



KONICA MINOLTA

Google Cloud Print Setup

User's Guide

[INDEX]

- 1. Before Use 3
 - 1-1. Settings for Enabling Local Printing..... 3
 - 1-1-1. Bonjour Settings 3
 - 1-1-2. SSL Settings for WebDAV Server Funtion 3
 - 1-1-3. Quick Security Settings..... 3
 - 1-2. Web Browser Setting 4
 - 1-2-1. Proxy Setting 4
- 2. Device Registration 5
 - 2-1. Registering from Local Network 5
 - 2-2. Registering from Application 11
- 3. Operating Procedure of the Application 18
 - 3-1. Confirmation of Registration Status 18
 - 3-2. Sign in 19
 - 3-3. Administrator Settings Screen 20
 - 3-3-1. Registering 21
 - 3-3-1-1. If the device has not been registered 21
 - 3-3-1-2. If the device has been registered 22
 - 3-3-2. Setting 23
 - 3-3-3. Proxy Setting 24
 - 3-3-4. Log..... 25
 - 3-4. Printing 26
 - 3-4-1. Printing through Google Cloud Print 26
 - 3-4-1-1. Shrink To Printable Area setting 30
 - 3-4-2. Local Printing 31
 - 3-5. Deletion of Device 34
 - 3-5-1. Deleting with this application 34
 - 3-5-2. Deleting through Google Cloud Print management web page 34
- 4. Troubleshoot 37
 - 4-1. Required Options..... 37
 - 4-2. Confirmation of Network Settings 37
 - 4-3. Confirmation of IP Filtering Setting 37
 - 4-4. Confirmation of IWS Setting 38
 - 4-5. Restrictions when Fiery is installed..... 38
 - 4-6. Restrictions at Setting Authentication Method 38
- 5. Frequently Asked Questions 38
- 6. Copyright / License Information / Trademarks..... 39
 - 6-1. Google Cloud Print™ Setup 39
 - 6-2. Tempita 39
 - 6-3. JsonCpp 39

Trademarks and registered trademarks

Trademark acknowledgments

KONICA MINOLTA, KONICA MINOLTA logo are registered trademarks or trademarks of KONICA MINOLTA, INC.

Google, Google Cloud Print and Google Drive are trademarks of Google Inc.

All other company and product names are either trademarks or registered trademarks of their respective companies.

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

Unauthorized reproduction, translation or duplication of this document, whether in its entirety or in part, is strictly prohibited.

The contents of this document are subject to change without notice.

Copyright © 2014 KONICA MINOLTA, INC. All rights reserved.

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.

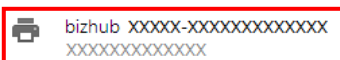
If no device is displayed, see “1-1. Settings for Enabling Local Printing”.

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.

