



KONICA MINOLTA

# **Google Cloud Print Setup**

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## **User's Guide**

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#### Services provided by Google

Access the following URL for services provided by Google.

This document describes Google Cloud Print.

<http://www.google.com/about/products/>

#### Google Cloud Print

Access the following URL for Google Cloud Print.

<http://www.google.com/cloudprint/learn/>

#### Summary of this application

Google Cloud Print Setup is such an application that is used to link services provided by Google Cloud Print with the MFP.

Using services provided by Google Cloud Print enables you to register a machine on the Cloud, delete a machine registered on Cloud, also enables you to check and control the service status.

#### Reminder

The dialog boxes that appear in this document may differ from those that appear on your computer and MFP, depending on the installed devices and specified settings.

The explanation of this application in this manual and all screen images are as of September, 2014.

These may be changed without prior notice.

#### Note

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## 1. Before Use

To use Google Cloud Print Setup, it is required to install an application and the supportable firmware to the MFP.

If they have not been installed, contact your service representative.

Furthermore, to use the Google Cloud Print functions, a Google account must be acquired.

### 1-1. Settings for Enabling Local Printing

When using local printing, enable the Bonjour function and set SSL Setting to "SSL/Non-SSL" for the WebDAV server function, or set to "Non-SSL Only". If the Bonjour function has been disabled, no devices will be displayed on the device list (See "2-1. Registering from Local Network").

Besides, select "No Filtering" for Quick Security Settings.

Settings described here are configured via PSWC, but it also can be configured through the administrator setting screen of this machine.

#### 1-1-1. Bonjour Settings

[Confirmation method]

1. Access PSWC ([http\(s\)://IP address of each machine](http(s)://IP address of each machine)) from the browser of the PC.
2. Sign in as an administrator, select Network -> IWS Settings, and change "OFF" to "ON" for Bonjour Settings.

#### 1-1-2. SSL Settings for WebDAV Server Function

[Confirmation method]

1. Access PSWC ([http\(s\)://IP address of each machine](http(s)://IP address of each machine)) from the browser of the PC.
2. Sign in as an administrator, select Network -> WebDAV Settings -> WebDAV Server Settings, and change "SSL Only" to "SSL/Non-SSL" or "Non-SSL Only" for SSL Settings.

#### 1-1-3. Quick Security Settings

[Confirmation method]

1. Access PSWC ([http\(s\)://IP address of each machine](http(s)://IP address of each machine)) from the browser of the PC.
2. Sign in as an administrator, and set the IP address of the terminal where local printing is to be performed in available range, or change setting to "No filtering" at Security -> Quick Security Settings -> Quick IP Filtering.

## 1-2. Web Browser Setting

Configure various Web browser settings to use the application.

Configure the settings according to the following procedures.

### 1-2-1. Proxy Setting

Configure this setting when connecting to the Google service (external) via a proxy server.

- (1) Press "Menu" key on the MFP and tap "Web Browser".
- (2) Select "Menu" – "Settings" and tap "Settings".
- (3) Enter the administrator password and tap "OK".
- (4) Tap "Proxy Settings".
- (5) Select "Use Proxy" checkbox, enter the required information and tap "OK".  
Please enter "127.0.0.1" into "No Proxy for following domain".

## 2. Device Registration

After installing the application, the device is required to be registered on the Google Cloud Print.

Registration can be made in the following two patterns.

- Registering from application
- Registering from local network

### 2-1. Registering from Local Network

- (1) Start Google Chrome from the PC, and access `chrome://devices/`.

Check that the device to be registered is displayed.

(Note)

Sign in to Google Services if it has not been done.

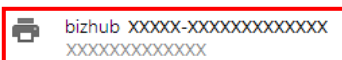
If no device is displayed, see “1-1. Settings for Enabling Local Printing”.

If the proxy setting is required, configure settings according to descriptions in “3-3-3. Proxy Setting”.

- (2) Press the “Register” button beside the device to be added.

#### Devices

##### New devices




Register

##### Classic printers

You can add classic printers connected to your computer to Google Cloud Print.

Add printers

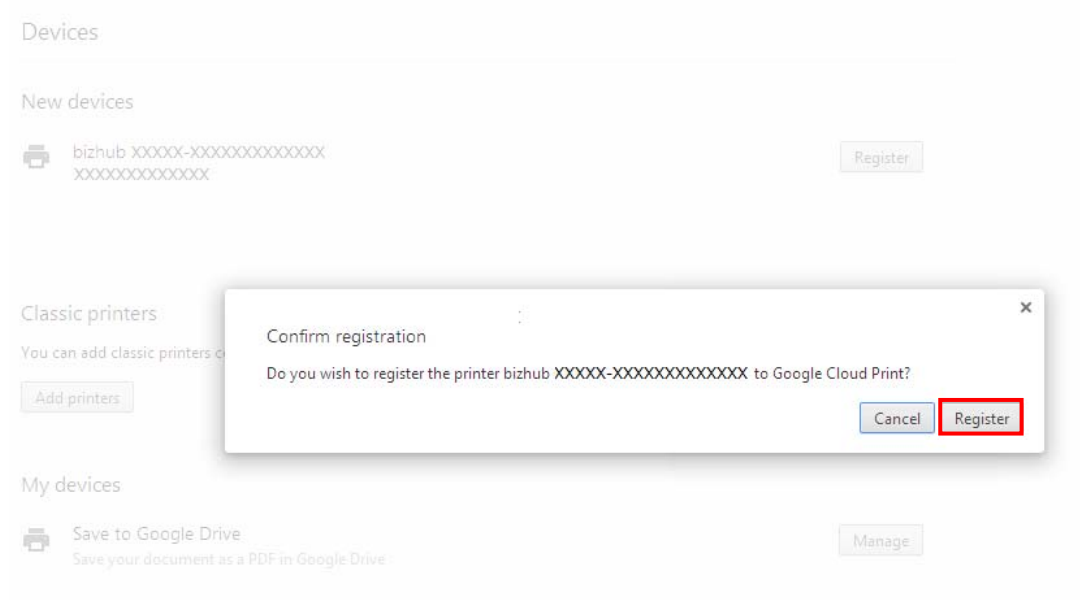
##### My devices

 Save to Google Drive  
Save your document as a PDF in Google Drive

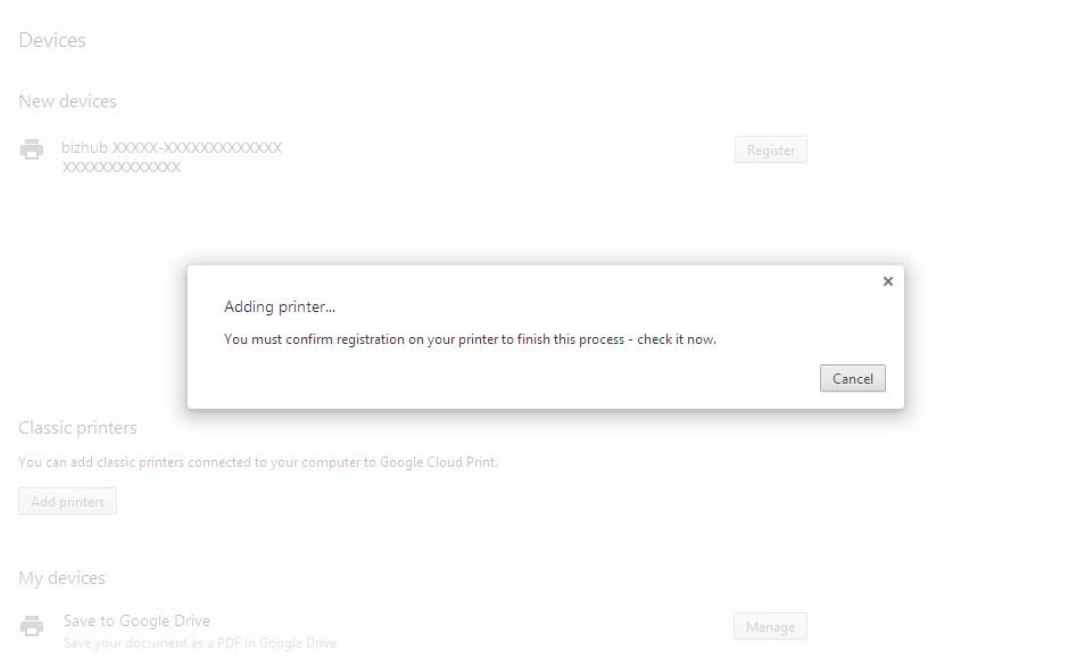
Manage

(3) When a dialog message for confirming registration appears, select “Register”.

