: 3G/4G, wireless, or wired</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Secure Release</strong></td>
<td></td>
</tr>
<tr>
<td>• Integrate and support a wide range of release options offered including authentication, card-access, etc</td>
<td>✔</td>
</tr>
<tr>
<td>• Leverage both MFP embedded release clients and software release stations</td>
<td></td>
</tr>
<tr>
<td><strong>Follow-Me Print/Pull Print</strong></td>
<td></td>
</tr>
</tbody>
</table>
### Managed Global Deployments

- 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.

### Advanced Guest Print

- 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.
Integrating PrinterOn with print management

In most deployments, little to no additional configuration is required, beyond ensuring that PrinterOn is configured to use the same authentication service as the print management installation. This is most often an Active Directory or LDAP server.

In general, to ensure PrinterOn solution integrates correctly with your print management solution, you should:

- Ensure that your PrinterOn printer/MFP is configured to require a User Identifier.
- Ensure that your PrinterOn server and print management server are using the same LDAP or Active Directory Server.
- Ensure your PrinterOn printer listing is configured to **Automatically Release** print jobs. This setting allows PrinterOn to release print jobs to printer queues managed by your print management solution without user intervention.

The following sections discuss some of the individual settings in greater detail.
Configuring LDAP/AD authentication for the PrinterOn server

To configure LDAP or Active Directory authentication for use with your PrinterOn server, you’ll need some specific information about your local LDAP/AD configuration.

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.

4. Modify the following settings:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>Enable the profile.</td>
</tr>
<tr>
<td>Name</td>
<td>Specify a unique name for the configuration profile.</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Mode</td>
<td>Select <strong>Advanced</strong>. 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.</td>
</tr>
<tr>
<td>LDAP/AD Server URI</td>
<td>Specify the IP address or DNS name of the LDAP/AD server to be used for authentication.</td>
</tr>
<tr>
<td>Enable SSL</td>
<td>Enable this option if your LDAP server requires SSL connections.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> If you check <strong>Enable SSL</strong>, you must also make sure that <strong>LDAP/AD Server URI</strong> specifies the ldaps:// protocol and SSL port (typically 636).</td>
</tr>
<tr>
<td>Search DN(s)</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Separate multiple DNs with a semi-colon (for example, ou=OrganizationalUnit;dc=domain).</td>
</tr>
<tr>
<td>Administrator Bind DN</td>
<td>Specify the distinguished name (DN) representing the login used to bind the LDAP server for searches. It can be represented in two ways:</td>
</tr>
<tr>
<td></td>
<td>• server\username</td>
</tr>
<tr>
<td></td>
<td>• cn=display name,ou=OrganizationalUnit,dc=domain</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> If your LDAP server allows anonymous searches, leave this entry blank.</td>
</tr>
<tr>
<td>Administrator Password</td>
<td>Specify the password for the login given in <strong>Administrator Bind DN</strong> above.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> If your LDAP server allows anonymous searches, leave this entry blank.</td>
</tr>
</tbody>
</table>
5. Enable the following settings as necessary:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bind Users</td>
<td>Check this setting to have users authenticated and bound to the LDAP Server. ny requests received are not trusted and require full authentication.</td>
</tr>
<tr>
<td>Prepend Windows Domain Name to User UD</td>
<td>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.</td>
</tr>
<tr>
<td>Follow LDAP Referrals</td>
<td>Check this setting, unless your LDAP/AD server specifically requires that referrals be ignored.</td>
</tr>
<tr>
<td>E-mail Address Wildcard Search</td>
<td>If you want wild cards to be used in searching, check this setting.</td>
</tr>
<tr>
<td>Prepend “smtp:” to E-Mail Address Searching</td>
<td>If you are using user email in an AD environment, check this setting.</td>
</tr>
</tbody>
</table>

6. Configure the following user-related settings:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User ID Attribute</td>
<td>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.</td>
</tr>
<tr>
<td>User Email Attribute</td>
<td>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.</td>
</tr>
<tr>
<td>User Display Name Attribute</td>
<td>Specify the LDAP/AD server attribute field containing the full display name.</td>
</tr>
<tr>
<td>User First Name Attribute</td>
<td>Specify the LDAP/AD server attribute field containing the user’s first name.</td>
</tr>
<tr>
<td>User Surname Attribute</td>
<td>Specify the LDAP/AD server attribute field containing the user’s surname or last name.</td>
</tr>
<tr>
<td>User Phone Number Attribute(s)</td>
<td>Specify the LDAP/AD server attribute field containing the user’s phone number.</td>
</tr>
</tbody>
</table>
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.

---

**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 PrintAnywhere email lookup services**

The following configuration provides the most commonly used configuration mode.