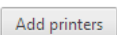
Devices

New devices

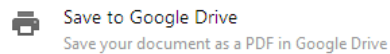


Classic printers

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

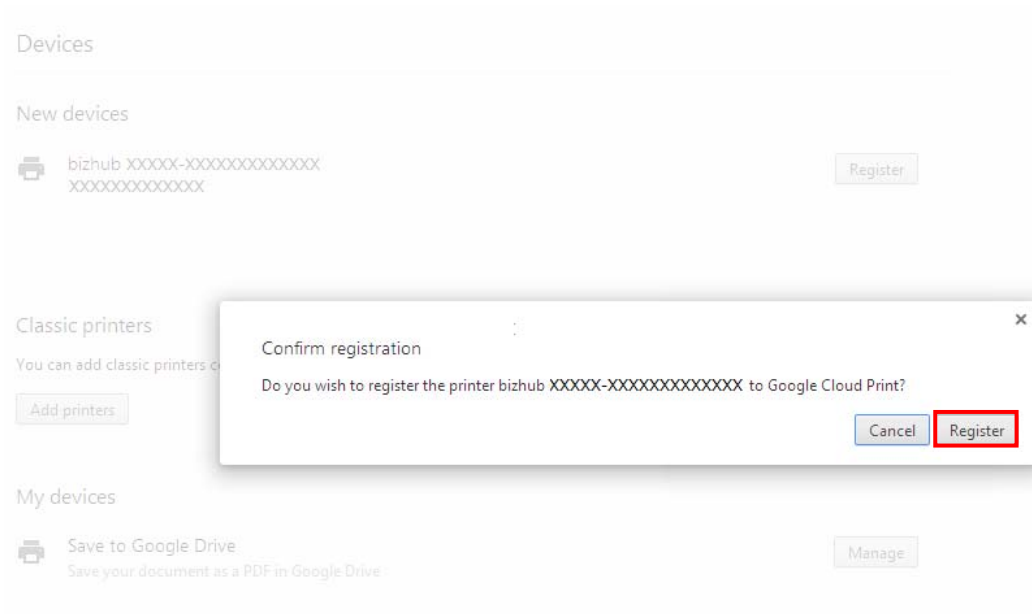


My devices

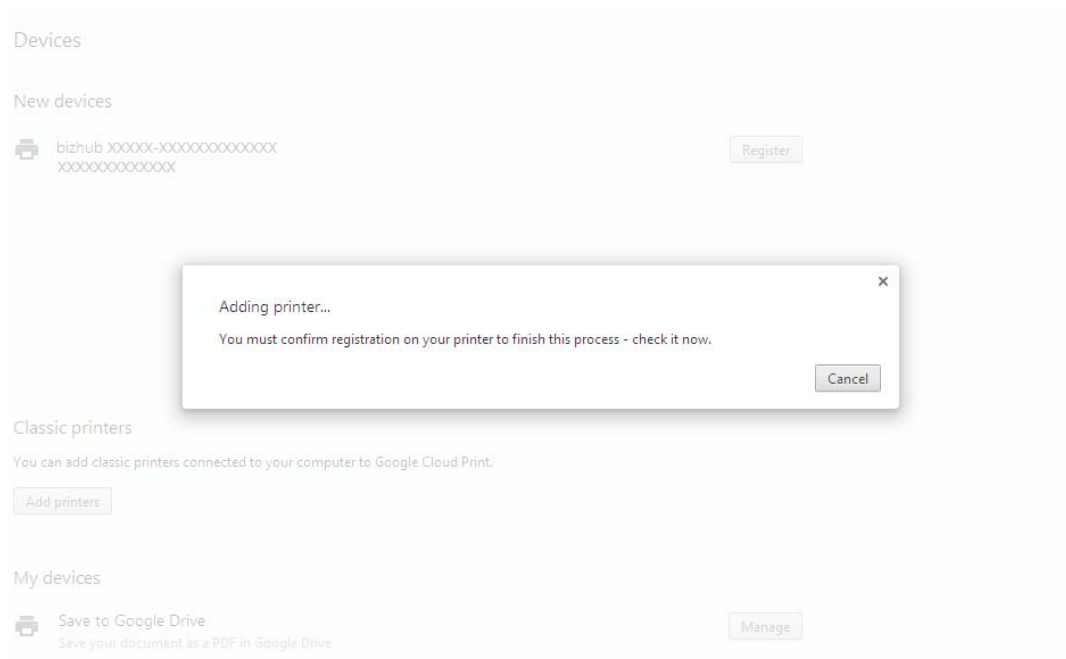


(3) When a dialog message for confirming registration appears, select “Register”.

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



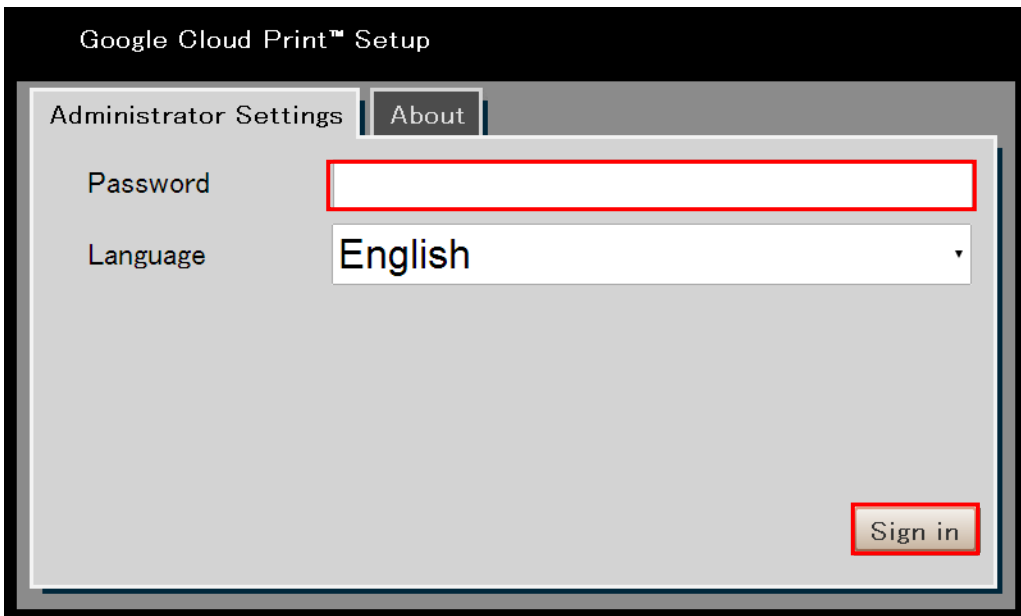
(4) Check the status when adding printer.



