Google Cloud Print

Administrator's Guide

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Overview

Google Cloud Print connects your printers to the Web, letting you share your printers through a cloud print service with anyone you choose. Smartphones, tablets, Chromebooks, personal computers, or any other Web-connected device can send documents to your printers from different locations at any time. There is no limit to the number of printers that can be connected.

To use Google Cloud Print, first make sure that you have a Google account, taking note of your user name and password. Then register your cloud-enabled printer to your Google account so that the printer appears as a print option for any Web-connected device sending documents.

Any number of printers can be registered to a single account. After the printers are registered, users can begin sending documents to the printers by logging in to their Google account and selecting the printers from any Web-connected applications that support Google Cloud Print.

Your cloud-enabled printers can receive documents directly from the Web. From the printer control panel, you can log in to a registered Google account and download a print job list of current documents, and then decide which ones you would like to print, delete, or retain.

Configuring Google Cloud Print

Acquiring a Google account

Before configuring the application, make sure you have a valid Google account, taking note of your user name and password. If you do not have access to a Google account, then go to the Google Web site and create one before configuring these settings.

Customizing the display icon

1 Access the application configuration settings from the Embedded Web Server.

2 From the Configure, Profile, or Profiles page, add or edit a profile, and then change the settings if necessary:

- **Button Text** or **Text**—Type up to 20 characters that will appear above the profile button on the printer home screen. This field is optional.
- **Button Icon** or **Icon**—Browse to a new image file that represents the profile on the printer home screen. This field is optional.
- **Button Icon when pressed** or **Icon when pressed**—Browse to a new image file that will be displayed while the profile icon is being pressed. This field is optional.

  Notes:

  - For printers running the Embedded Solutions Framework (eSF) version 3.0 or later, the image should be a PNG file with a transparent background, and should measure 192 x 302 pixels. It should not exceed 11KB in size.
  - For printers running eSF version 2.0, the image should be a GIF, PNG, or JPEG file, and should measure 120 x 75 pixels.
  - For printers running eSF version 1.2, the image should be a GIF file and should measure 120 x 75 pixels.
  - If you are unsure about which version of eSF your printer is running, then see “Checking which version of the Embedded Solutions Framework is installed on a printer” on page 12.

3 Save or discard your changes.

Configuring login options

1 Access the application configuration settings from the Embedded Web Server.

2 Under the Login Options heading, specify how to authenticate users when they access the application. Do one of the following:

- If you want to use the OAuth 2.0 standard to authenticate users, then select **Enable OAuth**, and then select a function access control to use to secure access to the application.

  Notes:

  - Make sure you use the Advanced Security Setup settings (click **Settings** or **Configuration**, and then click **Security** > **Security Setup**) to set up a security template and apply it to the appropriate function access control. For information on configuring security templates and using access controls, see the *Embedded Web Server Administrator’s Guide* for your printer.

- The application does not support the PIN and the Password function access control types.

Enabling OAuth allows users to authenticate to the application without typing a Google user name and password. The first time users log in to the application using the function access control credentials, they will be prompted to connect the printer to their Google account. They can either print a page of instructions or e-mail instructions to themselves from the printer. The instructions then direct users to a Web site where they will type a code to authorize the printer to access their Google account. When this process is complete, an OAuth token is generated for the user and is stored in a secure location on the printer. Each time the user accesses the application, the token grants the application access to the user's account.

Notes:

- Up to 250 OAuth tokens can be stored on the printer. If there are 250 users registered on a printer, then each time an additional user registers, the oldest token will be removed from the printer.
- If you uninstall the application or plan to dispose of the printer, then it is recommended that you wipe all settings from the printer to remove any residual token or account information. Contact your solutions provider for assistance.

- If you want to use the ClientLogin protocol to authenticate users, then configure the “Google username” and “Google password” fields. Do one of the following:
  - Type a Google user name and password. Users will be able to access the application without typing their Google credentials.
  - Type a Google user name only. Users will be prompted to type the Google password to access the application.
  - Leave both fields cleared. Users will be prompted to type their Google user name and password to access the application.

  Notes:

  - The user name and password you type must be associated with a valid Google account. If you do not have a Google user name and password, then create a Google account before configuring these settings.
  - If **Enable OAuth** is selected, then the application ignores anything typed in the “Google username” and “Google password” fields.
  - If you are using a Google Apps account (for example, a corporate account), then you will most likely need to configure the application to use OAuth rather than the ClientLogin protocol.

