



PrinterOn PrintWhere

User and Administrator Guide

Version 6.0.1



mobile printing solutions | enterprise | education | public printing locations

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1

Getting started with PrintWhere

PrintWhere[®] is a universal Windows print driver that lets you print to any PrinterOn registered printer to which you have access directly from any Windows application.

PrintWhere appears as just another printer that you can choose when you print from any Windows application. However, rather than pointing to a single printer as most printer drivers do, PrintWhere acts as a gateway to the PrinterOn Directory of printers.

You can quickly choose and print to a previously selected printer, or you can search for and connect to a new printer, with no need to install additional printer drivers. Because PrintWhere ties into the PrinterOn service, you can connect and print to printers even when they are not on your local network.

The PrintWhere printing process

In Windows, PrintWhere appears as any other printer. Just like any printer, you can click **File > Print** and select PrintWhere. Unlike other printers, however, PrintWhere allows you to print to any accessible PrinterOn printer, whether on your local network, or on a remote network.

If an administrator has not already defined a default printer for you, you'll need to locate and printer before you can successfully print.

You can select a printer at any time, either from the PrintWhere Printer Manager, or during the printing process. Once you associate PrintWhere with a destination printer, you can submit a print job.

When you submit a print job to a printer using the PrintWhere driver, PrintWhere renders the content and passes it on to the PrinterOn service, which then forwards the content to the destination printer. The PrinterOn service can be the publicly hosted service at printeron.com, which allows you to search all PrinterOn registered printers worldwide; or it can be an on-premise version of PrinterOn Enterprise/Express, which restricts your search to those printers within your organization.

PrintWhere monitors the print job and notifies you of changes in its status.

System requirements

PrintWhere has the following system requirements:

- Windows 7 or later
- 2GB RAM
- 1GB free disk space (more may be required if a large number of printer drivers are downloaded)

If you are using PrintWhere LE, in addition to the above requirements, you must also install the necessary print drivers on your computer. PrintWhere LE does not install any default drivers.

Downloading and installing the PrintWhere universal driver

Before you can print with PrintWhere, you need to download and install it.

- [Downloading the installer](#)
- [Installing the PrintWhere universal driver](#)

Downloading the installer

You can download the installer from the [PrinterOn.com website](#). You can install one of two editions of the PrintWhere software:

- **PrintWhere:** The full version PrintWhere, which is installed with several generic print drivers.
- **PrintWhere LE:** A light version of PrintWhere, which is installed without any print drivers. PrintWhere LE requires that you have the print drivers you will be using already installed on your computer. Otherwise, PrintWhere LE is identical to the full version of PrintWhere.

Note: If you use PrintWhere LE with PrinterOn Hosted or with a hybrid deployment of PrinterOn, the printer drivers are downloaded automatically the first time you select a printer, if they don't already exist on the computer.

Installing the PrintWhere universal driver

To install the PrintWhere driver:

1. Run the installer (PWhere.exe or PrintWhereLE.exe).
2. Accept the license agreement, and complete the installation.
3. Restart the computer.

PrintWhere installed components

Once installed, the PrintWhere software includes the following components:

- **PrintWhere Printer Manager:** Lets you locate and select printers registered with PrinterOn. For more information, see [Locating and selecting printers](#).
- **Delivery Options dialog:** Lets you to confirm the destination of your print and review the details of your print job details. Unless you disable it, this dialog appears every time you submit a print job. For more information, see [Confirming your print job](#).
- **Printer Properties dialog:** Lets you configure printing options to define the print output, PrintWhere behavior, and network communication. For more information, see [Configuring PrintWhere printing options](#).

- **PrintWhere Router:** Lets you monitor and manage the status of your print requests as they are delivered to the specified printers. For more information, see [Monitoring and managing print requests](#).
- **PrintWhere printer drivers:** Generic printer drivers which PrintWhere uses to communicate with the destination printer. The generic printer drivers installed with PrintWhere can communicate with most printers.

Updating PrintWhere

To ensure that you have the latest PrintWhere features, PrintWhere alerts you when a new version is available on our web site.

To upgrade PrintWhere:

1. When prompted by PrintWhere to upgrade, click **Yes**.
2. To open the PrinterOn Download page if a newer version exists, click the **Upgrade now!** link.

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Printing with PrintWhere

You print to the PrintWhere driver using the standard Windows printing workflow (typically, **File > Print**).

You can locate and choose your printer at the time of printing. If you need to change your printer for any reason, you can locate and choose another printer from the PrinterOn Directory at any time. The most recently used printer is always selected by default the next time you submit a print job.

To print using the PrintWhere Printer Driver:

1. In your Windows application, select **File > Print**.
2. In the Print dialog, choose **PrintWhere 6.0** as your printer.
3. [Modify the printing preferences](#) as necessary. The Printing Properties dialog allows you to:
 - change your printer and view detailed printer and printer location information
 - set paper and duplex settings
 - define PrinterOn system-specific settings and provide account information.
4. Click **Print**.
5. If the Delivery Options dialog appears, [confirm the delivery options](#), then click **OK**.

Note: If you receive a release code, take care to make note of it. You may need this code to release your print job at the printer.

6. If necessary, provide any additional required input, such as authentication credentials or payment information. PrintWhere prompts you for any additional input.

Note: In some cases, PrintWhere may redirect you to a browser form to authenticate against an Identity Management Service. You will be unable to interact with PrintWhere while it awaits confirmation that you were successfully authenticated.

If you fail to authenticate within a designated timeout period, the print request fails, and PrintWhere becomes active again.

In rare cases, authentication may fail even after you receive a message indicating you have successfully authenticated. This is typically due to a network issue blocking a necessary second communication with the authentication server.

7. If necessary, release the job to the printer using the release code that was provided in the Delivery Options dialog.

Once the job is submitted, you can [monitor your print job](#) to view the status, pause, resume, restart, or cancel it.

Confirming your print job

The Delivery Options dialog lets you to confirm the destination of your print and review the details of your print job details. Unless you disable it, this dialog appears every time you submit a print job. The Delivery Options dialog displays up to three tabs:

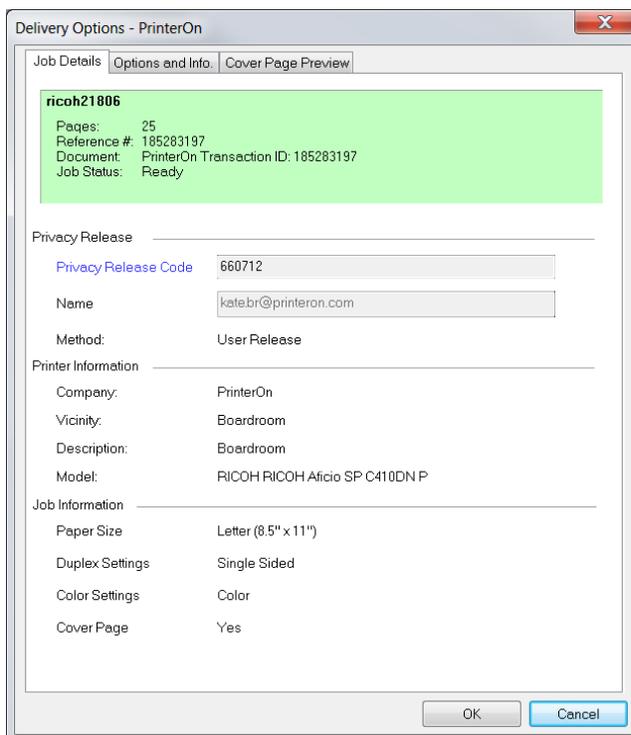
- **Job Details:** Displays information about the job, including job summary, release information, printer information, and the selected print options for the job. For more information, see [Viewing job details](#).
- **Options and Info:** Lets you enter information to be added to a print job's cover page, if enabled, and provides additional instructions or important information supplied by the printer owner. For more information, see [Adding cover page information](#).
- **Cover Page Preview:** Displayed only when a cover page is added to the print job, this tab lets you preview the content of the cover page.

Viewing job details

The **Job Details** tab of the Delivery Options dialog displays information about the print job.

The job summary highlighted at the top of the tab displays the printer name, the number of pages, the unique reference number of the print job (for tracking purposes) and the type and name of the document. The **Job Status** field indicates the progress of the job processing. Once the document is ready, you can click **OK**.