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



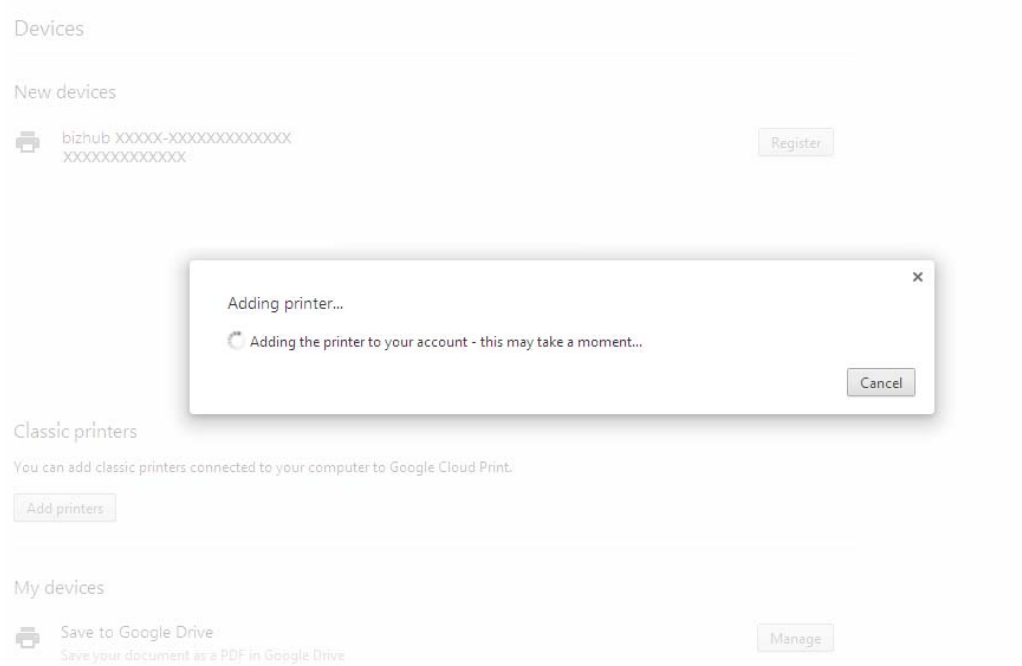
(6) Enter the administrator password registered on the MFP, then tap "Sign in".



(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

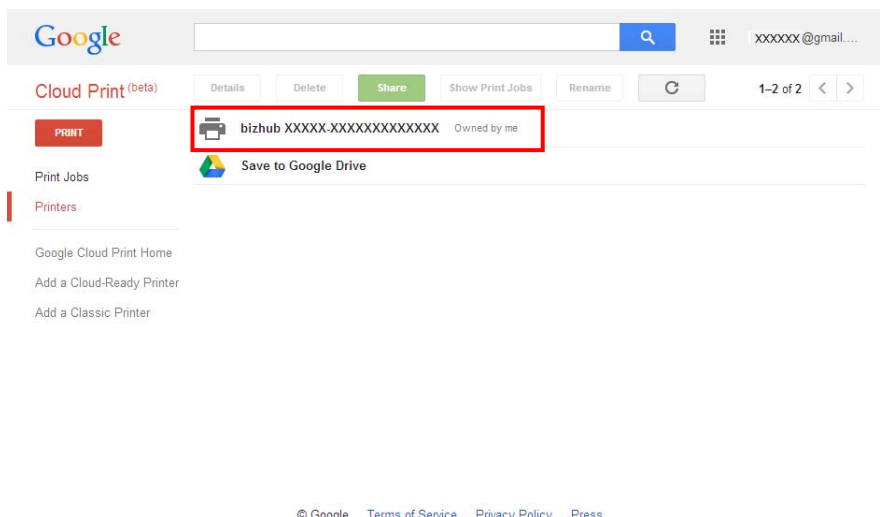
You can add classic printers connected to your computer to Google Cloud Print.

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.



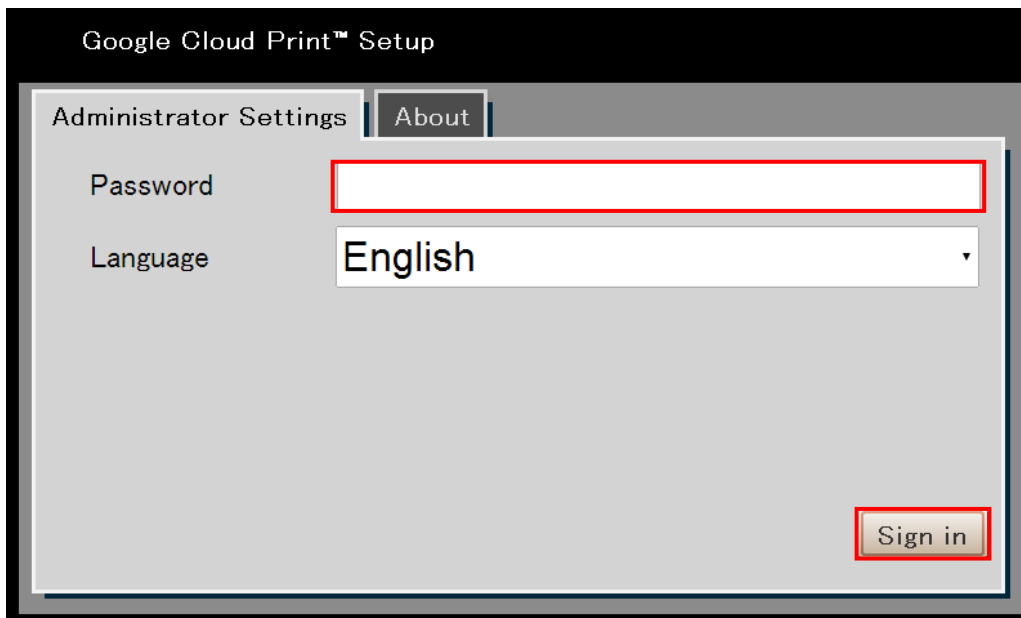
The screenshot shows the Google Cloud Print interface. At the top, there is a Google search bar and a user profile icon labeled "XXXXXX@gmail...". Below the search bar, the "Cloud Print (beta)" header is visible, followed by a row of action buttons: "Details", "Delete", "Share", "Show Print Jobs", "Rename", and a refresh icon. A pagination indicator shows "1-2 of 2". The main content area displays a list of devices. The first device, "bizhub XXXXX-XXXXXXXXXXXX", is highlighted with a red box and includes the text "Owned by me". Below this device is a "Save to Google Drive" option with a printer icon. On the left side, there is a "PRINT" button and a "Print Jobs" section. At the bottom, there are links for "Printers", "Google Cloud Print Home", "Add a Cloud-Ready Printer", and "Add a Classic Printer". The footer contains copyright information: "© Google Terms of Service Privacy Policy Press".