3 Save or discard your changes.

Removing OAuth tokens

1 Access the application configuration settings from the Embedded Web Server.

2 Under the OAuth Token Management heading, do one or more of the following:
- To remove all OAuth tokens from this printer, select **Remove All OAuth Tokens**.
- To remove a token for a user, select **Remove User Token** and then type the user names (separated by a comma) in the field provided.
- To remove tokens that have not been used for a period of time, select **Remove inactive tokens**, and then enter the number of days (1–365) that a token may remain unused before it is removed from the printer.

  Note: “Remove inactive tokens” will delete unused tokens only at the time you applied the option to the printer. If you want to remove more tokens using this option, then you have to run it again.

3 Save or discard your changes.

Using Google Cloud Print

Note: You must have a Google account to use this application.

Connecting the printer to your Google account with OAuth

If the application is configured to use OAuth 2.0 to authenticate users, then the first time you access the application, you will be prompted to authorize the printer to access your Google account. After you touch the application icon from the home screen and the authorization screen appears, do the following:

1. Use the authorization screen to print instructions or to e-mail instructions to yourself.
2. Follow the instructions on the printout or in the e-mail to go to the Google Web site and type an authorization code.
3. Follow the Web site instructions to complete the authorization process.
4. When you are finished, touch **Next** on the printer control panel.

   The printer returns to the home screen. The next time you access the application, the printer will be connected to your Google account.

   Note: After you type the code on the Google Web site and complete the authorization process, it may take a few seconds for the printer to connect to your account. After the printer returns to the home screen, wait about 30 seconds before attempting to access the application again.

Notes:

- When the authorization screen appears on the printer control panel, go to the Google Web site and connect the printer to your account within 30 minutes. If you do not complete this process within 30 minutes, then you will need to start over from the printer.
- The authorization screen appears only if the application is configured to use OAuth from the printer Embedded Web Server. If the application is configured to use ClientLogin, then you will not be prompted to connect the printer to your account. Instead, each time you access the application, you may be prompted to type your Google password, or your Google user name and password, or you may not be prompted at all. This depends on how the ClientLogin options are configured.

Revoking access to your Google account

If you want to stop the printer from accessing your Google account, then do the following:

1. Log in to your Google account, and then access your account settings.
2. In the Security section, click **Authorizing applications & sites**.
3. Next to the application name, click **Revoke Access**.

All printers will no longer be able to access your account unless you complete the authorization process again.

Registering the printer

The first time you access the application, you may be prompted to register the printer by typing a name for the printer. This name identifies the printer to your Google account as a selection option. When the printer is registered, it is connected to your current Google account, and you will not need to register it again to that account. If a registration screen appears on the printer after you touch the application icon home screen, then do the following:

- Click **Next** to accept the default name.
- Type a name for the printer in the field, and then click **Next**.

Notes:

- The printer must be registered separately for each Google account you intend to use.
- You must register a printer to a Google account before you can select it as a print option from any Web-connected device.
- Only registered printers can receive documents from applications that support Google Cloud Print.

If you need to remove a printer from your Google account or change the registered name, then go to the Google Cloud Print Web site for your account. You need to select a printer registered to your account before you can remove or rename it.

Printing documents

From a Web-connected device, send documents to a printer registered to your Google account. This creates a print job list for that printer.

1. From the printer home screen, touch the application icon.
2. If prompted, type your Google user name, password, or both. Click **Next**.

   The application authenticates your information, and the current print job list appears.
3. Select documents to print:
   - Touch **Select All** to print all the documents in the print job list.
   - Touch **Deselect All** to print none of the documents in the print job list.
   - Select the check box for each document separately to add or remove it from the selected documents being printed.

     Note: Only documents with check marks will be printed. Documents with an empty check box will not be printed.
4. Print the documents:
   - Touch **Print** to print the selected documents and delete them from the print job list.
   - Touch **Print and Keep** to print the selected documents and retain them in the print job list.

Note: To update the print job list, touch **Refresh**.

Deleting documents

1. From the printer home screen, touch the application icon.
2. If prompted, type your Google user name, password, or both, and then click **Next**.

   The application authenticates your information, and the current print job list appears.
3. Select the documents to delete:
   - Touch **Select All** to delete all the documents in the print job list.
   - Touch **Deselect All** to delete none of the documents in the print job list.
   - Select the check box for each document you want to delete.

     Note: You can choose to show a confirmation screen before deleting documents. From the Embedded Web Server, access the application configuration settings, and then select **Always ask before deleting**.
4. Touch **Delete**.

Note: To update the print job list, touch **Refresh**.

Troubleshooting

Google Cloud Print troubleshooting

An application error has occurred

Try one or more of the following:

Check the system log

1. Obtain the printer IP address:
   - From the printer home screen
   - From the TCP/IP section in the Network/Ports menu
   - By printing a network setup page or menu settings page, and then finding the TCP/IP section

   Note: An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
2. Open a Web browser, and then type the printer IP address in the address field.