If Google Cloud Print described in “3-3-2. Setting” is OFF, the printer is failed to be registered.



(4) Check the status when adding printer.





- (5) Start the Google Cloud Print Setup application on MFP, and tap “Setting”.

Google Cloud Print™ Setup

Status | About

Device Name                      bizhub XXXXX-XXXXXXXXXXXXX

Registration Status              Unregistered

This device is not registered to Google Cloud Print.  
Please tap “Setting” button and register this device.

Setting

- (6) Enter the administrator password registered on the MFP, then tap “Sign in”.

Google Cloud Print™ Setup

Administrator Settings | About

Password                     

Language                      English ▼

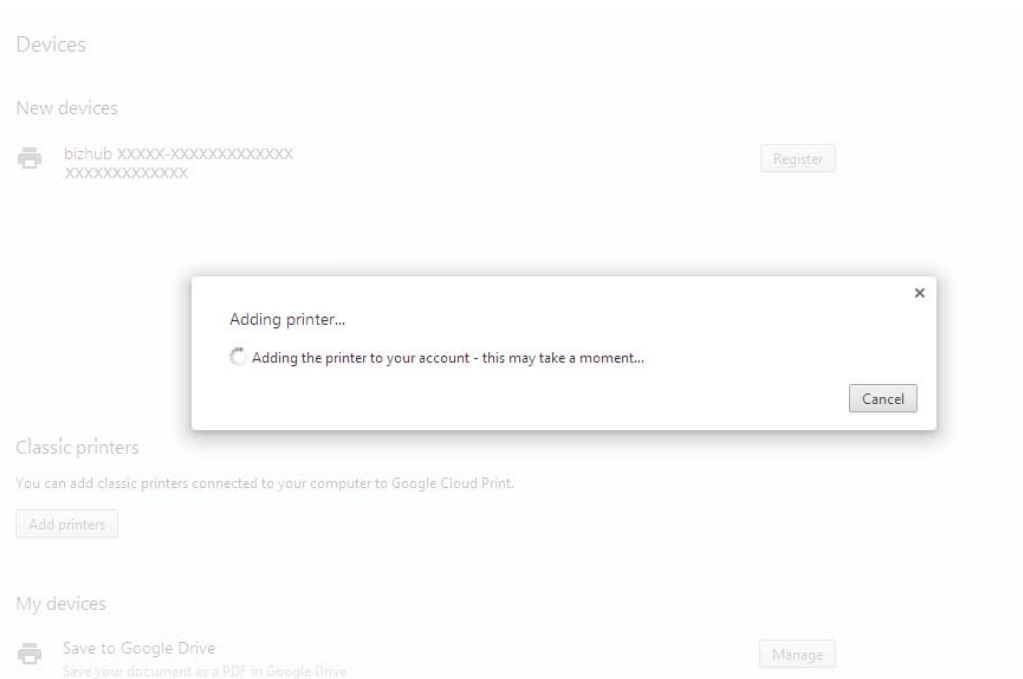
Sign in

(7) Check the account used to sign in, and tap “Approval”.



(8) Start adding printer through Google Chrome.

It may take a moment until adding starts.



(9) The device disappears from the new devices field, and the device added to my devices appears.

After that, press “Manage” to check if the desired device has been registered, then finish device registration.

Devices


New devices

Classic printers


You can add classic printers connected to your computer to Google Cloud Print.

Add printers

My devices

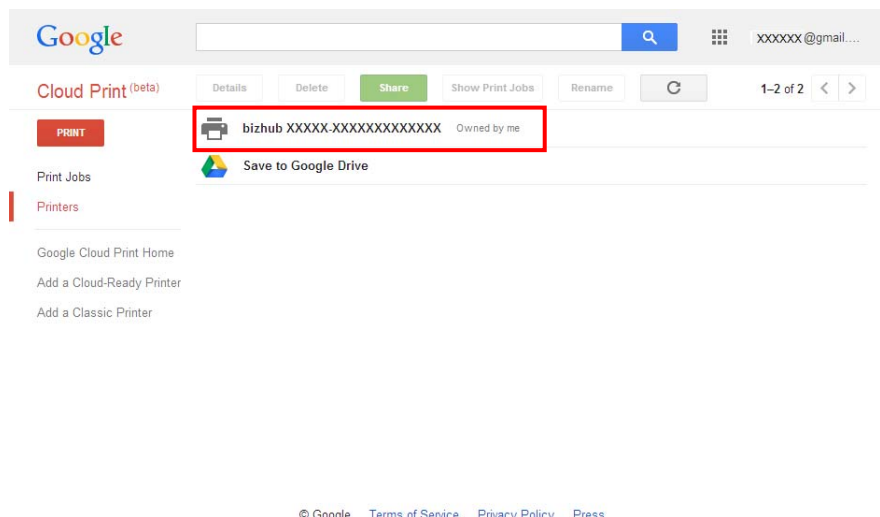
 bizhub XXXXX-XXXXXXXXXXXX  
XXXXXXXXXXXX

Manage

 Save to Google Drive  
Save your document as a PDF in Google Drive

Manage

The following screen appears after pressing the “Manage” button.



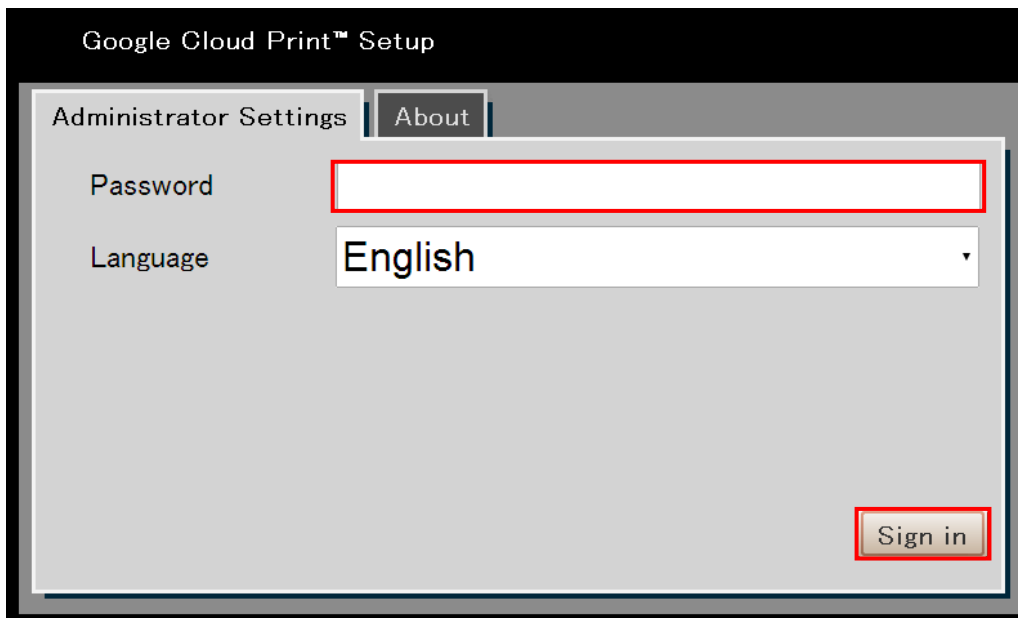
The screenshot shows the Google Cloud Print interface. At the top is the Google search bar and user profile. Below it, the 'Cloud Print (beta)' header is visible. A red box highlights a printer entry: 'bizhub XXXXX-XXXXXXXXXXXX' with the status 'Owned by me'. To the left of this entry is a 'PRINT' button. Below the printer entry is a 'Save to Google Drive' button. On the left sidebar, there are links for 'Print Jobs', 'Printers', 'Google Cloud Print Home', 'Add a Cloud-Ready Printer', and 'Add a Classic Printer'. At the bottom, there is a footer with copyright information and links to 'Terms of Service', 'Privacy Policy', and 'Press'.