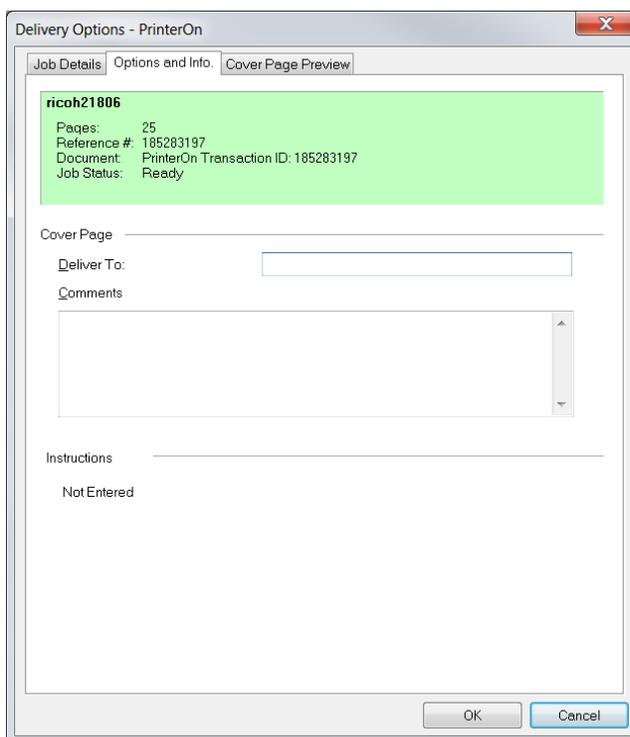
Note: A Ready status does not indicate that the physical print device is operating correctly; it indicates that the PrinterOn server can accept and hold the job prior to releasing to the print device.



Section	Description
Privacy Release	Displays the secure Privacy Release Code for the job. Depending on your destination printer, you may be prompted to enter this information before the job is printed, or it may be generated automatically for you.
Printer Information	Displays a summary of the selected printer for the current print request.
Job Information	Displays information about the print job and printer settings that may affect the output of the job such as Color, Paper Size, or Duplex options.

Adding cover page information

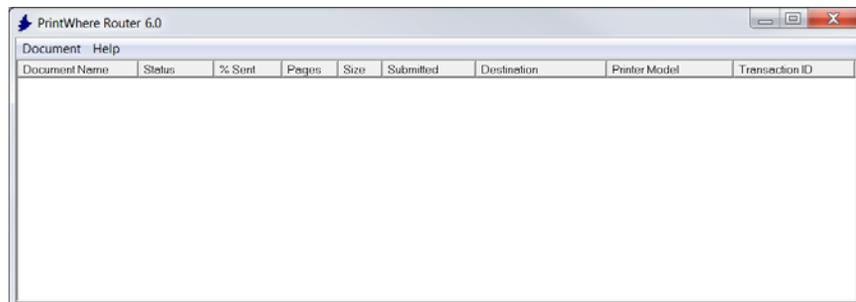
The **Options and Info** tab lets you enter information to be added to a print job's cover page, if enabled. It also provides additional instructions of important information supplied by the printer owner.



Setting	Description
Deliver To	Your name or other identification to be added to the print job's cover page to identify you as the owner of the print job. This field is only enabled if a cover page is enabled for the print job.
Comments	Comments or instructions to be added to the cover page. This field is only enabled if a cover page is enabled for the print job.
Instructions	Instructions supplied by the printer owner for users. For example, the printer owner may provide details about when a document can be picked up or how it can be delivered.

Monitoring and managing print requests

The PrintWhere Router window lets you monitor and manage the status of your print requests as they are delivered to the specified printers. The Router displays information about the type and size of the document sent, the printer it is being sent to after being released from the server, and the portion of the print request that has already been sent.



Note: If you shut down your computer or close the PrintWhere Router while it is sending documents, the unfinished jobs will resume automatically when you restart your computer or open the Router.

To monitor your print jobs:

1. Double-click on the  icon in your system tray.

Note: If the icon is not visible, you can launch the PrintWhere Router by double-clicking the PWRouter.exe in the PrintWhere Program Files directory.

The PrintWhere Router appears, displaying the following information for each active print request:

Column	Description
Document Name	The name of the document being transmitted. You can hide the names of your documents and replace the name in the router with the PrinterOn Transaction ID (see figure).
Status	The current delivery status of the job.
% Sent	The amount of data delivered to date.
Pages	The number of pages included in the print job.
Size	The size of the entire document (for example, 500KB).
Submitted	The date and time that the print request is made.
Destination	The PrinterOn ID of the destination printer (for example corp-acme-accounting).
Printer Model	The manufacturer's brand name for the printer (for example, HP LaserJet 2100).
Transaction ID	A unique identifier for the print request.

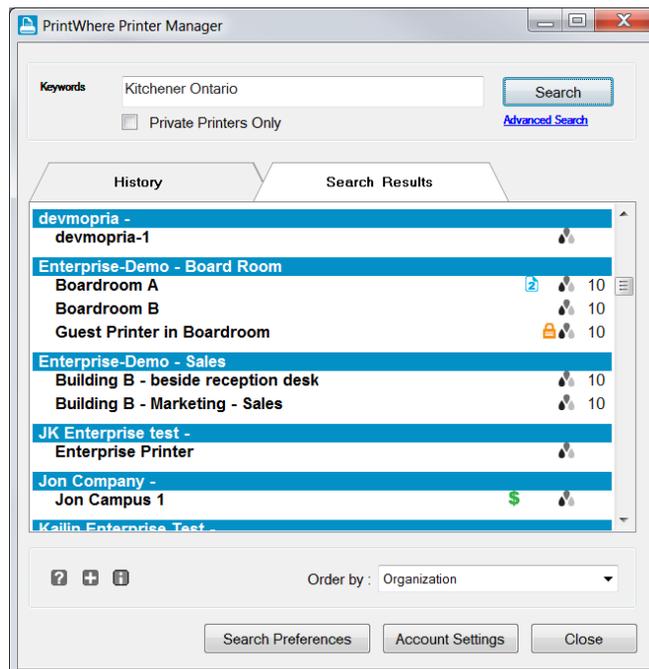
2. If necessary, select a print job, then open the Document menu and perform one of the following actions:

Action	Description
Pause	<p>Makes a print request ineligible for printing. You can pause print requests with the following status:</p> <ul style="list-style-type: none"> • Pending: The status changes to Paused, and the request is not sent to the printer until it is resumed or restarted. • Printing: The status changes to Printing–Paused. • Printing–restarting: The status changes to Printing–Pausing. <p>The router cannot pause a printing job if all the data has been transmitted.</p>
Resume	<p>Makes a paused print request eligible for printing. The print request status changes from Paused or Printing–Pausing to Pending. The print request is then eligible for printing, but may not be the next job printed.</p>
Restart	<p>Stops a print request with a status of Printing and restarts it. The function can only stop the print request if all the data has not already been transmitted. The print request returns to the Pending state. It may not be the next job printed.</p>
Cancel	<p>Deletes the selected print request from the PrintWhere Router. You can cancel print requests with the following status:</p> <ul style="list-style-type: none"> • Paused • Pending • Printing • Printing–Pausing. <p>If the router shows that the entire document has been sent, you cannot cancel the print job.</p>

3

Locating and selecting printers

PrintWhere includes a Printer Manager application to help you search for, locate, and select a printer.



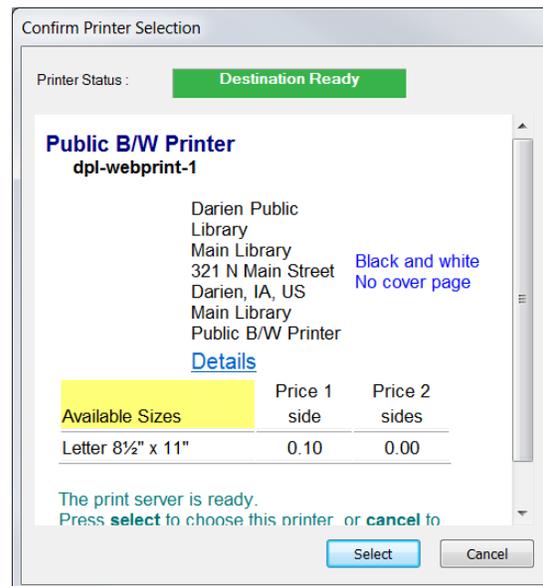
You can access the Printer Manager in a number of ways:

- Clicking **Start > PrintWhere Printer Manager**.
- Clicking  in the system tray.
- Double-clicking the desktop icon.
- Clicking **Find a Printer** from the PrintWhere Printer Preferences dialog, which you can access from any Windows Print dialog.