To configure PrintAnywhere email lookup services:

1. In the Configuration Manager, click **Advanced > Components**.

2. Click the **Configure** button adjacent the **Print Anywhere Server** component. The Print Anywhere Server (PAS) component configuration appears.

3. In the PAS component configuration, click **Integration**. The Integration tab appears.
4. From the **Integration Type** drop-down, click **User Lookup**.

5. Click **Edit**.

6. 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

7. Enter the **API Username**, **API Password**, and **API Key** created in CPS. For more information, see **Providing CPS API access for PrintAnywhere**.

8. Click **Test** and populate the supplied fields to confirm whether PrintAnywhere can successfully locate user information for email print jobs.

9. Once you have confirmed that the PrintAnywhere can successfully locate user information, click **Apply Settings** to save the settings.
Configuring PrinterOn guest printing

PrinterOn provides flexible options to allow you to configure guest printing for use alongside a print management solution.

Enabling Guest User login

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

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

2. On the Authentication tab, select LDAP/AD as your Authentication method. The LDAP/AD Settings panel appears.

<table>
<thead>
<tr>
<th>LDAP/AD Settings</th>
<th></th>
<th>Add</th>
<th>Dallee</th>
<th>Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDAP/AD Server Profiles</td>
<td>Default</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User Rules and Printer Access</td>
<td>Group</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guest Login Enabled</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trusted Application Behavior</td>
<td>Authenticated and Guest</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Authentication Enabled for</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3. In the **LPAD/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:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepend Guest User ID</td>
<td>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.</td>
</tr>
<tr>
<td>Ensure User ID is unique</td>
<td>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.</td>
</tr>
</tbody>
</table>

7. Click **Apply Settings**.
Activating a guest printer

You can configure which of your printers are classified as Guest printers.

To designate a printer as a Guest printer:

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

2. In the appropriate row, toggle the setting in the Guest column to enable guest printing for that printer.
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 printer(s) to use the feature.

To configure your PrinterOn printers to support Ricoh Streamline NX:

1. In your browser, navigate to the PrinterOn.com web admin portal at www.printeron.com/administrators.
2. Click **PrinterOn**.

   ![PrinterOn Service Icons](image)

3. Log in to the PrinterOn.com web admin portal.

   ![Login with Administrator Credentials](image)

   The **Management Home Page** appears.

4. Click the **Printers** icon.

5. Locate the printer that Ricoh Streamline NX is to be configured on, then click **Optional Settings**.

6. Enable Streamline NX integration:
   a) Locate the **Advanced Integration Options** section and check the **Enable 3rd Party Integrations** setting.
b) From the Print Management Service drop-down, select Ricoh Streamline NX Mode 1.

7. Define Streamline NX user information:
   a) Locate the Job and User Information section.
   b) From the User Identifier drop-down, select Required.
8. If the service will support release codes for any type of users, including cases where only Guest Users will receive a release codes, configure the Privacy Release code settings as follows:
   a) Locate the **Privacy Release Code** section.
   b) From the **Privacy Release Code** drop-down, select **Required**.
   c) When you select **Required**, three additional settings appear. Check each of the settings.

   ![Privacy Release Code settings](image)

   **Note:** The On-Premise Server manages providing release codes based on the desired authentication style.

9. Define the printer configuration settings:
   a) Click the **Required Settings** tab.
   b) Locate the **Printer Configuration** section.
   c) From the **Print Driver** drop-downs, select **Ricoh** and **Ricoh Universal PCL 6 v4**.

10. Select **Save** to confirm the settings.
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 necessary.

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 2 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 PJL** 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 support, you must first configure your PrinterOn printers to use the feature.

To configure your PrinterOn printers to support Equitrac secure release:

2. Click **PrinterOn**.
3. Log in to the PrinterOn.com web admin portal.

The **Management Home Page** appears.

4. Click the **Printers** icon.
5. Locate the printer that Equitrac secure release is to be configured on, then click **Optional Settings**.
6. Locate the **Advanced Integration Options** section and check the **Enable 3rd Party Integrations** setting.

7. From the **Print Management Service** drop-down, select **Equitrac – Printer Release Server**.

   Additional Integration option includes support for Xerox Standard Accounting and FujiXerox Mode1

8. Select **Save** to confirm the settings.
Configuring guest printing for common Equitrac configurations

The following describes how to integrate PrinterOn web and mobile print workflows with common Equitrac configurations, including Equitrac 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.

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**: 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:

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:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guest User ID</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Make note of the value you provide as the Guest User ID. This value must match a user account in Equitrac.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepend Guest User ID</td>
<td>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.</td>
</tr>
<tr>
<td>Ensure User ID is unique</td>
<td>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.</td>
</tr>
</tbody>
</table>

2. Click **Apply Settings**.

3. Enable Guest LDAP setting on printers you want to allow guests to print to.

4. In the Configuration Manager, click **Printers**, then configure the following setting for each guest printer:
   - Set **Privacy Release Codes** to **Disabled**.