## 2-2. Registering from Application

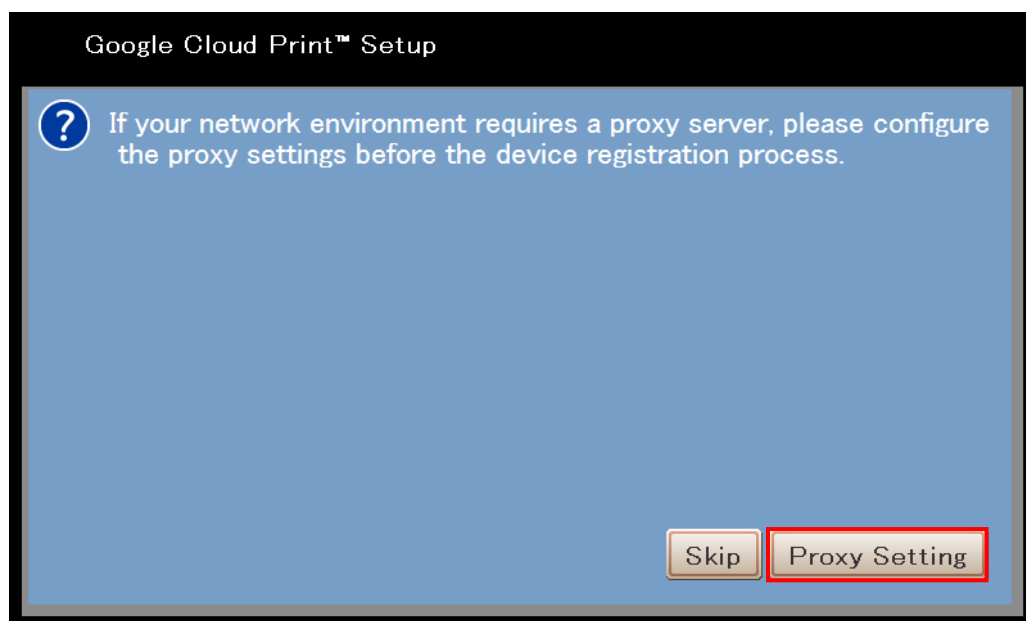
- (1) After starting application, if the device is not registered to Google Cloud Print, the following screen will be displayed.  
Tap "Setting".



- (2) Enter the administrator password registered on the MFP, then tap "Sign in".



- (3) To connect with the external Google Cloud Print through the proxy server, tap "Proxy Setting".  
If Proxy Setting is not required, tap "Skip" and go to step (6).



(Note)

Depending on the MFP and version of the application, values that have been specified in "1-2-1. Proxy Setting" will be set automatically.

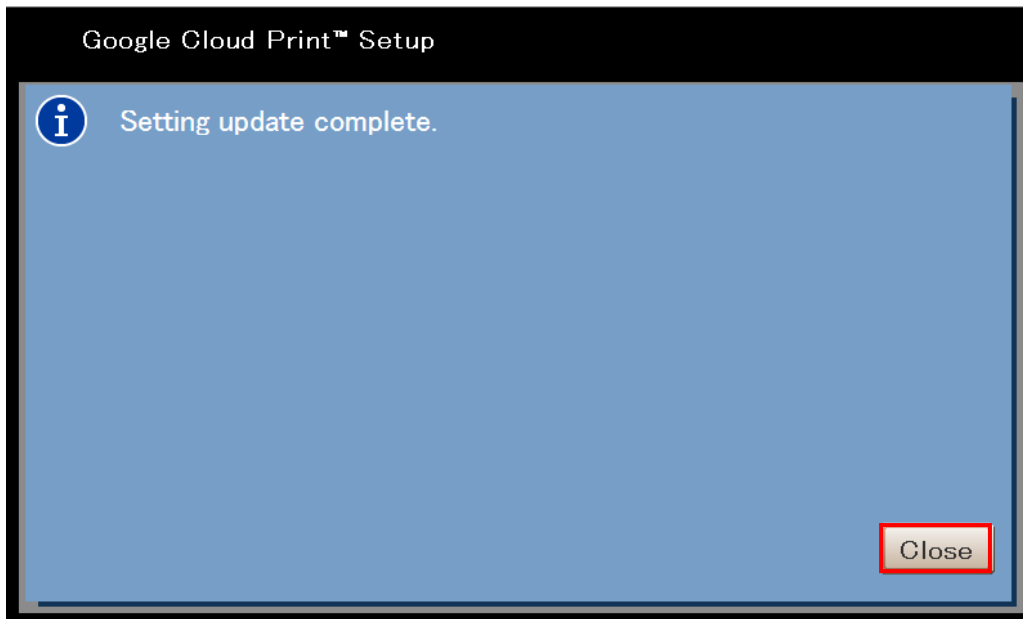
In that case, steps from (3) to (5) will be skipped so proceed to step (6).

- (4) Settings shown here are required for connecting with the external Google Cloud Print through the proxy server.

Enter the required information, then tap "Save".

If proxy authentication is required, enter the user name and password.

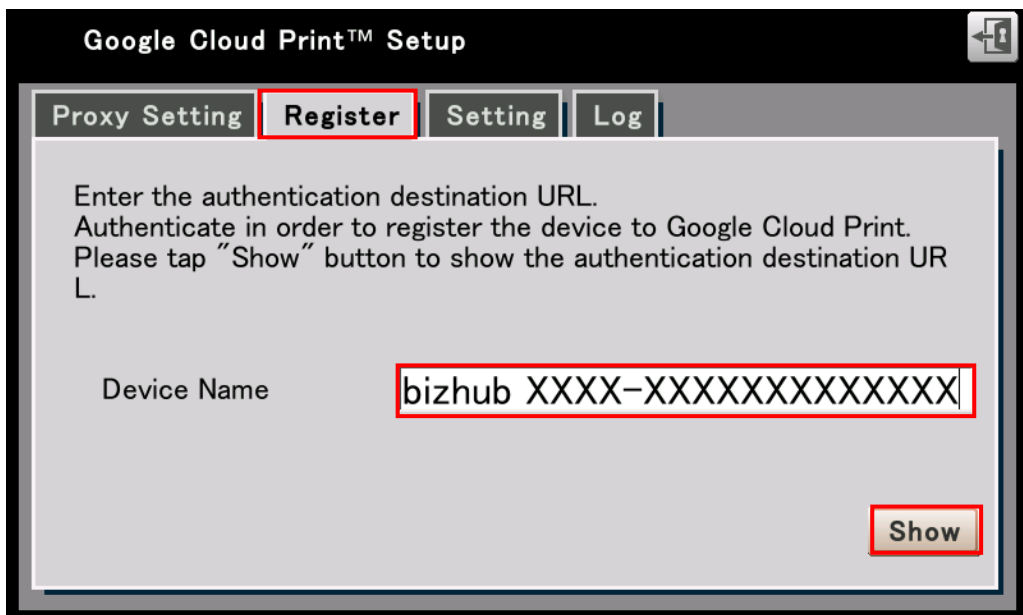
(5) The setting completion screen appears. Tap "Close".



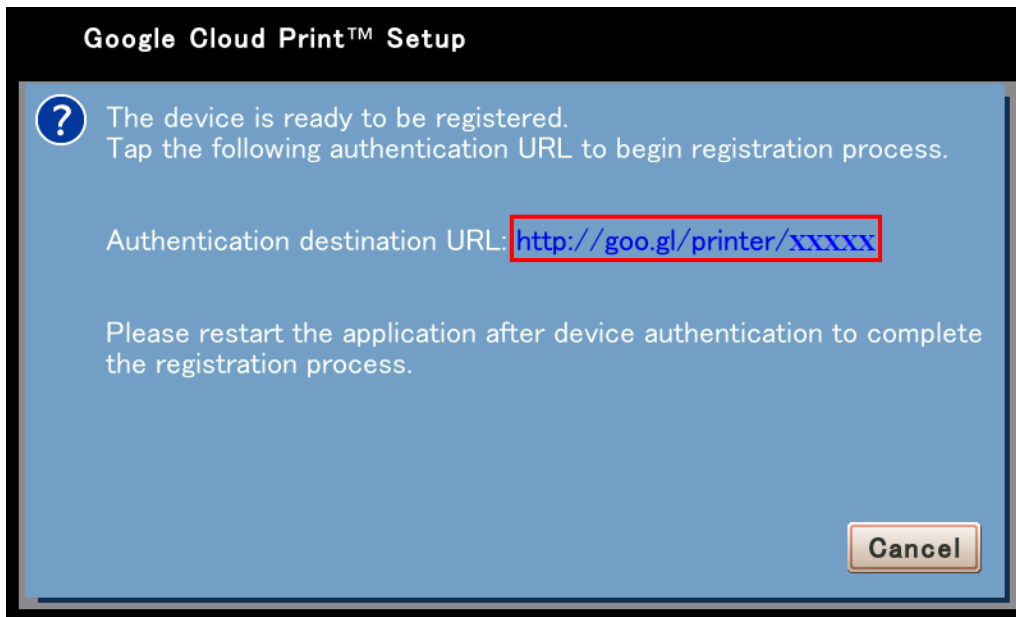
(6) Tap the "Register" tab and tap "Show" to display the Google authentication registration screen.

The device name can be edited as necessary.

If the screen is displayed after skipping Proxy Setting, the "Register" tab is selected by default.