Discovering and selecting printers

To locate and select a printer:

1. In the PrintWhere Printer Manager window, find a printer by
 - [Performing a basic keyword search](#), which lets you search for a printer name or organization name, for example.
 - [Performing an advanced search](#), which lets you provide additional criteria to further limit the number of printers returned.
 - Clicking the **History** tab and choosing a previously selected printer from the list.
2. When you find the printer you want, select it, then click **OK**. The Confirm Printer Selection dialog appears.



Note: Click **Details** to get additional information about the printer.

3. Once the **Printer Status** changes to **Destination Ready**, click **Select**.

PrintWhere updates your printer selection. The printer is also added to the History list. This printer will be used by default next time you print from your applications.

Performing a basic keyword search

A basic keyword search lets you search the PrinterOn Directory based on one or more keywords you provide.

Note: You can limit the number of search results that are returned by configuring search filters in the Search Preferences dialog. For example, if you provide an organization name, results are filtered to include only those printers that are registered to that organization. Search preferences are applied to every basic keyword search.

For more information, see [Configuring printer search filters](#).

To perform a keyword search:

1. Enter one or more keywords in the **Keywords** field.



Note: If you are using PrinterOn Enterprise/Express, you can return all available printers by leaving the **Keywords** field empty.

2. If you want to limit the search results to printers that require your authentication credentials, check **Private Printers Only**.

Note: If you check **Private Printers Only**, you must specify your access credentials in the Search Preferences for the Printer Manager to return any results. For more information, see [Accessing secured printers](#).

3. Click **Search**. The Printer Manager queries the PrinterOn directory and displays results in the **Search Results** tab.

Performing an advanced search

The Advanced Search dialog lets you be more specific about your search criteria, so that you can restrict which printers are returned in your search results.

Note: An advanced search ignores any preferences that you have specified in the Search Preferences dialog.

To perform an advanced search.

1. In the PrintWhere Printer Manager, click **Advanced**. The Advanced Search dialog appears.

2. Use the **Category** selection to limit the type of printers to include in a search request. Options include:

Category Type	Description
All	Any printer in the PrinterOn Directory.
Public	Printers that are available to the general public.
Organization	Printers that are part of a PrinterOn Enterprise or PrinterOn Business service.

3. Select which printing features you want your destination printer to have.

Feature	Description
Paper	The paper size you want to print to.
Duplex	The duplex option you want to use.
Privacy	Whether the printer should require you to enter a release code before the job is printed.
Color	Whether the printer should support color or only Black and White.

4. Enter search criteria that will be used to filter search results based on the information supplied.

Criteria	Description
Keywords	One or more descriptive words to search for.
Organization	The name of an organization or company, as configured in the PrinterOn Directory, that the printer must belong to.
City	The city name where the printer must be located.
State	The state or province where the printer must be located.
Country	The country in which the printer must be located.
Private Printers Only	When checked, search results only include printers that have control access, and are accessible using the Account Information supplied in the Search Preferences dialog. For more information on specifying account information, see Accessing secured printers .

Managing printer lists

The Printer Manager lets you:

- specify how to [sort printers](#) in the History and Search Results printer lists.
- [clear the History list](#).

Sorting printers

For the printers listed in the History and Search tabs, you can sort your printers in a number of ways.

To sort printers:

1. From the **Order By** drop-down, choose how printers are sorted:

Setting	Description
Most Recently Used	Displays the printers in the History tab in the order they were used. This is the default.
Organization	Lists the printers alphabetically according to the name of the organization that owns the printer.
Printer Name	Lists the printers alphabetically according to the name of the printer.
Price	Lists the printers according to the cost of printing, from lowest to highest. Free printers are listed first.
Allowed Pages	Lists the printers according to the number of pages you are allowed to print. If no number is present, there is no limit.

Clearing the History list

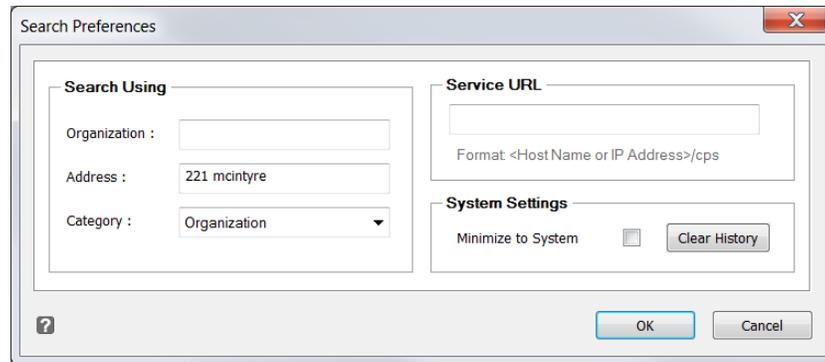
The History tab displays a list of printers that you have previously selected. You can clear this list of all printers.

To clear the History list.

1. In the PrintWhere Printer Manager, click **Search Preferences**.
2. In the PrintWhere Search Preferences dialog, click **Clear History**.
3. On the Confirmation dialog, click **OK**.
4. Click **OK**.

Setting printer search preferences

Clicking **Search Preferences** in the Printer Manager displays the Search Preferences dialog.



This dialog lets you manage various search settings. From this dialog, you can:

- [Define search filter criteria.](#)
- [Specify a different service URL to search a private printer directory.](#)

Configuring printer search filters

Because the PrinterOn Directory contains every printer registered with PrinterOn, certain keywords may yield a very large number of printers. To restrict search results without performing an advanced search every time, the Search Preferences dialog lets you configure some basic filters to narrow the list of search results to a more manageable number.

For example, to restrict the results to your organization, you can provide the organization name. In a multinational organization, you could further restrict results to a particular geographic location. The information you supply in PrintWhere is compared to the information that was configured by the printer owner or administrator.

Filter settings are applied to every basic keyword search. You can override the filter settings by performing an advanced search.

To set printer search filters:

1. In the PrintWhere Printer Manager window, click **Search Preferences**.

- In the **Search Using** section of the Search Preferences dialog, define your filter criteria:

Filter	Description
Organization	The name of a company, as provided in the Printer Listings.
Address	Any part of address information (state, city, street, zip code, etc.) that you provided in your Printer Listings
Category	The type of PrinterOn printer to filter. Options include All printers, PrinterOn Public printers and printers within your Organization. Organization printers include PrinterOn Business or PrinterOn Enterprise printers

Accessing secured printers

If you have permission to use secured printers, you must provide the necessary [service URL](#) and [account information](#) to allow PrintWhere to search for and access them. A secured printer might be:

- a private printer within an enterprise that is only accessible to users within the firewall
- a public printer with restricted access, such as a printer at a hotel that is available only to hotel guests

Note: If PrintWhere was configured for you by an administrator, it may not be possible to change your Service URL or account information without their assistance.

Setting a custom service URL

The Service URL identifies the address of the PrinterOn service that hosts the PrinterOn Directory of printers, which PrintWhere searches to locate printers that match your criteria.

By default, PrintWhere searches the public directory hosted at printeron.com, which contains all registered PrinterOn printers worldwide. However, organizations with an on-premise solution, such as PrinterOn Enterprise or PrinterOn Express, maintain a private directory of their own printers.

If your organization has an on-premise installation, this value must be explicitly set and must match the Service URL that the PrinterOn Server uses so you can search your private PrinterOn Directory for your organization's printers. An administrator may have pre-defined this value for you. If it has not already been set, you must manually configure this value yourself.

When configured, PrintWhere will use the Service URL for all communication with the PrinterOn server, including:

- Searching for printers
- Delivering print jobs to destination printers
- Reporting and logging
- Retrieving printer configuration information

If you need to locate a public printer (for example, if you are traveling and need to use a hotel printer), you can clear your private Service URL and access the public PrinterOn Directory to search for and locate the printer at your hotel. You must make sure you reconfigure your private Service URL when you're back on your organization's network.

Note: Only printers that are associated with the currently specified Service URL are accessible. If you select a printer from the public Service URL, then change to a private Service URL, you can no longer print to the printer associated with the public Service URL.