2-2. Registering from Application

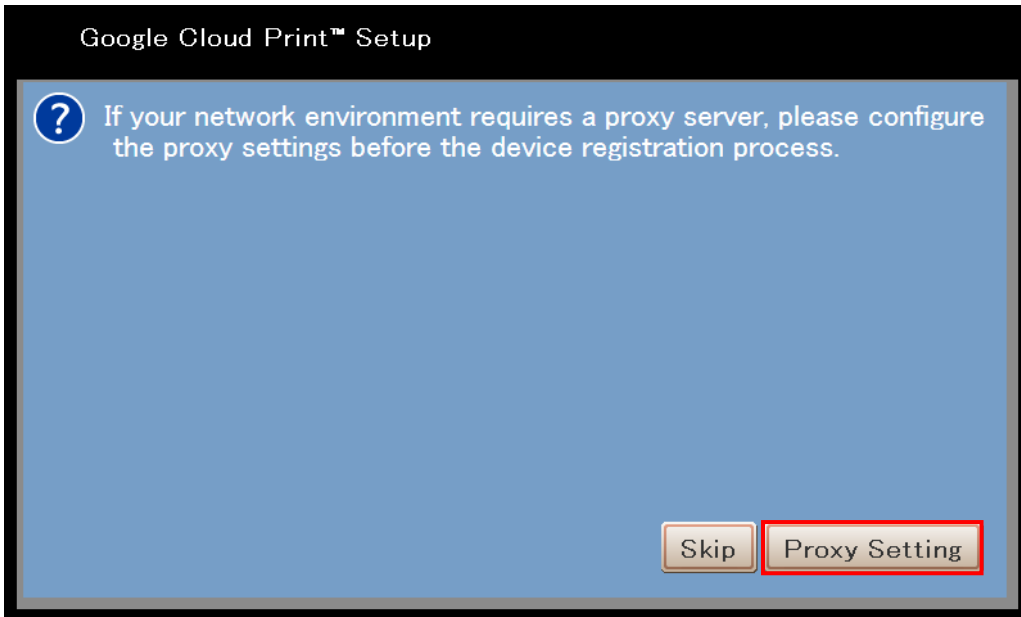
- (1) After starting application, if the device is not registered to Google Cloud Print, the following screen will be displayed. Tap "Setting".



- (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)

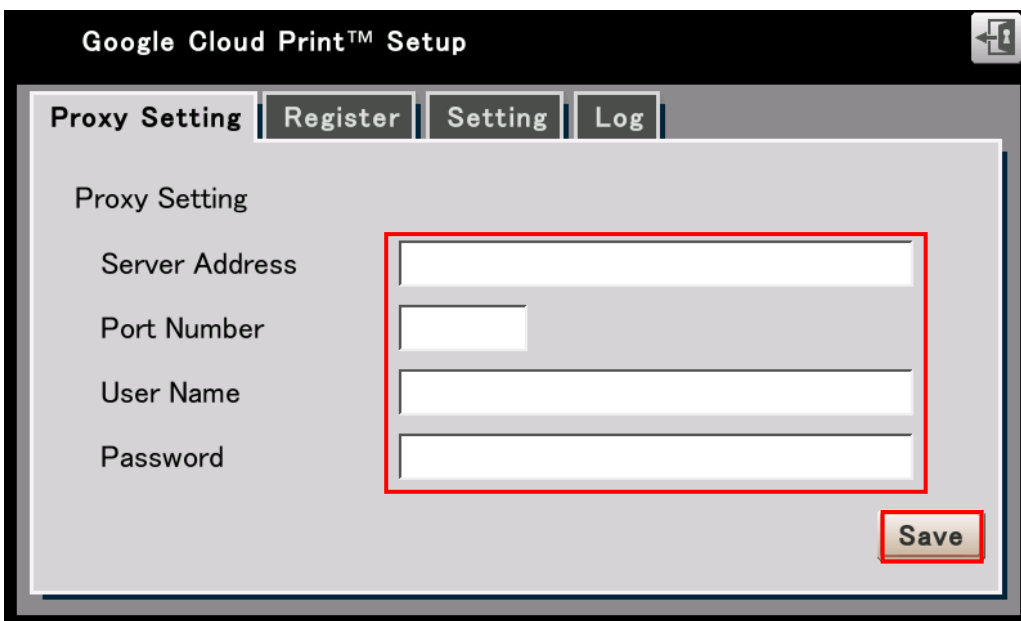
Depending on the MFP and version of the application, values that have been specified in "1-2-1. Proxy Setting" will be set automatically.