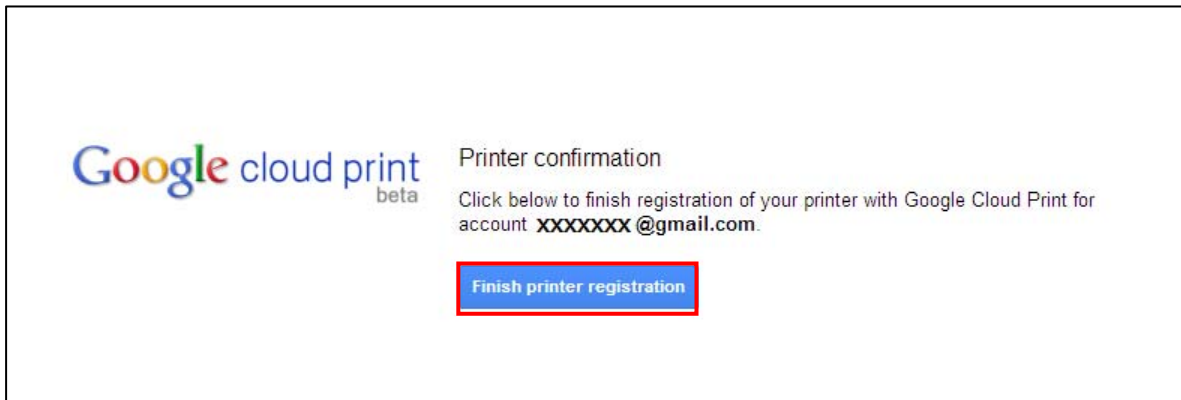


(7) Tap the authentication destination URL.



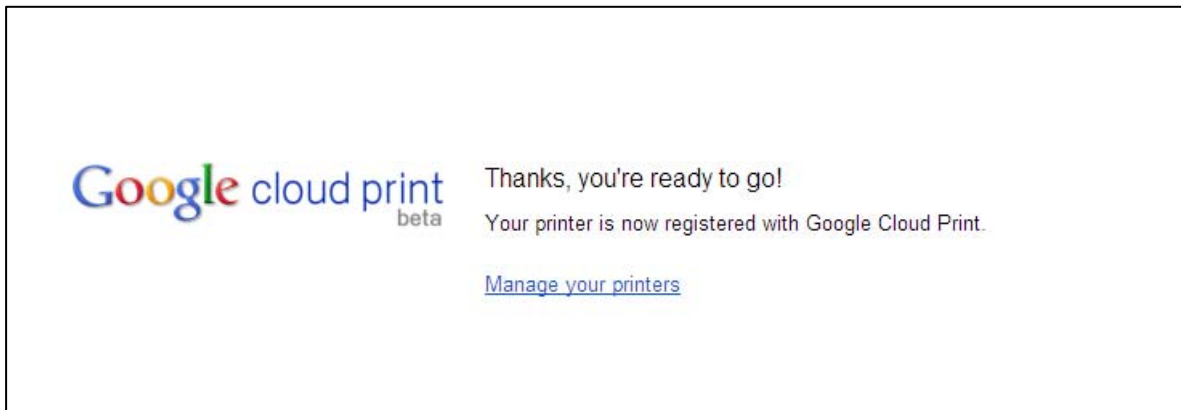
(8) Tap "Finish printer registration".

Sign in to Google Services if it has not been done.



(9) Device registration to Google Cloud Print is complete.

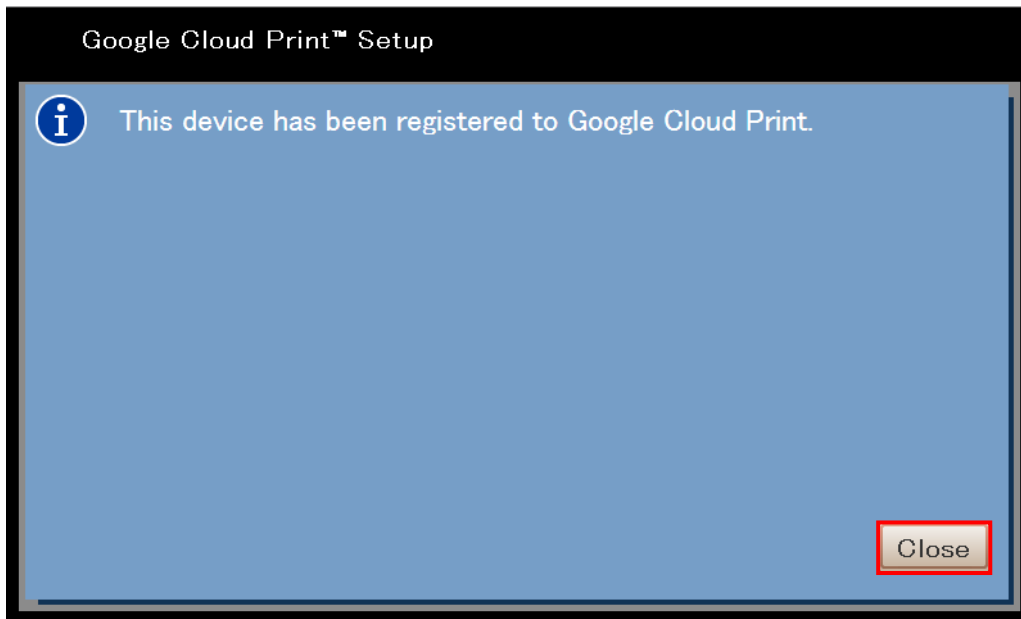
When the following screen appears, press "Menu" on this machine and restart the application from APP.





(10) After restarting the application, the following screen will be displayed.

Tap “Close” and check that the MFP has been registered.



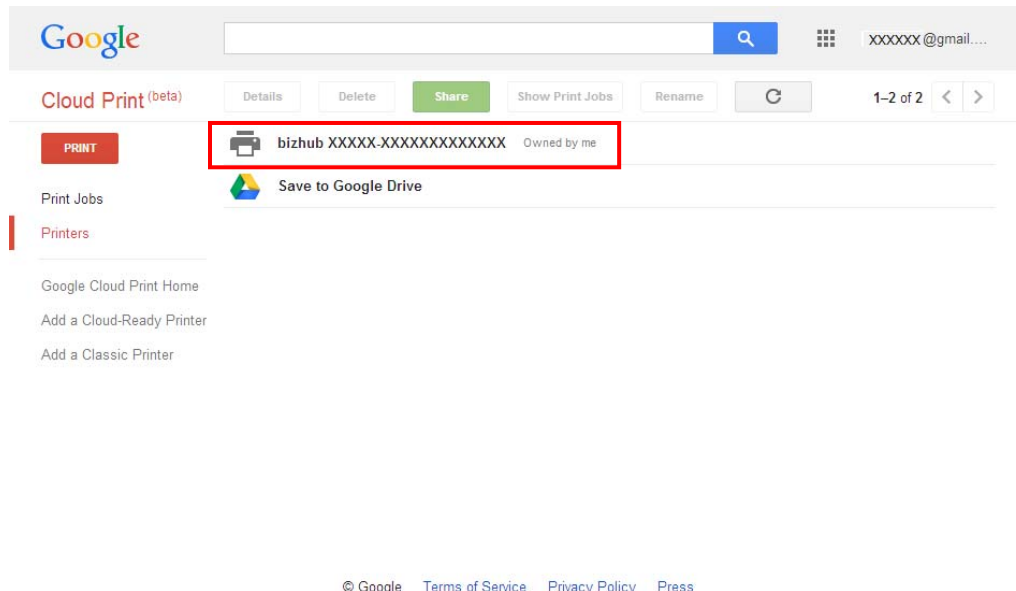
(11) When the following screen appears, the registration on MFP is complete.



(12) Start Google Chrome from the PC, access <https://www.google.com/cloudprint/>, and select a printer from the menu on the left area.

Make sure that the device has been registered, and then finish device registration.

Sign in to Google Services if it has not been done.




### 3. Operating Procedure of the Application

This chapter describes the operating procedure of the application.

#### 3-1. Confirmation of Registration Status

This is the first screen displayed after starting the application. The status of device registration can be checked.