To set a custom URL to support an on-premise version of PrinterOn:

1. In the PrintWhere Printer Manager window, click **Search Preferences**.

2. In the **Service URL** section of the Search Preferences dialog, enter the host name or IP address of the server hosting your PrinterOn service.
3. Click **OK**.

Providing account information

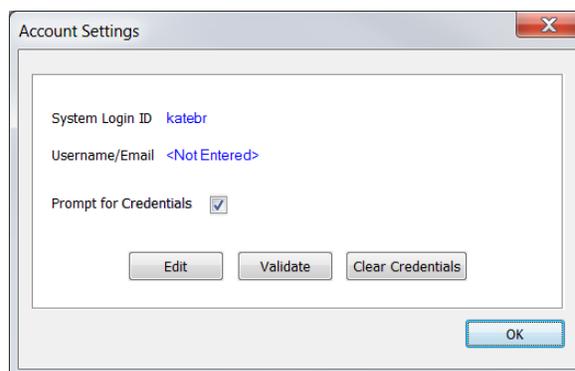
Use of some printers may be restricted. Depending on the how access to the printer is configured, different account information may be required:

- In some print workflows, you may be required to supply your Windows account information to submit a print job. PrintWhere automatically extracts your username and includes this information with print jobs when required. The **System Login ID** value indicates the operating system defined login identifier for jobs.
- Some workflows may be configured to use a corporate LDAP/AD server or some other Identity Management Service for access control. In this case, you must provide the credentials for that server/service. You can provide your account information in the **Account Settings** dialog, and PrintWhere will pass those credentials to the authentication service on your behalf.

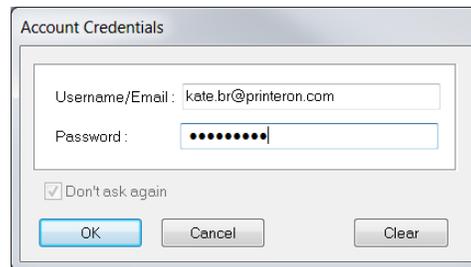
Note: If you are using PrinterOn Enterprise or PrinterOn Express, you **must** enter the PrinterOn Server's Service URL before you provide your user credentials. When you provide user credentials, PrintWhere immediately tries to contact the PrinterOn Server to validate them. Without the Service URL, PrintWhere can't contact the server and validation fails.

To provide your user credentials:

1. In the PrintWhere Printer Manager window, click **Account Settings**. The Account Settings dialog appears.



2. Under Account Settings, click **Edit**. The Account Credentials dialog appears.



3. Enter your **Username** and **Password**.
4. Click **OK**.
5. To make sure you entered your account information correctly, click **Validate** to validate your credentials against the server.

Note: If you are using PrintWhere in a public environment, such as a kiosk, you should clear your User Information at the end of your session. For more information, see [Clearing the current account information](#).

6. Click **OK** to close the **Account Settings**.

Clearing the current account information

If you are using PrintWhere in a public environment, such as a kiosk, you should clear your account information at the end of your session.

1. In the PrintWhere Printer Manager window, click **Account Settings**.
2. In the Account Settings dialog, click **Clear Credentials**.
3. Click **OK** to return to the PrintWhere Printer Manager.

4

Configuring PrintWhere printing options

PrintWhere lets you configure a number of printing options to define the print output, PrintWhere behavior, and network communication.

To configure PrintWhere printing options:

1. Open the PrintWhere Printing Properties dialog:
 - In the Windows Printers folder, right-click **PrintWhere <version>** and select **Printing Preferences**.
 - From the application's Print window, select **PrintWhere <version>** as your printer, then click the **Preferences** or **Printer Properties** button.

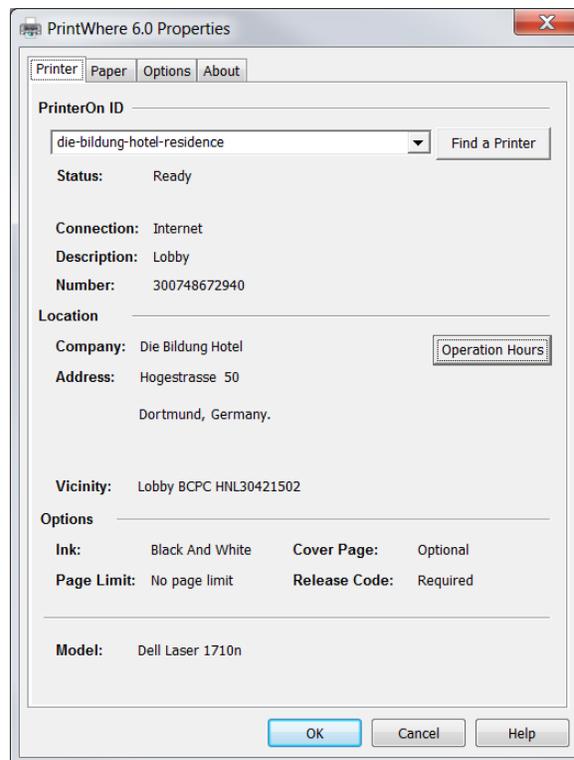
Note: When using the Chrome browser, you must select **Print using system dialog** to be able to access the Printing Properties.

Note: When choosing PrintWhere as your printer, make sure you choose **PrintWhere <version>**. *Do not* choose **PrintWhere <version> Plug-in nnnn**. This plug-in is merely an artifact PrintWhere creates to contain the specific printer driver required for a previously selected printer.

2. Configure the settings on the following tabs:
 - **Printer:** Specifies the destination printer and printer details. You can also change the destination printer from this tab.
 - **Paper:** Specifies a number of basic page setup options.
 - **Options:** Specifies additional [PrintWhere settings](#) or [network communication settings](#).
3. Click **OK**.

Viewing printer information

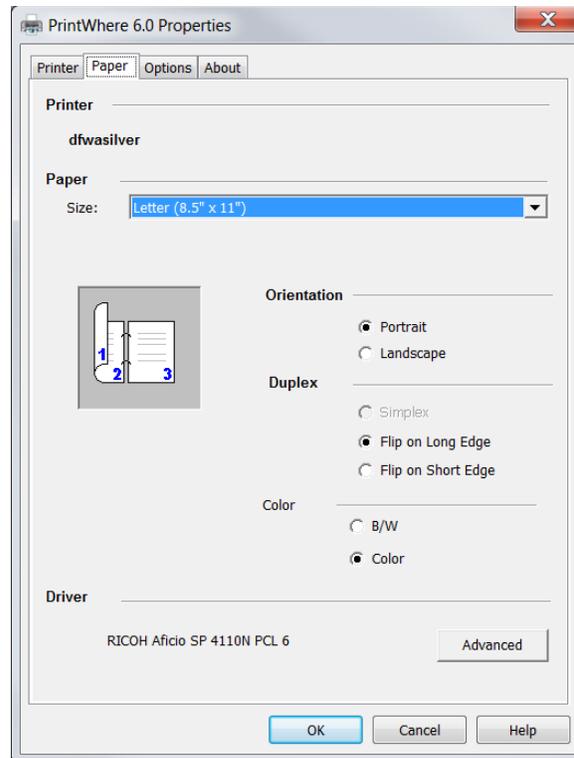
The **Printer** tab provides information about the printer you are sending your document to. This tab also lets you select a previous printer, or access the Printer Manager to choose a new printer.



Setting	Description
Printer	Specifies the destination printer. To change the printer: <ul style="list-style-type: none"> • Manually enter the PrinterOn ID or Printer Number. • Select a recently used printer from the drop-down list. • Click Find a Printer to open the Printer Manager and search for a printer in the Directory. For more information, see Locating and selecting printers.
Status	Indicates whether the printer is Online and ready to be used, or Offline for maintenance.
Connection	Indicates whether the printer is located on the Internet or on a local network.
Company	The name of the company who owns the printer, as described by the administrator in the printer's Directory listing.
Vicinity	The specific location of the printer, such as 'Front Desk' or 'Accounting department'.
Description	A brief description of the printer, provided by the printer administrator. The description may explain what kind of printer it is, how the printer can be accessed, or how should be used. For example, the description might read Color laser or Release Code required for document pick up .
Options	Describes any restrictions on printing, such as the maximum number of pages, or whether color printing is permitted.
Model	The manufacturer, make and model of the printer.
Details	When clicked, opens the Printer Details window, which provides a complete description of the printer as provided by the printer owner. This additional information may include such information as duplexing options or pricing information.