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

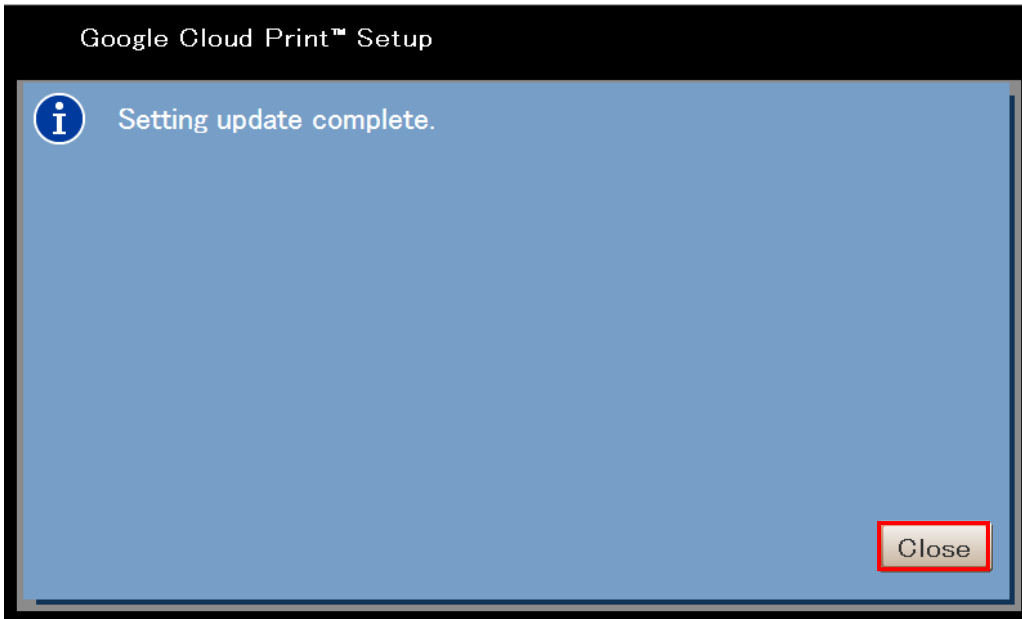
- (4) Settings shown here are required for connecting with the external Google Cloud Print through the proxy server.

Enter the required information, then tap "Save".

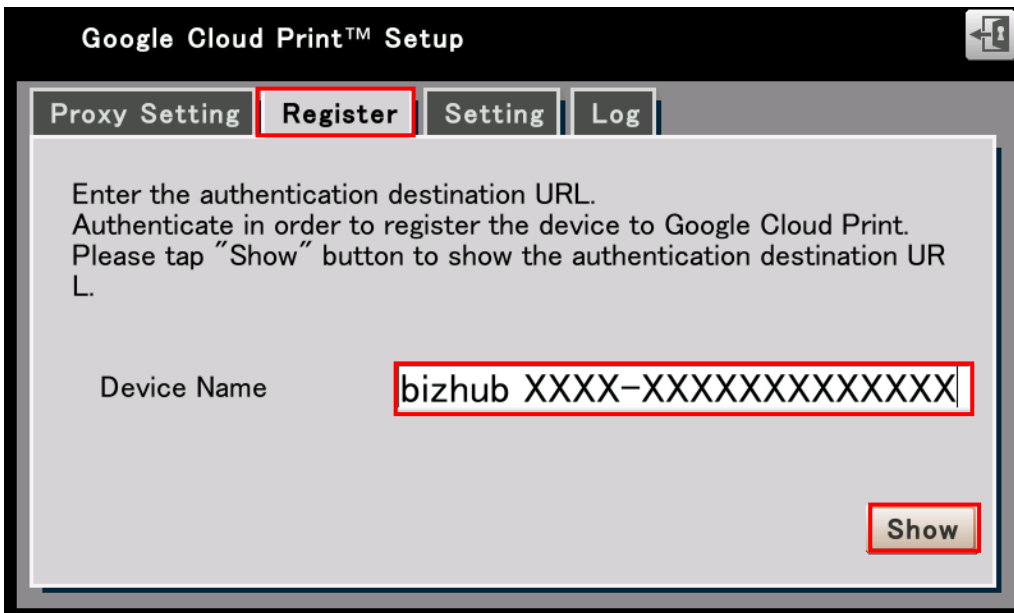
If proxy authentication is required, enter the user name and password.



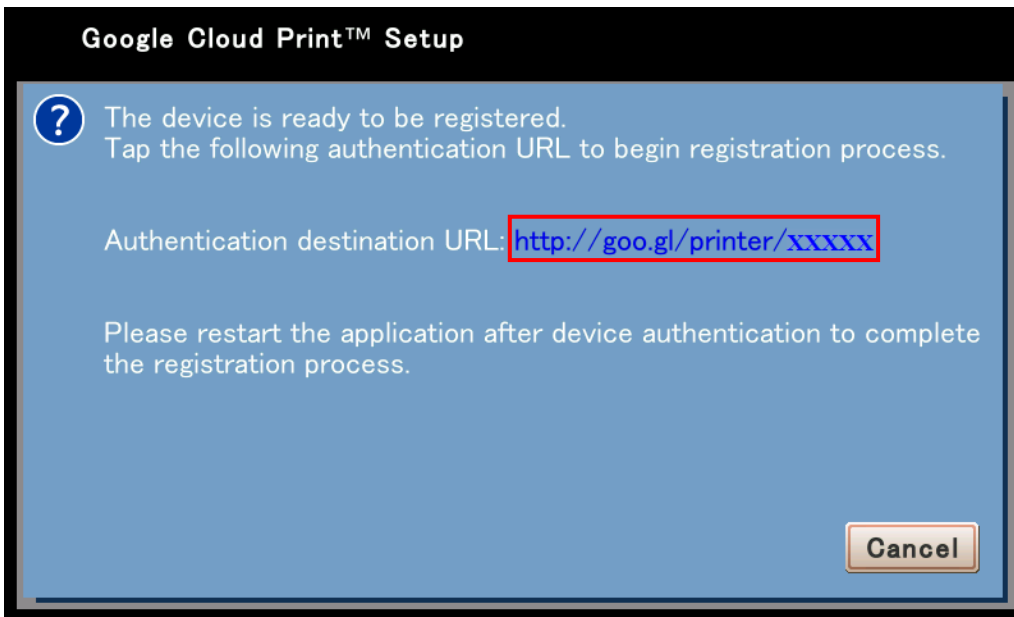
(5) The setting completion screen appears. Tap "Close".