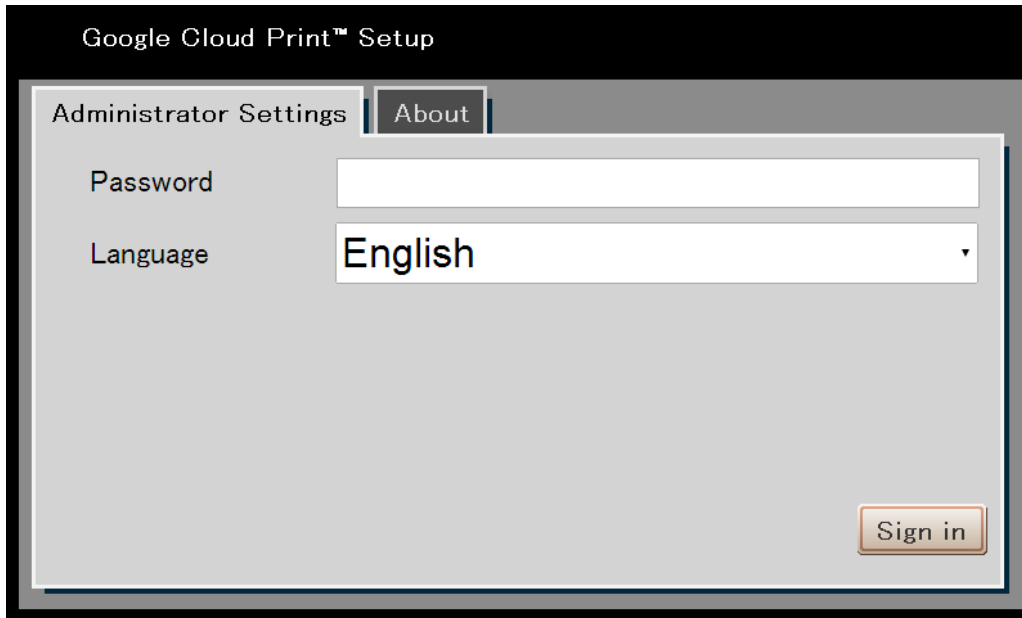



Items	Details
“Google Cloud Print” label	Shows the ON/OFF status of each Google Cloud Print function. In case of the OFF status, the Google Cloud Print function is disabled. * The setting can be changed according to descriptions in “3-3-2. Setting”. * If the device has not been registered, this item is not displayed.
“Printing through Cloud Server” label	Shows whether or not printing through Cloud server is available. * If the device has not been registered, this item is not displayed.
“Device Name” label	Shows the name of the registered device. If the device has not been registered, “Not registered” is displayed.
“Registration Status” label	Shows whether or not the device has been registered to Google Cloud Print.
“Setting” button 	Switches to the sign-in screen of Administrator Settings.

### 3-2. Sign in

This is the sign-in screen of Administrator Settings. The following functions are available.

- Function that enables the user to sign in to the administrator setting function of the application using the administrator password registered on the MFP
- Function that enables the user to switch languages used at the application.




Items	Details
“Password” textbox	Enter the administrator password registered on this MFP.
“Language” dropdown list	Specify the language of the application.
“Sign in” button 	Sign in with the entered administrator password. If you succeed in sign-in, the Administrator Settings screen will be displayed.

### 3-3. Administrator Settings Screen

This is the screen to configure administrator settings. The following functions are available.

- Registration: Function that enables the user to register/delete devices on/from Google Cloud Print
- Setting: Function that enables the user to configure each setting of Google Cloud Print
- Proxy Setting: Function that enables user to connect with the external Google Cloud Print through the proxy server
- Log: Function that enables user to print an exception trace log

Button used in common on each setting screen

Items	Details
<p data-bbox="150 667 331 696">"Sign out" button</p> 	<p data-bbox="699 667 1198 696">Log out from the Administrator Settings screen.</p> <p data-bbox="699 712 1430 784">After logout, go to the screen where the application has been started ("3-1. Confirmation of Registration Status").</p>


### 3-3-1. Registering

If the device has not been registered, a screen for registering the device name will be displayed.

If the device has been registered, the device name and the account of who registered the device will be displayed, and the button for deleting the device will also be displayed.


#### 3-3-1-1. If the device has not been registered

The screenshot shows the 'Google Cloud Print™ Setup' window with the 'Register' tab selected. The window has a title bar with a close button. Below the title bar are four tabs: 'Proxy Setting', 'Register', 'Setting', and 'Log'. The 'Register' tab is active. The main content area contains the following text: 'Enter the authentication destination URL. Authenticate in order to register the device to Google Cloud Print. Please tap "Show" button to show the authentication destination URL.' Below this text is a text input field labeled 'Device Name' containing the text 'bizhub XXXX-XXXXXXXXXXXXXXXX'. At the bottom right of the input area is a 'Show' button.

Items	Details
"Device Name" textbox	Enter the device name to be registered.
"Show" button 	Go to the authentication destination URL screen. * For details, see "2-2. Registering from Application".

3-3-1-2. If the device has been registered




Items	Details
"Device Name" textbox	Shows the registered device name. * Disable to input.
"Delete" button 	Delete the registered device.

### 3-3-2. Setting

Configure each setting for Google Cloud Print.

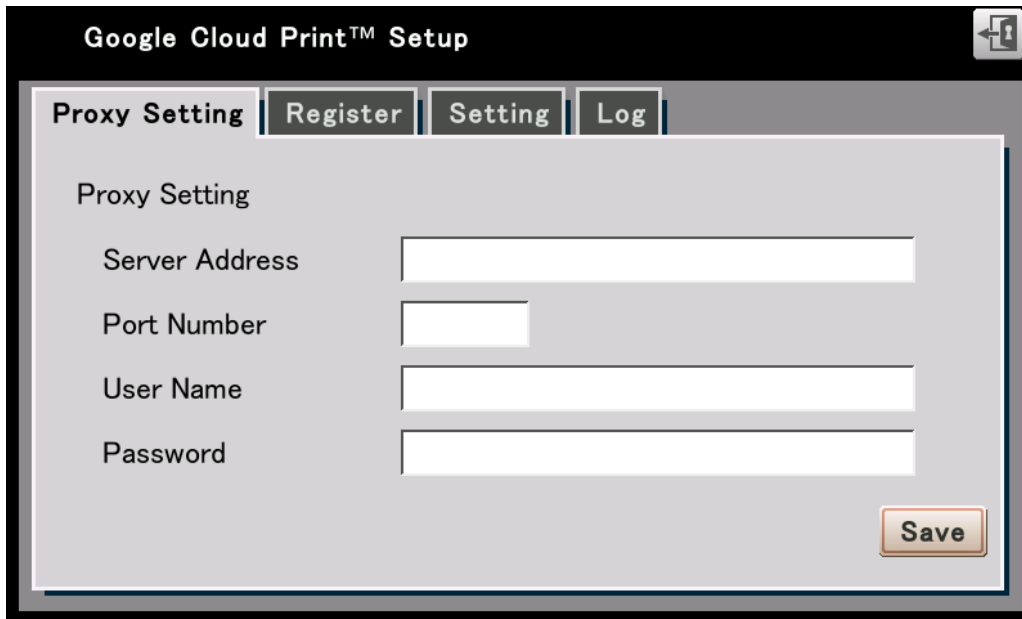
The screenshot shows the 'Google Cloud Print™ Setup' window with the 'Setting' tab selected. The window has a title bar with a close button. Below the title bar are four tabs: 'Proxy Setting', 'Register', 'Setting' (active), and 'Log'. The main content area is titled 'About Google Cloud Print'. It contains a 'Google Cloud Print' dropdown menu set to 'ON'. Below this, a message states 'Network operation Error has occurred'. Underneath the message is a 'Retry Interval' text box containing the number '5', followed by the text 'sec (5-300)'. A 'Save' button is located at the bottom right of the window.

Items	Details
“Google Cloud Print” dropdown list	Shows the ON/OFF status of Google Cloud Print function. In case of the OFF status, the Google Cloud Printing is disabled.
“Retry Interval” textbox	When a network error occurs, set the interval at re-connection with the Google server. Setting range: 5 to 300 seconds
“Save” button 	Save settings.




### 3-3-3. Proxy Setting

Proxy Setting is configured to connect with the external Google Cloud Print through the proxy server.




The screenshot shows the 'Google Cloud Print™ Setup' window with the 'Proxy Setting' tab selected. The window has a dark title bar and a light gray background. At the top, there are four tabs: 'Proxy Setting' (selected), 'Register', 'Setting', and 'Log'. Below the tabs, the 'Proxy Setting' section contains four text input fields: 'Server Address', 'Port Number', 'User Name', and 'Password'. A 'Save' button is located at the bottom right of the form area.

Items	Details
“Server Address” textbox	Enter the address of the proxy server.
“Port Number” textbox	Enter the port number of the proxy server.
“User Name” textbox	Enter the user name when the proxy authentication is required.
“Password” textbox	Enter the password when the proxy authentication is required.
“Save” button 	Save settings.