Configuring paper settings

The **Paper** tab lets you specify a number of basic page setup options.



To modify the PrintWhere options:

1. In the PrintWhere Properties dialog, click the **Paper** tab.
2. From the **Size** drop-down, choose the size of the paper you want to print to.

Note: The owner of the printer specifies which paper sizes are supported. If the printer owner has not specified any paper sizes, the default is Letter (8 1/2 x 11 in).

Your paper size choices are limited to this list as dictated by the printer owner. Although the Advanced properties dialog may offer additional paper sizes, if those additional paper sizes are not enabled by the printer owner, PrintWhere cannot print to them.

3. Specify whether to print the document in **Landscape** or **Portrait** orientation.

4. If enabled, choose a duplex option. Choices vary depending on which options the printer owner configured for the printer. Duplex options can include:
 - Single Sided Only (Simplex)
 - Double Sided Only (Duplex)
 - Default to Single Sided: When duplex is also available, but is not selected.
 - Default to Double Sided: When simplex is also available, but is not selected.
 - Not Managed: The printer owner has placed no restrictions on the Duplex feature. Depending on the printer, duplexing may be still available in the Advanced printer driver properties.
5. Specify whether you want to print in color or in black and white.
6. To modify other available printer driver properties, click **Advanced**. Depending on the print data generator associated with the printer, various additional options may be available.

Note: In some cases, the PrintWhere Paper settings may override similar printer driver properties.

Configuring the Options tab

From the **Options** tab, you can:

- [configure PrintWhere workflow and behavior.](#)
- [configure network communication settings.](#)
- [change your account information.](#)

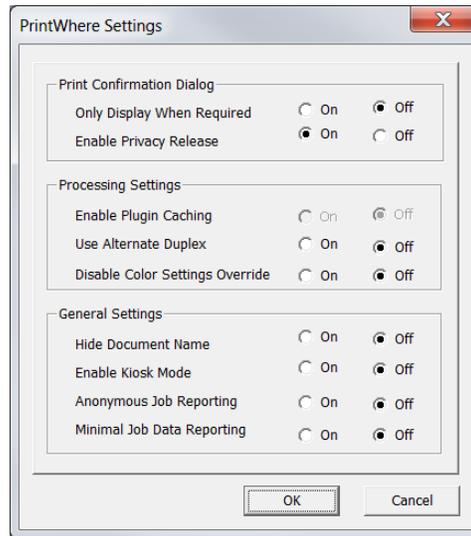
Setting PrintWhere workflow and behavior

PrintWhere provides a number of options that allow you to customize your print workflow or to provide compatibility with certain printers. These options do not generally need to be modified.

To modify the PrintWhere options:

1. In the PrintWhere Properties dialog, click the **Options** tab.

- Click the **PrintWhere Settings** button. The PrintWhere settings dialog appears.



Settings are organized into three sections:

Section	Description
Print Confirmation Dialog	Define the behavior of the confirmation dialog that displayed by PrintWhere during the print process.
Processing Settings	Define the behavior of PrintWhere when configuring or processing print jobs.
General Settings	Define general PrintWhere behavior.

- Configure the settings as necessary, then click **OK**.

Print Confirmation Dialog settings

The following settings affect the behavior of the confirmation dialog presented by PrintWhere during the print process.

Setting	Description
Only Display When Required	When enabled, the Print Confirmation dialog only appears if user input is required.

Setting	Description
Enable Privacy Release Confirmation	When enabled, a reminder message appears when the printer requires a release code to access a print job. The prompt is displayed after accepting and closing the confirmation dialog.
Allow non-PrinterOn Drivers	<p>When enabled, PrintWhere searches the local PC for a compatible print driver before downloading components from the PrinterOn web services.</p> <p>PrintWhere is capable of downloading additional driver components to support a particular printer. When you select a new printer, PrintWhere can check whether the print driver is already installed on the PC.</p>

Job Processing Settings

The following settings affect the behavior of PrintWhere when configuring or processing print jobs.

Settings	Description
Enable Plugin Caching	<p>When Enable Plugin Caching is enabled, PrintWhere maintains multiple PrintWhere printer plugins.</p> <p>You cannot change this setting. If necessary, an administrator can update the registry to enable plugin caching. For more information, see Enabling plugin caching.</p>
Use Alternate Duplex	<p>When enabled, PrintWhere uses alternate duplex options.</p> <p>In many environments, PrintWhere informs the printer whether to print a print job as duplex and uses the most compatible solution to provide duplex options. If you encounter problems receiving duplex output, you can try the alternate duplex options.</p> <p>This option should only be changed if you are encountering problems printing.</p>

Settings	Description
Disable Color Setting Override	<p>By default, PrintWhere attempts to override the color settings for printers to obey the values entered by the printer owner. If you encounter problems printing B&W output to a color printer or vice-versa, disabling this option may improve output.</p> <p>This option should only be changed if you are encountering problems printing.</p>

General Settings

The following settings affect the overall behavior of PrintWhere when printing.

Setting	Description
Hide Document Name	When enabled, the name of the document is replaced by the unique reference number for the print request.
Enable Kiosk Mode	When enabled, PrintWhere doesn't store user or account information entered by the user. This is recommended when deploying PrintWhere in a public location or kiosk.
Anonymous Job Reporting	When enabled, PrintWhere removes all user identifying information that may be reported to PrinterOn. Information included in reports to PrinterOn is typically used to provide auditing or tracking services for the printer owner.
Minimal Job Data Reporting	<p>When enabled, PrintWhere removes document related information sent to PrinterOn. This includes information such as file sizes and file extensions.</p> <p>Note: The information supplied when this option is not enabled is used for analytic purposes only.</p>

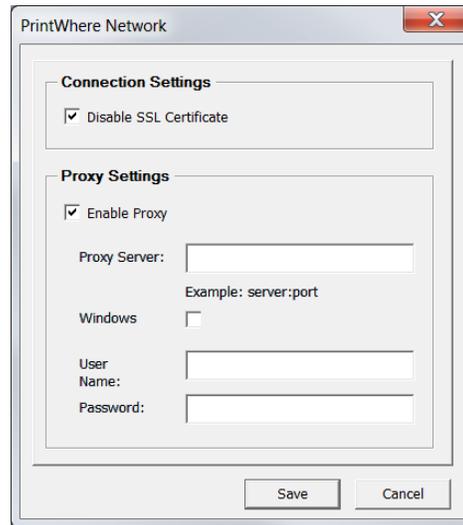
Configuring SSL and proxy server settings

If your environment requires the use of a proxy server or self-signed certificates for facilitating secure communication, you may need to configure network settings so that PrintWhere can successfully deliver print jobs to the printer.

To configure network settings:

1. In the PrintWhere Properties dialog, click the **Options** tab.

- Click the **Network Settings** button. The Network Settings dialog appears.



- To enable PrintWhere to communicate with services that use self-signed certificates for HTTPS communication, check **Disable SSL Certificate**.
- If your PrinterOn configuration uses a proxy server, check **Enable Proxy**, then configure the following proxy server settings:

Setting	Description
Proxy Server	The proxy server address used by PrintWhere. Include the server IP/address and the port number in this field (for example, 192.168.1.1:800).
Windows NTLM	When checked, PrintWhere uses NTLM for proxy authentication. Otherwise, PrintWhere uses Basic proxy authentication.
User Name	The login/username to use when authenticating against the proxy server.
Password	The password to use when authenticating against the proxy server.

- Click **OK**.

A

Glossary of terms

Cover Page

An option set by the printer owner that determines whether or not the user will be required to print a cover page. By default, cover pages include: the printer address, the sender's name, the reference number of the print request, and the number of pages. Users can add the recipient name and additional comments when they send their documents.

Encryption

Encryption is the translation of data into a secret code. Encryption is the most effective way to achieve data security. To read an encrypted file, you must have access to a secret key or password that enables you to decrypt it.

PrinterOn uses public-key, or asymmetric, encryption, a cryptographic system that uses two keys: a public key, known to everyone; and a private or secret key, known only to the recipient of the message. When John wants to send a secure message to Jane, he uses Jane's public key to encrypt the message. Jane then uses her private key to decrypt it.