   The Embedded Web Server appears.
3. From the navigation menu on the left, click **Settings** or **Configuration**, and then do one of the following:
   - Click **Apps** > **Apps Management**.
   - Click **Device Solutions** > **Solutions (eSF)**.
   - Click **Embedded Solutions**.
4. Click the **System** tab > **Log**.
5. From the Filter menu, select an application status.
6. From the application menu, select an application, and then click **Submit**.

Adjust the scan settings

Note: This applies only to applications that support scanning.

In the application configuration settings, select a lower scan resolution. You can select **Off** or a lower resolution from the Scan Color menu.

Contact your solutions provider

If you still cannot isolate the problem, then contact your solutions provider for additional help.

License error

Try one or more of the following:

Make sure the application is licensed

Applications require a license to run.

For more information on purchasing a license, contact your sales representative.

Make sure the license is up-to-date

Make sure the license for the application has not yet expired. Check the license expiry date using the Embedded Web Server.

Application cannot authenticate user

Try one or more of the following:

Check network connections and settings

Make sure that all appropriate network cables are securely connected, and that the proxy, firewall, and other network settings are correctly configured. For information on networking the printer, see the printer *User's Guide* or the *Software and Documentation* CD that came with the printer.

Check application settings

Check whether the application is configured to use the ClientLogin protocol or the OAuth 2.0 standard to authenticate users. Make sure you type the appropriate credentials at the printer.

Make sure you specify the correct user name and password

If the application is configured to use the ClientLogin protocol to authenticate users, then make sure you type the correct Google user name and password from the application configuration settings. If you did not specify a Google password from the application configuration settings, then make sure you type the correct password at the printer.

If the application is configured to use the OAuth 2.0 standard to authenticate users, then make sure you type the correct user name and password at the printer.

Make sure your OAuth token is still active

If your OAuth token has been removed from the printer, then register your account again.

Contact your solutions provider

If you still cannot isolate the problem, then contact your solutions provider representative for additional help.

Appendix

Accessing application configuration settings using the Embedded Web Server

1 Obtain the printer IP address:
   - From the printer home screen
   - From the TCP/IP section in the Network/Ports menu
   - By printing a network setup page or menu settings page, and then finding the TCP/IP section

Note: An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.

2 Open a Web browser, and then type the printer IP address in the address field.

   The Embedded Web Server appears.

3 From the navigation menu on the left, click **Settings** or **Configuration**, and then do one of the following:
   - Click **Apps** > **Apps Management**.
   - Click **Device Solutions** > **Solutions (eSF)**.
   - Click **Embedded Solutions**.

4 From the list of installed applications, click the application you want to configure, and then click **Configure**.

Exporting and importing a configuration using the Embedded Web Server

You can export configuration settings into a text file, and then import it to apply the settings to other printers.

1 From the Embedded Web Server, click **Settings** or **Configuration**, and then do one of the following:
   - Click **Apps** > **Apps Management**.
   - Click **Device Solutions** > **Solutions (eSF)**.
   - Click **Embedded Solutions**.

2 From the list of installed applications, click the name of the application you want to configure.

3 Click **Configure**, and then do one of the following:
   - To export a configuration to a file, click **Export**, and then follow the instructions on the computer screen to save the configuration file.

     Note: If a `JVM Out of Memory` error occurs, then repeat the export process until the configuration file is saved.
   - To import a configuration from a file, click **Import**, and then browse to the saved configuration file that was exported from a previously configured printer.

     Notes:

     – Before importing the configuration file, you can choose to preview it first.
     – If a timeout occurs and a blank screen appears, then refresh the Web browser, and then click **Apply**.

Licensing applications

Applications require a valid electronic license to run on select printers.

For more information on purchasing a license for an application, or for any other licensing information, contact your sales representative.

Checking which version of the Embedded Solutions Framework is installed on a printer

1. Obtain the printer IP address:
   - From the printer home screen
   - From the TCP/IP section in the Network/Ports menu
   - By printing a network setup page or menu settings page, and then finding the TCP/IP section

   Note: An IP address appears as four sets of numbers separated by periods, such as 123.123.123.123.
2. Open a Web browser, and then type the printer IP address in the address field.
3. From the Embedded Web Server, click **Reports** > **Device Settings**.
4. Scroll down until you see “Embedded Solutions” (usually found near the bottom).
5. In the Embedded Solutions section, note the value next to “Framework =”. This signifies the installed version.

Note: To view the complete list of supported printers for each version of the Embedded Web Server, see the *Readme* file.

Notices

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