### 3-3-4. Log

Print an exception trace log at occurrence of any problem.



Items		Details
"Start" button		Print the exception trace log.

### 3-4. Printing

Document saved on Google Cloud can be printed.

Also, in a local network environment where the terminal cannot be connected with Google Cloud, printing can also be performed through Google Chrome without using any driver.

(Note)

Device registration must be completed.

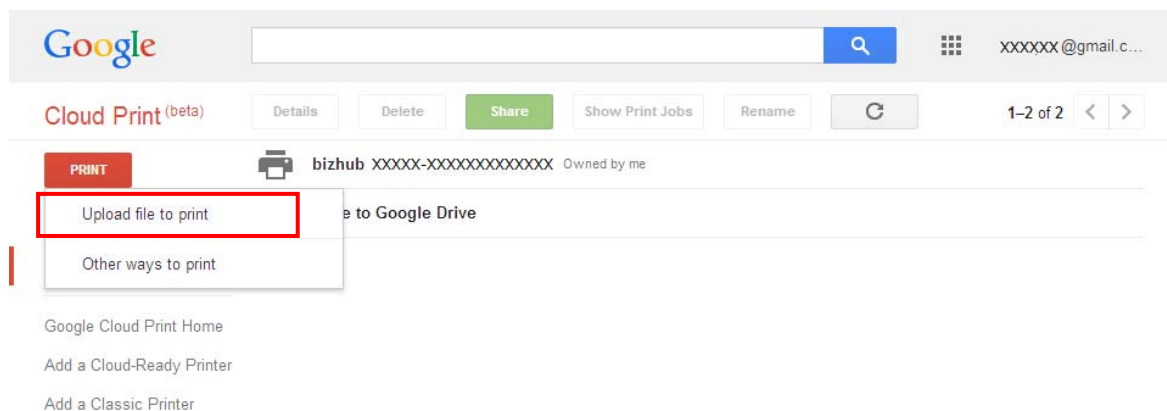
All screen images in this document are captured from Google Chrome on the PC, so that they can only be used as reference.

#### 3-4-1. Printing through Google Cloud Print

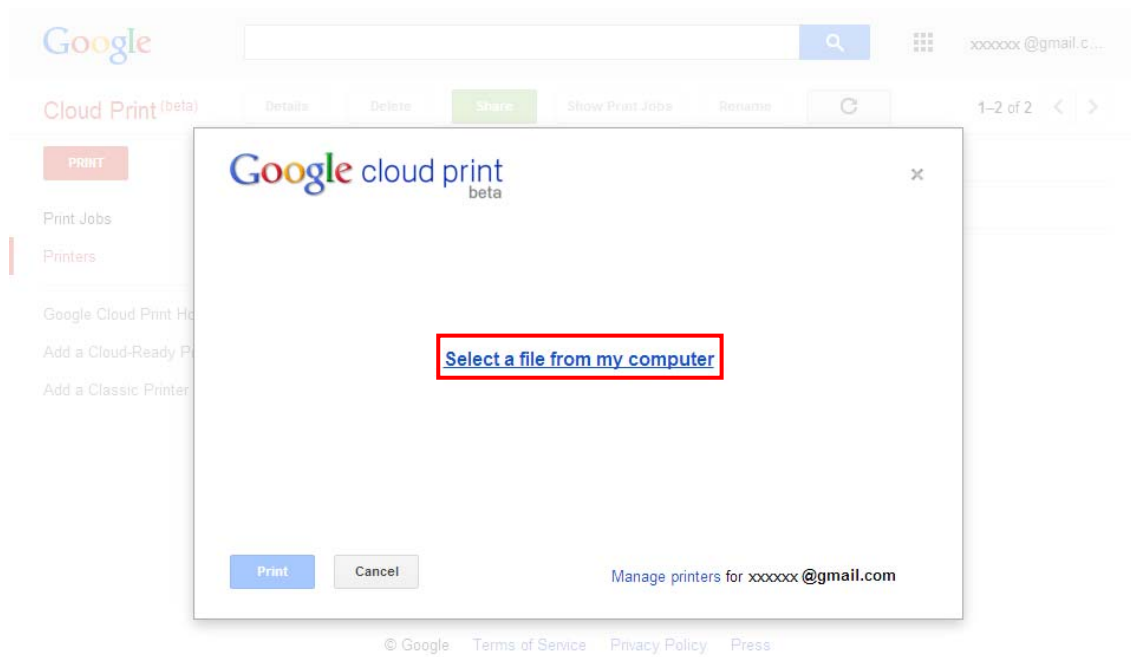
Access the device through the Google Cloud Print to print.

As an example, it shows the method to upload a file to the Google Cloud Print and print it.

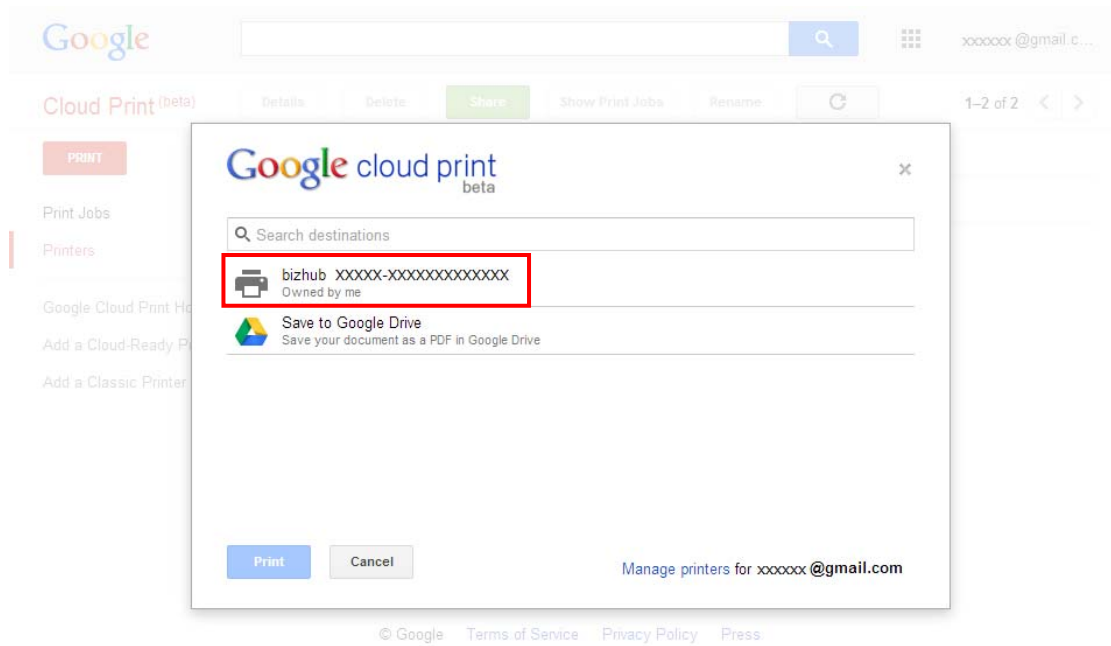
- (1) Sign in by accessing the Google Cloud Print management web page (<https://www.google.com/cloudprint/>) from the terminal.
- (2) After sign-in, Cloud Print information linked with the account will be displayed.  
Select "PRINT" and "Upload file to print".



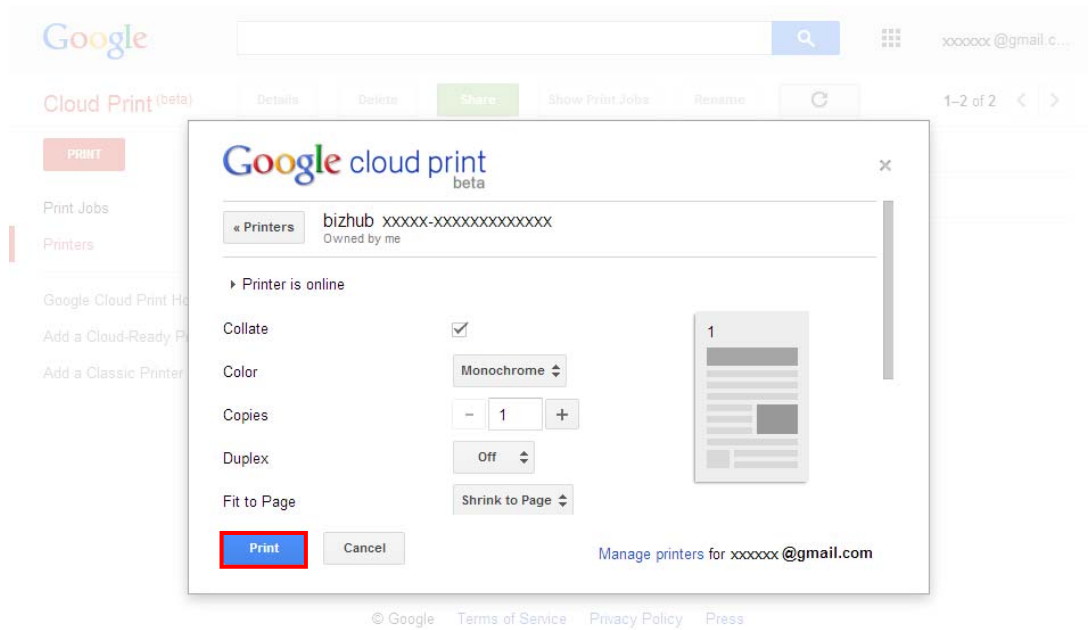
(3) Select a file.