An important element of the public key system is that only the public key can be used to encrypt messages and only the corresponding private key can be used to decrypt them. Moreover, it is virtually impossible to deduce the private key if you know the public key. Public-key systems are becoming popular for transmitting information via the Internet. They are extremely secure and relatively simple to use.

The setting is also determined by whether the printer owner has attached the printer to a Print Delivery Station server and how the encryption setting in the server is configured. If the printer or server at the other end of the transmission does not support our encryption service, the print request will be sent unencrypted.

When you confirm your print job prior to printing, the Job Information tab describes the encryption setting, which will use one of the following labels: **None, Not supported by destination, Enable.**

Internet Protocol

Internet Protocol (IP) specifies the format of packets, also called datagrams, and the addressing scheme. Most networks combine IP with a higher-level protocol called Transport Control Protocol (TCP) which establishes a virtual connection between a destination and a source.

IP Address

This is the unique Internet Protocol address for a device on the Internet, identifying the network and device transmitting the information. Usually expressed as four decimal numbers, IP addresses can either be static, or randomly assigned from one session to the next.

IPP/Internet Printing

The Internet Print Protocol (IPP) is a sanctioned Internet Engineering Task Force (IETF) standard for printing documents over the web. IPP defines basic handshaking and communication methods, but does not enforce the format of the print data stream. Typically, a standard page description language, such as HP PCL or Adobe PostScript, would be used.

Printer Number

A Printer Number is a unique 12 digit number people can use to find your printer in the PrinterOn Directory. Every printer added to the PrinterOn Directory is given a Printer Number to make it easy for people using mobile devices, such as cellular phones or tablets, to find and use a printer. A Printer number follows the format: ###-###-###-### or #####.

PrinterOn ID

A unique, logical printer address that will be used to access the printer in the Printer Directory from PrinterOn products and services. The PrinterOn ID is a fixed address that is used to identify the printer, enabling you to change the physical location, or even the make and model of your printer.

Privacy Settings

A description in the PrintWhere Job Information tab that explains how the print job will be released to the user. The printer may be operated by an attendant, the print job may be released automatically, or the print job may require the user to enter information to release the print job.

Service URL

The Service URL is the location of your PrinterOn service. PrintWhere connects to this URL to access the PrinterOn directory. The Service URL also manages all printing communication; PrintWhere submits print jobs to the PrinterOn service URL, which then forwards the job to the destination printer.

By default, PrintWhere points to the Service URL for PrinterOn Hosted, which is publicly available to all PrinterOn users. You may need to change the Service URL the PrintWhere connects to, however. If your organization hosts its own PrinterOn Enterprise or PrinterOn Express solution, you should modify the URL to point to your private PrinterOn service.

URI

Uniform Resource Identifier, the generic term for all types of names and addresses that refer to objects on the World Wide Web. A URL is one kind of URI.

B

Configuring PrintWhere for Citrix or shared terminal environments

Administrators can deploy PrinterOn in environments where multiple users are accessing printing services through a single server or terminal. For example:

- **Citrix environments:** In these environments, a central Citrix server is used to provide employees with remote access to network printers no matter where they may be: at the office; at home; or at a public printing location, such as an airport or library
- **Shared terminal environments:** In these environments (for example, a public printing kiosk), a single computer is used to access printing services, but each user logs in under their own account.

In each of these cases, installing and configuring the PrintWhere software to access the printing infrastructure is essentially the same.

Using PrinterOn with Citrix

PrinterOn can be used with Citrix in a couple of scenarios:

- **In mobile environments,** where the Citrix Receiver mobile app is used to access a server-based desktop environment, PrinterOn's network infrastructure can be used to deliver the print data across disparate networks. PrinterOn's PrintWhere driver is used to deliver print data from the Citrix server to the remote print location.

- **On Windows desktop computers**, PrintWhere provides native **File > Print** capability from any application. Typically, Citrix users are only able to print to the printers directly connected to the Citrix server. Through PrintWhere, users are able to search for and print to all enabled enterprise printers without being connected to the network or having particular print drivers installed. This gives employees remote access to enterprise printers no matter where they may be.

To enable printing from Citrix, administrators must enable employees to access PrintWhere from their Citrix sessions. This appendix describes how to provide users with the access they need.

Citrix server configuration

The PrinterOn PrintWhere driver requires the following software:

- Citrix XenApp 6.5 or later
- Windows 2008 r2 x64 or later
- Windows 2012 r2 x64 or later

The server is part of a workgroup. PrinterOn services must be installed on a single server. PrintWhere is installed for multiple users on the farm node.

In addition, to allow users to access the PrintWhere documentation, you should ensure that the Microsoft XPS Viewer is installed on your server.

Installing PrintWhere in your environment

To install PrintWhere:

1. Download the PrintWhere installer from the PrinterOn website at www.printeron.com/support/downloads.html.
2. On the farm node, click on **Start > All Programs > Accessories**.
3. In the **Accessories** folder, right-click on **Command Prompt**, and select **Run as administrator**.
4. In the Administrator: Command Prompt window, type:

```
change user /install.
```
5. From the command prompt, type `PWhere.exe` to launch the PrintWhere installer.

6. Follow the installation instructions.

Configuring the central computer to use PrintWhere

To avoid issues and ensure that users can print, administrators should pre-install necessary printer drivers on the computer. An administrator should install, configure, and print to each device prior enabling users. After the administrator has printed once, subsequent users can use the service without additional rights.

Configuring the user's computers

To ensure that users avoid issues using PrintWhere, administrators must modify the Windows Registry on the shared terminal accessed by users, or in a Citrix environment, on each user's computer locally, to complete the following tasks:

- [Enable plugin caching](#)
- [Suppress Interactive Service Messages](#)

In addition, if you intend to create and use a ExternalConfig.xml file to configure PrintWhere settings for users, the XML file must be added to every user's account, even when those users are using the same shared terminal.

For more information about creating an external configuration file, see [Creating an XML configuration file](#).

Enabling plugin caching

With PrintWhere, when a user changes a destination printer, PrintWhere adds a helper printer object to the computer, referred to as a PrintWhere plugin. This plugin provides the computer access to the required printer driver. By default, to minimize its presence on the computer, PrintWhere uses only one plugin at a time. Whenever a user selects a different printer, PrintWhere removes the existing plugin and adds a new one.

To make these changes to the system, PrintWhere requires the user to have permission to change printers and set the drivers. If the user does not have

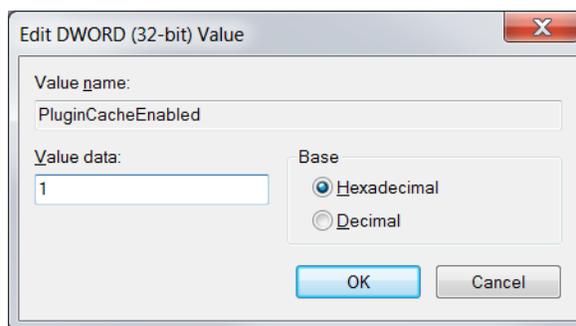
permission to install drivers, then errors occur which can prevent the user from printing.

Plugin caching allows PrintWhere to maintain multiple plugins so that they don't need to be removed and added every time the user selects a different printer. This approach allows users who cannot add new printers to work around their limited permissions. Users can move between the printers previously configured by the Administrator, since, from the system's perspective, PrintWhere remains the selected destination printer.

Note: A user with administrator privileges **MUST** install the necessary drivers prior to providing the service to users with less privileges. For more information, see [Configuring the central computer to use PrintWhere](#).

To enable plugin caching:

1. Open the Windows Registry Editor and navigate to the following Registry location:
HKEY_LOCAL_MACHINE\Software\PrinterOn Corporation\PrintWhere <version>
2. In the right pane of the registry window, right-click and select **New > DWORD value**. The new value is added to the registry, with the name editable.
3. Change the value name to PluginCacheEnabled.
4. Right-click **PluginCacheEnabled** and click **Modify**. The Edit DWORD Value dialog appears.