(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.

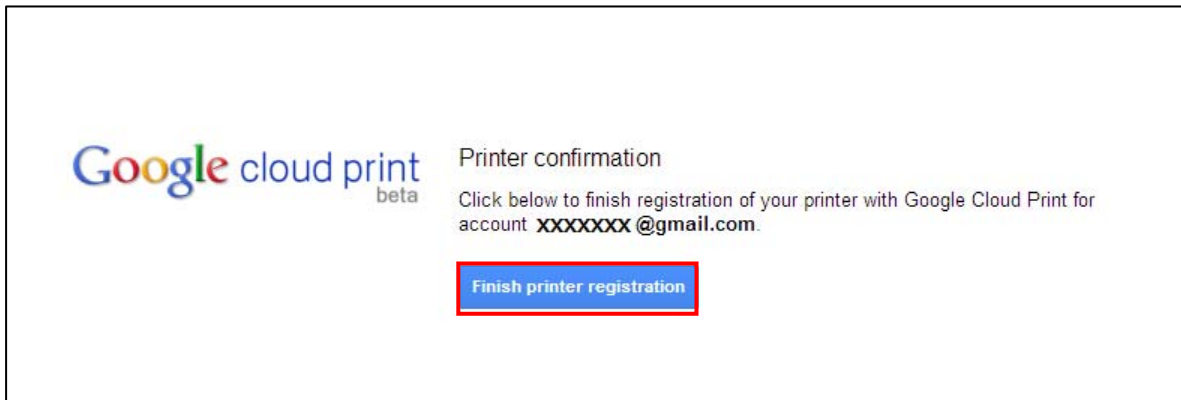


(7) Tap the authentication destination URL.



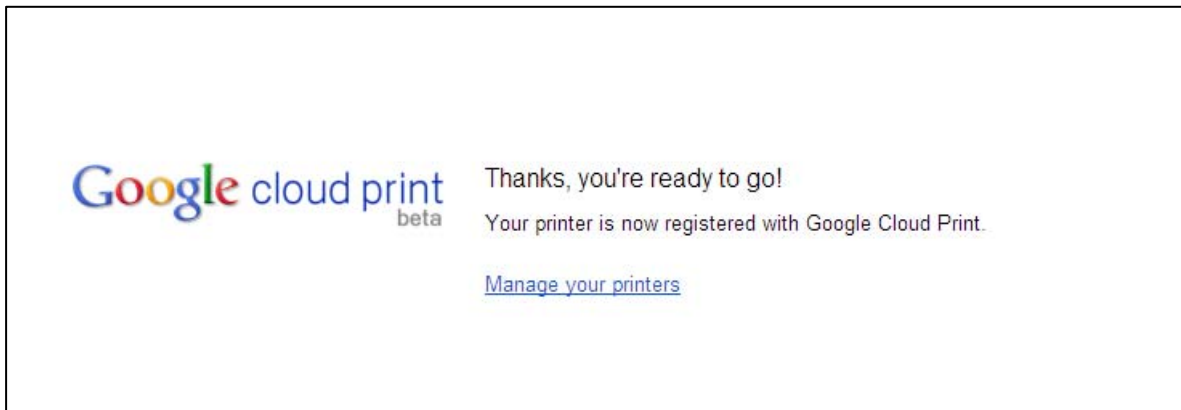
(8) Tap "Finish printer registration".