(4) After selecting a file, select a device to print the file.



(5) After configuring the required print settings, press the “Print” button to start printing.



### 3-4-2. Local Printing

In a local network environment where the terminal cannot be connected with Google Cloud, printing can also be performed through Google Chrome without using any driver.

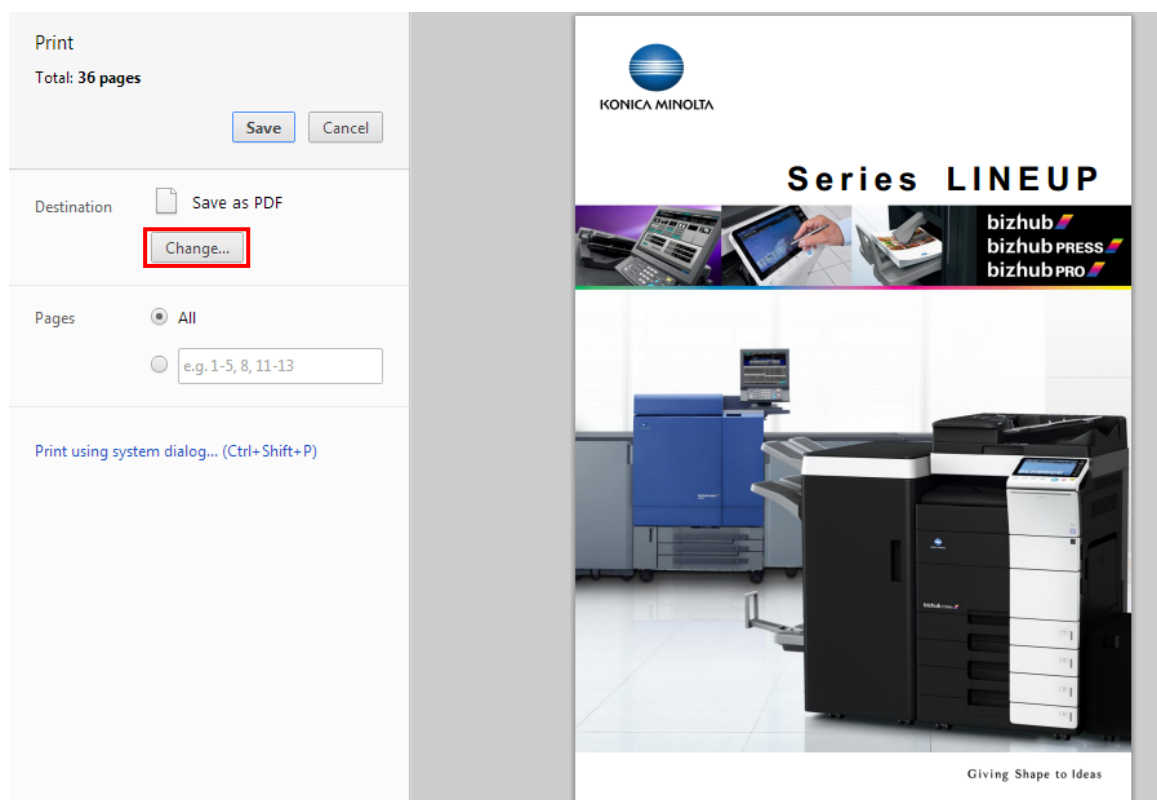
(1) Start Google Chrome from the PC, and display the screen to be printed.

It is possible to print a PDF file by dragging and dropping it to Google Chrome.

(2) Display the print screen, and press the “Change...” button.

This step is not required when the device registered on Google Cloud Print has already been selected.


To display the print screen using Google Chrome, press Ctrl+P (⌘+P for Mac). Also, it can be displayed by clicking Print (P) in the Google Chrome menu. For details, access the Google support web page.




(3) Select a device from local destinations.


Select a destinationShowing destinations for xxxxxx@gmail.com✕

**Recent Destinations**


 Save as PDF


**Local Destinations** [Manage...](#)

 Save as PDF

 bizhub XXXXX-XXXXXXXXXXXX

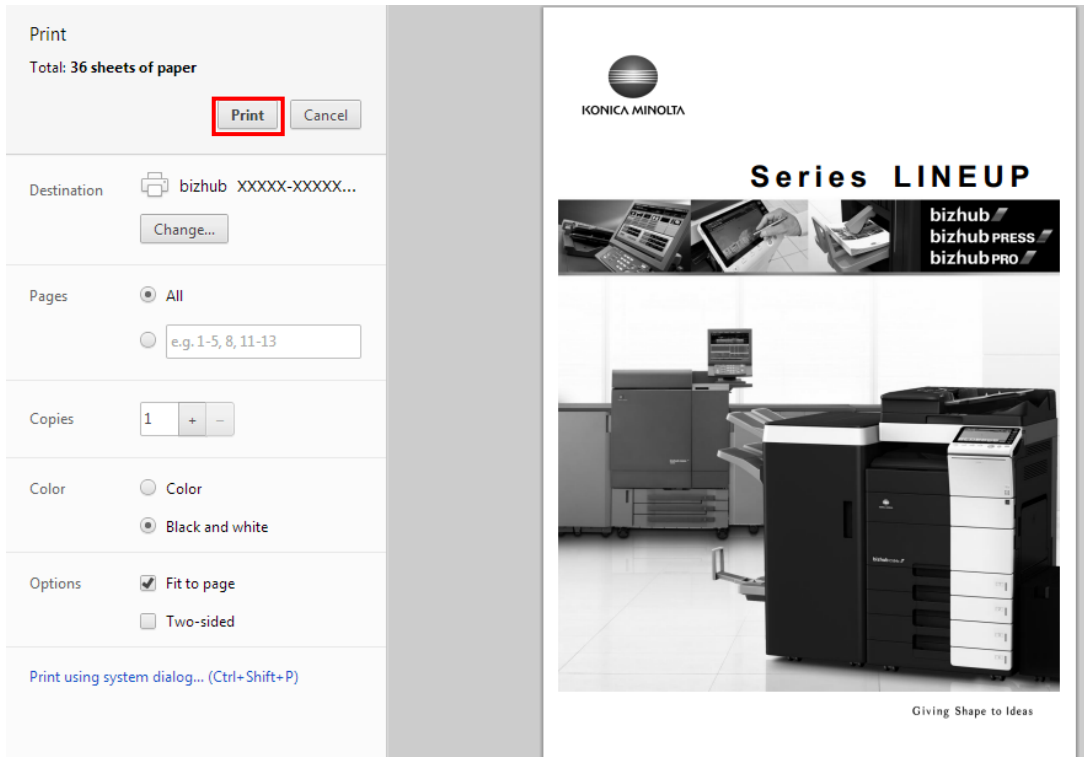
**Google Cloud Print** [Manage...](#)

 bizhub XXXXX-XXXXXXXXXXXX

 Save to Google Drive



(4) After configuring the required print settings, press the “Print” button to start printing.



### 3-5. Deletion of Device

This function is used to delete the registered devices. Deletion can be made in the following two patterns.