5. Set the **Value data** to 1.
6. Close the Registry Editor.

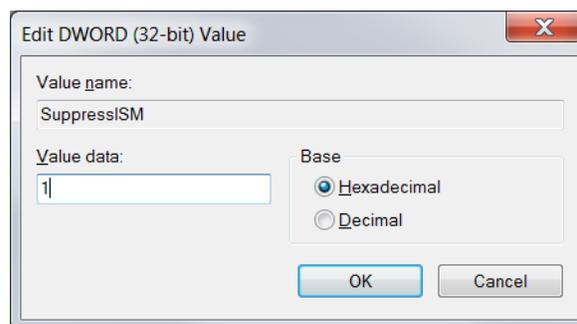
Suppressing Interactive Service Messages

Because PrintWhere plugins appear as selectable printers, users can accidentally submit print jobs to a plugin instead of to the PrintWhere driver itself. When this happens, PrintWhere attempts to display a message informing the user that the selected plugin is not a valid selection, and to choose the PrintWhere driver instead.

In rare cases, the print process uses system services, such as the print spooler, to display these messages. In cases where users do not have sufficient permissions to see these Interactive Service Messages, such as in Citrix environments, the user may not see the messages, and printing problems can occur. To avoid issues, administrators can disable Interactive Service Messages.

To disable Interactive Service Messages:

1. Open the Windows Registry Editor and navigate to the following Registry location:
HKEY_LOCAL_MACHINE\Software\PrinterOn Corporation\PrintWhere <version>
2. In the right pane of the registry window, right-click and select **New > DWORD value**. The new value is added to the registry, with the name editable.
3. Change the value name to SuppressISM.
4. Right-click **SuppressISM** and click **Modify**. The Edit DWORD Value dialog appears.



5. Set the **Value data** to 1.
6. Close the Registry Editor.



Installing and configuring PrintWhere for users

To simplify the setup process for users, PrintWhere provides methods to allow administrators to install and configure PrintWhere on users' behalf using command line installation and an external configuration.

Configuring PrintWhere for users

With external configuration, administrators can pre-define printer lists for users, preset search filters, set the service URL where PrintWhere searches for printers, and configure other settings. The first time PrintWhere is started, the options from the external configuration are loaded, so users can print with no setup at all.

External configuration of PrintWhere also allows administrators to centrally manage PrintWhere behavior and provide a consistent experience for all users.

There are two methods to allow administrators to configure PrintWhere for users:

- [Creating an XML configuration file](#)
- [Creating a PrintWhere Windows Registry key](#)

When PrintWhere is configured for them, users can still access the PrintWhere Printer Manager and Printer Properties dialogs. If users change the PrintWhere

configuration, PrintWhere checks to see if an XML configuration file or PrintWhere registry key exists, and if so, saves any changes made by the user to the external configuration.

Administrators can also lock the PrintWhere configuration, so that users cannot change it at all.

Creating an XML configuration file

You can create an XML configuration file for PrintWhere that you can distribute to users.

The XML file must be named ExternalConfig.xml, and it must be copied to the following location on the user's computer:

```
C:\Users\<user_name>\AppData\Local\PrinterOn  
Corporation\Printwhere <version>\Config\ExternalConfig.xml
```

External XML Example

The following sample XML shows the structure of the XML configuration file. For details about each of the settings, see [External configuration settings reference](#).

```
<pwcProperties propertiesVersion="1.0">  
  <search enabled="1">  
    <searchOrgName userEdit="1"/>  
    <searchAddress userEdit="1"/>  
    <siteNumberList use="optional"/>  
  </search>  
  <printerChooser sysTrayAndStartup="1" userEdit="1"/>  
  <webServiceManagerURI/>  
  <DefaultPrinterList/>  
  <lockPrinterConfig>0</lockPrinterConfig>  
  <AuthenticationMode>0</AuthenticationMode>  
  <AskForCredentialsAlways>0</AskForCredentialsAlways>  
  <OAuthBrowserTimeout>120</OAuthBrowserTimeout>  
  <serviceURL>secure1.printeron.net</serviceURL>  
  <removePrinters>0</removePrinters>  
  <siteID/>  
  <clientUID/>  
  <sessionMetaData/>  
  <OptionShowWinPrinters>1</OptionShowWinPrinters>  
  <SearchUsingPrivateURL>1</SearchUsingPrivateURL>
```

```

    <SearchCategory>All</SearchCategory>
    <PrimarySite>www.printeron.com</PrimarySite>
</pwcProperties>

```

Creating a PrintWhere Windows Registry key

Registry configuration can be managed for individual users using their standard Windows user profile locations.

The PrintWhere Registry configuration information should be put into the users Current User registry hive, at the following location:

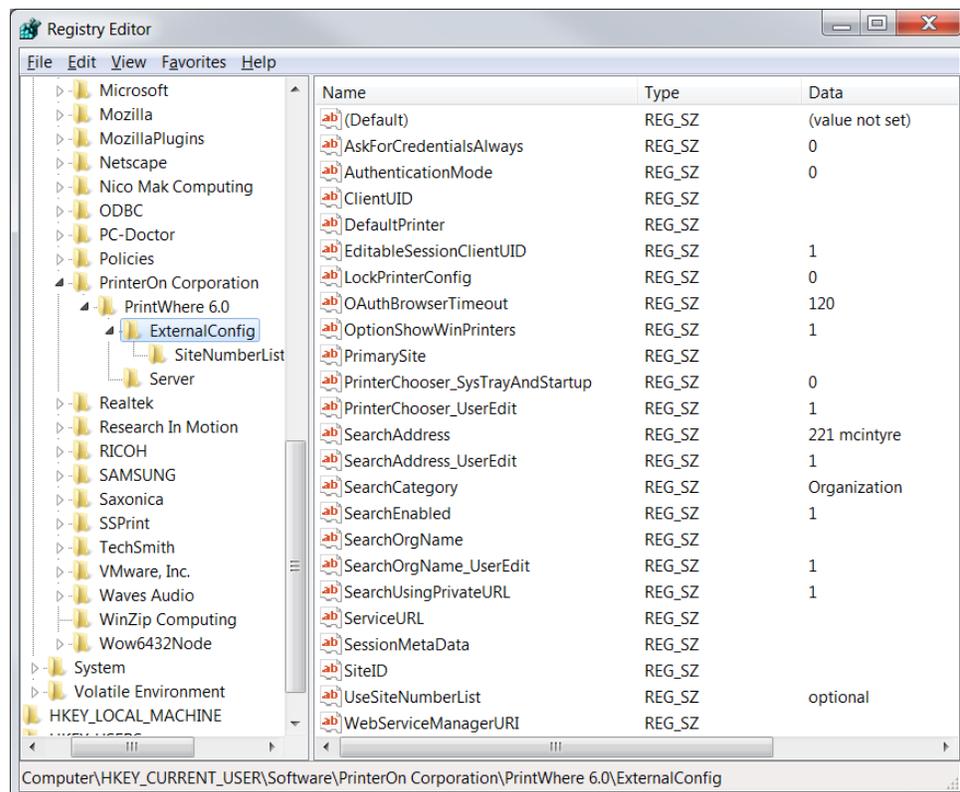
```

HKEY_CURRENT_USER\Software\PrinterOn Corporation\PrintWhere
<version>\ExternalConfig

```

Sample Registry

The following sample the structure of the PrintWhere configuration in the Windows registry. For details about each of the settings, see [External configuration settings reference](#).



External configuration priority

PrintWhere external configuration can be used alongside the Control Panel configuration options. However, only one external configuration method can be used at a time. You cannot use an XML configuration and Registry configuration at the same time.

Each time PrintWhere is launched, it checks to see if an external configuration exists, and if found, loads the specified configuration settings. PrintWhere first checks to see if ExternalConfig.xml exists. If the file is not found, it then checks for a PrintWhere entry in the Windows registry.

Upgrading an external configuration

PrintWhere supports external configuration upgrade. Older versions of PrintWhere will also be migrated from previous configuration locations in the registry to the new XML file format to support a forward migration to the new method.

If no external configuration exists, PrintWhere uses default values.

External configuration settings reference

The following sections outline the external configuration settings and permitted values.

- [AskForCredentialsAlways](#)
- [AuthenticationMode](#)
- [DefaultPrinter](#)
- [LockPrinterConfig](#)
- [OAuthBrowserTimeout](#)
- [PrimarySite](#)
- [PrinterChooser](#)
- [RemovePrinters](#)
- [Search settings](#)
- [ServiceURL](#)
- [Third-party integration settings](#)

AskForCredentialsAlways

Description Specifies whether the user must provide their credentials each time they close or minimize the Printer chooser.