**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:

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 Equitrac.

3. Click Apply Settings.
4. In the Configuration Manager, click Printers, then configure the following settings for each guest printer:
   - Set Privacy Release Codes to Required.
   - Enable the Auto-generate release codes setting.

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:

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 Equitrac.

3. 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.
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:

  ```text
  @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 PJL 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.
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:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guest User ID</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Make note of the value you provide as the Guest User ID. This value must match a user account in PaperCut.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepend Guest User ID</td>
<td>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.</td>
</tr>
<tr>
<td>Ensure User ID is unique</td>
<td>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.</td>
</tr>
</tbody>
</table>

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 Equitrac.

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 dropdown, 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.
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 server 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**.
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.
Integrating PrinterOn with Samsung BCPS

Configuring Samsung MFP devices

To support Samsung BCPS, you must:

- Configure the PrinterOn printer settings for your Samsung MFP to correctly define user information settings and to automatically release print jobs from the PDF to the MFP.
- 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.
4. Expand the **Job and User Information** section.

<table>
<thead>
<tr>
<th>Job and User Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Identifier</td>
</tr>
<tr>
<td>Client UID</td>
</tr>
<tr>
<td>Session Meta Data</td>
</tr>
</tbody>
</table>

5. In the **User Identifier** drop-down, select **Optional** or **Required**.

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

<table>
<thead>
<tr>
<th>Releasing Print Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Print Jobs</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Privacy Release Code</td>
</tr>
</tbody>
</table>

7. 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 **Samsung BCPS**.

10. 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:

1. In your browser, enter the Device IP address in the address bar. The SWS Login screen appears.
2. Login using your 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 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
Integrating PrinterOn with Samsung Secure Release

- 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:

- Configure the PrinterOn printer settings for your Samsung MFP to enable release codes and to automatically release print jobs from the PDF to the MFP.
- 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.

![Configuration Manager](image-url)
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 use numbered release codes
   - Auto-generate release codes

8. Locate and check Enable 3rd Party Integration.


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 your 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.
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.
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.

![Job Information](image)

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.

Web Services configuration requirements

To fully enable Ricoh User Code support, the PrinterOn Virtual Printers must be configured to enable the feature.
To configure your PrinterOn printers to support Ricoh User Codes:

1. In your browser, navigate to the PrinterOn.com web admin portal at www.printeron.com/administrators.

2. Click PrinterOn.

3. Log in to the PrinterOn.com web admin portal.

   The Management Home Page appears.

4. Click the Printers icon.

5. Locate the printer for which you want to enable Ricoh User Codes, then click Optional Settings.

6. Enable Ricoh User Codes:
   a) Locate the Advanced Integration Options section and check the Enable 3rd Party Integrations setting.
Integrating PrinterOn with Ricoh User Codes

b) From the Print Management Service drop-down, select Ricoh User Codes.

7. Define Ricoh User Code user information:
   a) Locate the Job and User Information section.
   b) From the Client UI drop-down, select Required, then in the adjacent text field, enter User Codes.

Configuring the Ricoh MFP

To configure the Ricoh 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.
4. On the Change User page, locate the Authentication Information section and associate a user code with the user.

5. Click OK to save the settings. The new user is added to 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:
Configuring PrintAnywhere to use CPS authentication management

When using an authentication scheme such as LDAP, the PrinterOn Server performs authentication validation on behalf of mobile application users. Print requests submitted from mobile applications that use PrinterOn’s Document API must first communicate with the PrinterOn Server prior to delivering the print request to PrintAnywhere. This workflow allows the PrinterOn Server to validate a user’s authentication credentials.

To enable this workflow, you must configure PrintAnywhere to allow CPS to manage user authentication. When this option is disabled, users must always provide their authentication credentials before submitting a print job.

**Note:** This is the default configuration for the PrinterOn Server. Changes may not be required.

The following configuration will provide the most commonly used configuration mode. Additional details that may pertain to your configuration are available in the PrintAnywhere Administrator Guide.

To configure PrintAnywhere to use CPS authentication management:

1. In the Configuration Manager, click *Advanced* > *Components*.
2. Click the *Configure* button adjacent the *PrintAnywhere* component. The PrintAnywhere Server (PAS) component configuration appears.
3. Click **Networking**. The Networking tab appears.

![Networking tab](image)

4. In the Status Server section, check **Allow CPS to Manage Authentication**.

5. Click **Apply Settings** to save the configuration.
Providing CPS API access for PrintAnywhere

PrintAnywhere requires permission to request user information. To enable it to request user information, you must configure PrintAnywhere as a valid user of the CPS API, with the appropriate access rights and credentials.

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.
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
   PrintAnywhere 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.
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.
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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