- Deleting with this application
- Deleting through Google Cloud Print management web page

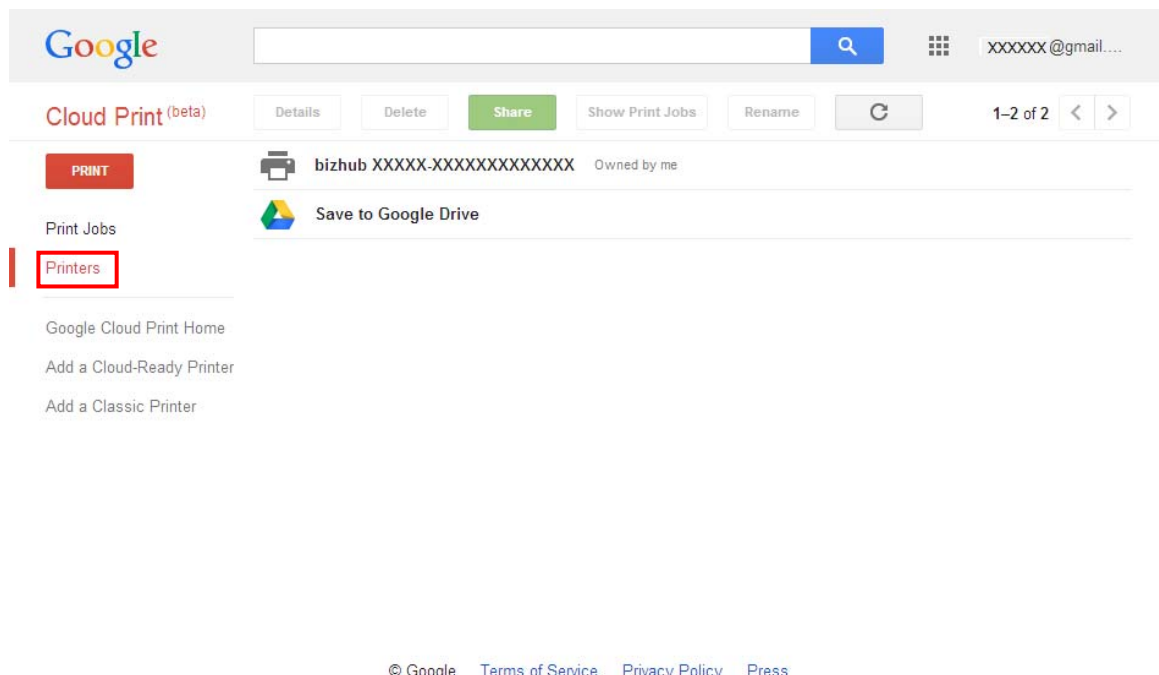
#### 3-5-1. Deleting with this application

The screen described in “3-3-1-2. If the device has been registered” is displayed, tap “Delete” button to start deleting.

#### 3-5-2. Deleting through Google Cloud Print management web page

- (1) Access the Google Cloud Print management web page (<https://www.google.com/cloudprint/>) from the terminal, and then press “Printers”.

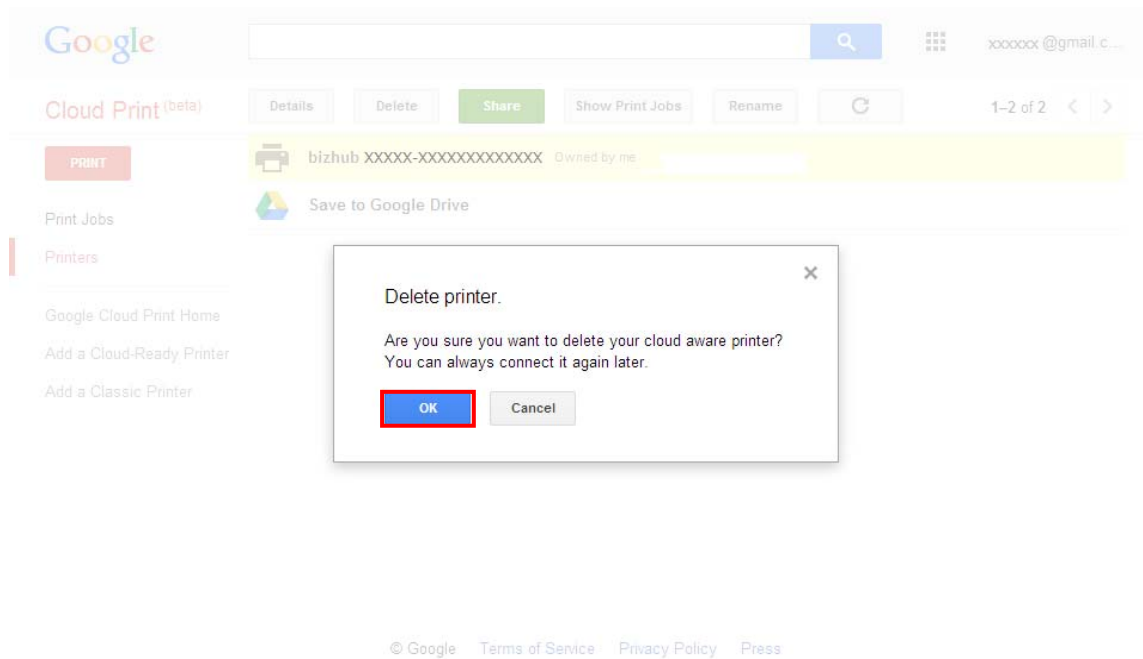
Sign in to Google Services if it has not been done.



(2) Select the device to be deleted, then press "Delete".

The screenshot shows the Google Cloud Print (beta) interface. At the top is the Google search bar and a user profile icon labeled "XXXXXX @gmail....". Below the search bar, there are several action buttons: "Details", "Delete" (highlighted with a red box), "Share", "Show Print Jobs", "Rename", and a refresh icon. To the right of these buttons is a pagination indicator "1-2 of 2" with left and right arrow buttons. On the left side of the interface, there is a sidebar with a "PRINT" button, "Print Jobs", and "Printers" (highlighted with a red vertical bar). The main content area displays a list of printers. The first printer, "bizhub XXXXX-XXXXXXXXXXXX", is highlighted with a red box and labeled "Owned by me". Below the printer list, there is a "Save to Google Drive" button. At the bottom of the page, there is a footer with the text "© Google Terms of Service Privacy Policy Press".

(3) Press “OK” to delete the device.



## 4. Troubleshoot

### 4-1. Required Options

The following option is required to use the application.

Without installing the option, you cannot use the application.

- Web browser function (LK-101 v3) in the i-Option license kit  
[Confirmation method]
  1. Press the Menu key on the machine to open the Menu screen.
  2. Tap the Utility button to open the Utility screen.
  3. Tap the Administrator Settings button to open the Administrator Settings screen.  
On this screen, enter the administrator password.
  4. Tap the License Settings button to open the License Settings screen.
  5. Tap the List of Enabled Functions button to open the List of Enabled Functions screen.
  6. Confirm that "Web browser" is displayed on the list of function names.

### 4-2. Confirmation of Network Settings

Confirm with the network administrator that the following hosts and ports are available.

- www.google.com: 80, 443
- talk.google.com: 5222

When using a proxy server, make sure that the proxy server port is open.

### 4-3. Confirmation of IP Filtering Setting

If the IP filtering setting is enabled, then configure so that the IP address "127.0.0.1" is available.

Settings described here are configured via PSWC, but it also can be configured through the administrator setting screen of this machine.

[Confirmation method]

1. Check the administrator setting screen of the MFP for that if setting has been configured to enable communication from the PC in the network.
2. Access PSWC ([http\(s\)://IP address of each machine](http(s)://IP address of each machine)) from the browser of the PC.
3. Sign in as an administrator, and select Network -> TCP/IP Setting -> IPv4 Filtering.
4. If IP Filtering (Permit Access) is enabled,  
add the IP address "127.0.0.1" to [Set].
5. If IP Filtering (Deny Access) is enabled,  
and the IP address "127.0.0.1" is included in [Set], delete the IP address.

#### 4-4. Confirmation of IWS Setting

If IWS Settings is disabled, set up so that IWS Settings is enabled.

Settings described here are configured through PSWC, but it also can be configured through the administrator setting screen of this machine.

[Confirmation method]

1. Access PSWC ([http\(s\)://IP address of each machine](http(s)://IP address of each machine)) from the browser of the PC.
2. Sign in as an administrator, select Network -> IWS Settings, and change "OFF" to "ON" for IWS Settings.
3. If the Connect IWS Apps to Network settings is "Restrict", change it to "Allow".

#### 4-5. Restrictions when Fiery is installed

This application cannot scan when Fiery is installed.

Remove Fiery as necessary.

#### 4-6. Restrictions at Setting Authentication Method

When setting authentication method (Device authentication or External server authentication), it is required to permit a public user.

### 5. Frequently Asked Questions

Depending on the specifications of Google Cloud Print, the document to be printed may differ from that has been expected.

For details of Google Cloud Print (including methods for printing and sharing a printer, troubleshooting, and etc.), see the following support web page for Google.

<https://support.google.com/cloudprint/?rd=1>

## 6. Copyright / License Information / Trademarks

### 6-1. Google Cloud Print™ Setup

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### 6-2. Tempita

Tempita Software License

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### 6-3. JsonCpp

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