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



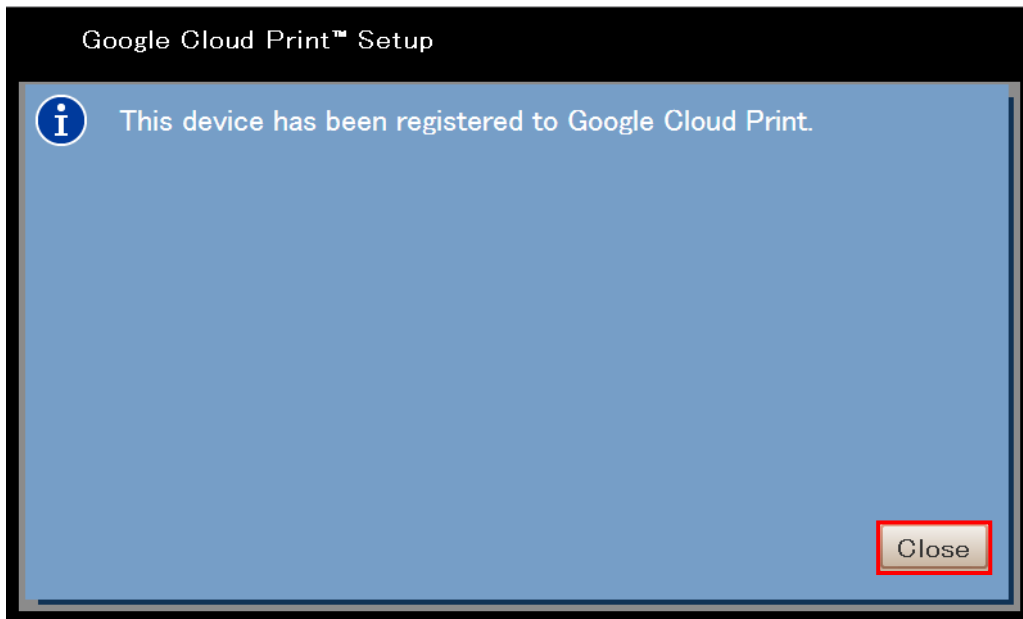
(9) Device registration to Google Cloud Print is complete.

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

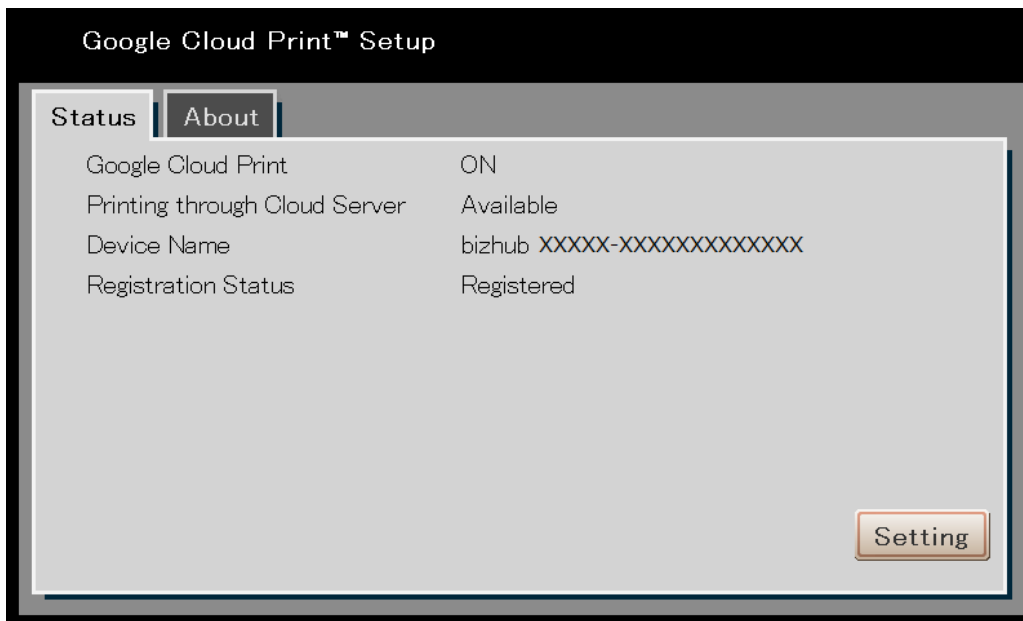


(10) After restarting the application, the following screen will be displayed.

Tap "Close" and check that the MFP has been registered.



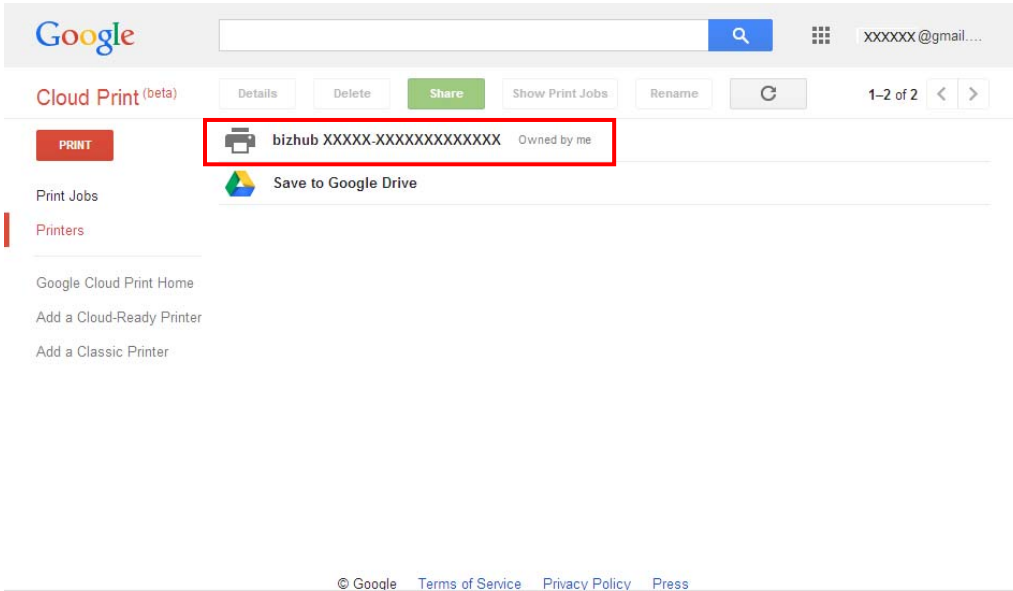
(11) When the following screen appears, the registration on MFP is complete.