XML Syntax

```
<AskForCredentialsAlways>
    value
</AskForCredentialsAlways>
```

Registry Entry AskForCredentialsAlways *value*

Values *value* can be one of:

- 0: PrinterOn asks for credentials once, and then saves them. PrinterOn does not ask for credentials again.
- 1: When the user logs off, PrintWhere clears credentials. The next time they print or access Printer Manager, PrintWhere prompts the user for their credentials. This value only applies with AuthenticationMode is set to a value of 2 or 3.

AuthenticationMode

Description Specifies the authentication mode used.

XML Syntax

```
<AuthenticationMode>
    value
</AuthenticationMode>
```

Registry Entry AuthenticationMode *value*

Values *value* can be one of:

- 0: PrintWhere does not prompt the user for their credentials, but passes on the credentials specified PrintWhere's Account Settings dialog, when required.

If the user does not provide their credentials in the Account Settings dialog, but the PrinterOn server is configured to use either LDAP/AD or Azure AD for authentication, the user will not be authenticated and all print requests are rejected.
- 1: Windows authentication is used (either the local user account, or the administrator credentials, if logged in as administrator).
- 2: The LDAP/AD or Azure AD account credentials are used.
- 3: Only the PrinterOn account username is used.

DefaultPrinter

Description Specifies a list of Default Printers. The first member of the list will be the default selected one when you use the PrinterChooser. Additional printers listed will be available from the **Printer** drop-down list in the PrintWhere Properties dialog.

Printers are displayed in the Printer Manager's History list in the order they are listed.

XML Syntax

```
<DefaultPrinterList>
  <DefaultPrinter>printer1</DefaultPrinter>
  <DefaultPrinter>printer2</DefaultPrinter>
</DefaultPrinterList>
```

Registry Entry DefaultPrinter *printer1,printer2,...*

Note: Multiple printers can be defined in a comma-separated list.

Values *printer* represents the PrinterOn printer name or printer number.

LockPrinterConfig

Description Specifies whether the printer configuration can be modified by users.

XML Syntax

```
<lockPrinterConfig>
  value
</lockPrinterConfig>
```

Registry Entry LockPrinterConfig *value*

Values *value* can be one of:

0: The user can modify the printer configuration.

1: The Printer configuration is locked and cannot be modified.

OAuthBrowserTimeout

Description Specifies the length of time PrintWhere waits for the user to authenticate against an external third-party authentication service, such as Microsoft Azure AD.

These services require PrintWhere to redirect the user to a URL hosted by the service to enter their credentials, during which time PrintWhere remains blocked. Because PrintWhere has no control over the browser session, the timeout value allows you to provide a finite amount of time before PrintWhere assumes the user did not successfully authenticate.

If PrintWhere does not receive a response that the user is successfully authenticated before the timeout, the user is informed that PrintWhere could not validate the account, and PrintWhere becomes unblocked.

The default timeout is two minutes.

XML Syntax

```
<OAuthBrowserTimeout>
    integer
</OAuthBrowserTimeout>
```

Registry Entries OAuthBrowserTimeout *value*

Values *integer* is the length of time, in seconds before PrintWhere aborts the authentication process.

PrimarySite

Description Specifies the site where the PrinterOn license is accessed. This site is also used for PrintWhere downloads. This is *not* the same as the Service URL.

XML Syntax

```
<PrimarySite>
    string
</PrimarySite>
```

Registry Entry PrimarySite *string*

Values *string* is the URL of the primary site.

PrinterChooser

- Description** Specify printer chooser settings. You can specify:
- whether PrintWhere Printer Manager icon is minimized to the system tray when closed.
 - whether the user can edit the settings in the printer chooser.

XML Syntax

```
<printerChooser
  sysTrayAndStartup="sys_value"
  userEdit="edit_value" />
```

Registry Entries PrinterChooser_SysTrayAndStartup *sys_value*
PrinterChooser_UserEdit *edit_value*

- Values** *sys_value* can be one of:
- 0: The Printer Manager is not minimized to the System Tray.
 - 1: The Printer Manager is minimized to the System Tray.
- edit_value* can be one of:
- 0: The user cannot edit the settings.
 - 1: The user can edit the settings.

RemovePrinters

- Description** Clears the list of previously selected printers whenever a new Service URL is pushed to the user.

This setting does not affect behavior when the user changes the Service URL manually in Printer Manager.

XML Syntax

```
<RemovePrinters>
  value
</RemovePrinters>
```

Registry Entry RemovePrinters *value*

- Values** *value* can be one of:
- 0: The printer list is not modified. Printers are not removed.
 - 1: The printer list is cleared. This is the default.

Search settings

Description Specify whether the user is permitted to search for printers, and defines address, category, and organization search filters. If searching is permitted and filters are defined, PrintWhere only returns printers that are located at the specified address, match the specified category, or belong to the specified organization.

You can also specify whether the user is permitted to edit the Search Address or Search Organization value.

XML Syntax

```
<search enabled="1">
  <searchAddress userEdit="value">
    addr_string
  </searchAddress>
  <searchCategory>
    cat_string
  </searchCategory>
  <searchOrganization userEdit="value">
    org_string
  </searchOrganization>
</search>
```

Registry Entries

- SearchAddress *addr_string*
- SearchAddress_UserEdit *value*
- SearchCategory *cat_string*
- SearchOrgName *org_string*
- SearchOrgName_UserEdit *value*

Values *addr_string* represents any part of an address (state, city, street, zip) defined for a printer.

cat_string is one of the following categories:

- All
- Public
- Organization

org_string represents a company name defined for a printer.

value can be one of:

- 0: The user cannot edit the filter value.
- 1: The user can edit the filter value.

ServiceURL

Description Specifies the Service URL, which identifies where the PrinterOn Service is hosted. This URL hosts the printer list that PrintWhere searches.

If you specify a Service URL value that points to a service that requires credentials, you should modify [AuthenticationMode](#) to cause PrintWhere to prompt for credentials.

XML Syntax

```
<serviceURL>
    string
</serviceURL>
```

Registry Entry ServiceURL *string*

Values *string* represents the Service URL for your PrinterOn solution.

Third-party integration settings

Description The ClientUID, SessionMetaData, and EnableSessionClientUID specify information used by some third-party integrations.

You can also specify whether the user is permitted to edit the client UID and session metadata content.

XML Syntax

```
<clientUID>
    string
</clientUID>
<sessionMetaData>
    string
</sessionMetaData>
<EnableSessionClientUID>
    value
</EnableSessionClientUID>
```

Registry Entries ClientUID *string*
SessionMetaData *string*EnableSessionClientUID *value*

Values *string* represent user information required by your third-party integration.

value can be one of:

- 0: The user cannot modify the client UID and session values.
- 1: The user can modify the client UID and session values.



Troubleshooting PrintWhere

Locating PrintWhere log files

Should you have problems printing with the PrintWhere universal printer driver, you may need to access the PrintWhere log files to help diagnose the problem.

PrintWhere saves log information to the following file:

- On Windows versions earlier than Windows 10:
C:\ProgramData\PrinterOn Corporation\PONData\Logs\
PrintWhere 6.0\PWCDRV60.log
- On Windows 10:
C:\Users\\AppData\Local\PrinterOn Corporation\
PrintWhere 6.0\PWCDRV60.log

Problems associated with the installation of PrintWhere are save to the following log file:

C:\Program Files\PrinterOn Corporation\pwcInstall60.log.

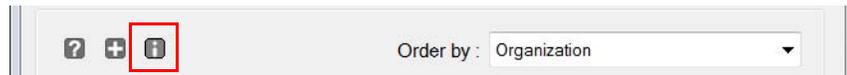
Determining which PrintWhere edition you have installed

You can determine which edition you have installed by viewing the About dialog. The About dialog displays version information about PrintWhere and lists the printer drivers that were installed with the PrintWhere software.

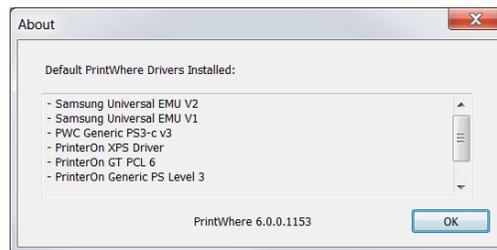
If there are no drivers listed, then PrintWhere LE was installed. Otherwise, the full version of PrintWhere was installed.

To view the About dialog:

- In the Printer Manager, click the Information icon.



The About dialog appears.



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