(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.

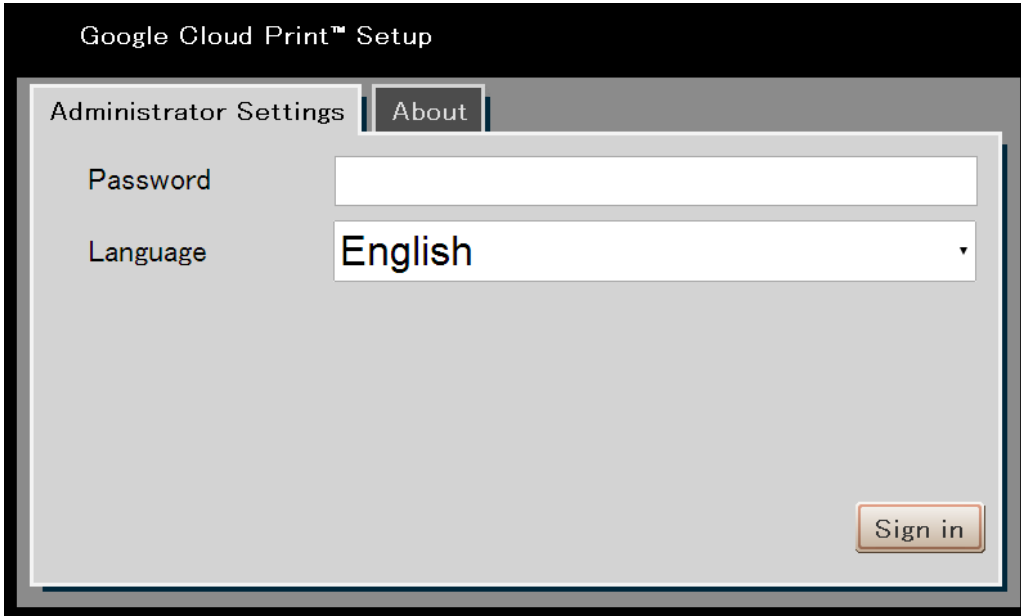



Items	Details
"Google Cloud Print" label	Shows the ON/OFF status of each Google Cloud Print function. In case of the OFF status, the Google Cloud Print function is disabled. * The setting can be changed according to descriptions in "3-3-2. Setting". * If the device has not been registered, this item 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

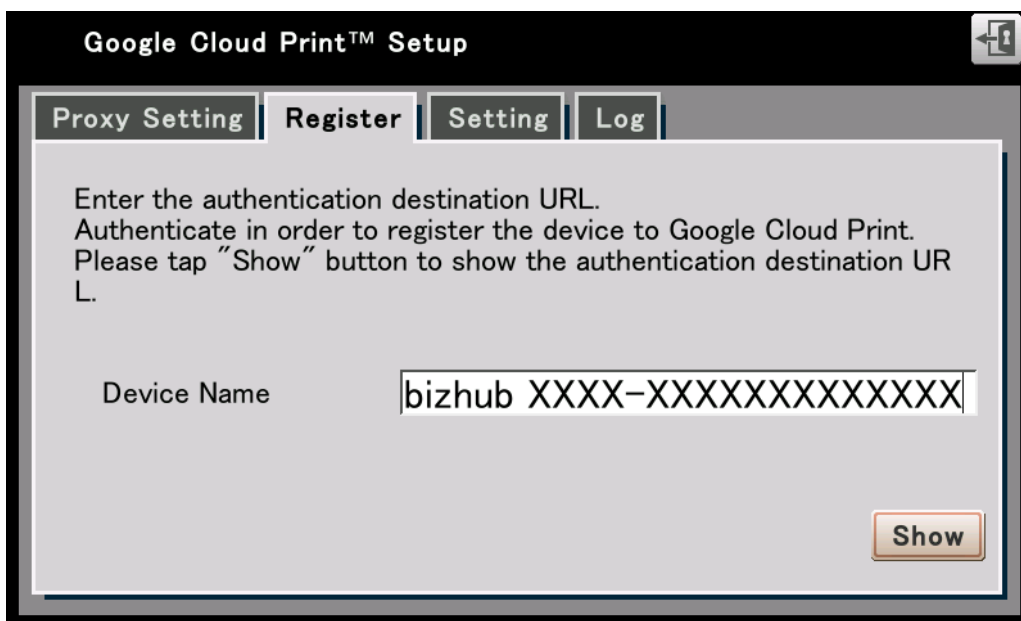
Items	Details
"Sign out" button 	Log out from the Administrator Settings screen. After logout, go to the screen where the application has been started ("3-1. Confirmation of Registration Status").


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.

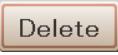
3-3-1-1. If the device has not been registered



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.




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 a window titled "Google Cloud Print™ Setup" with a close button in the top right corner. Below the title bar are four tabs: "Proxy Setting" (selected), "Register", "Setting", and "Log". The "Proxy Setting" tab contains the following fields and a button:


- Proxy Setting
- Server Address:
- Port Number:
- User Name:
- Password:
- Save button:

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.

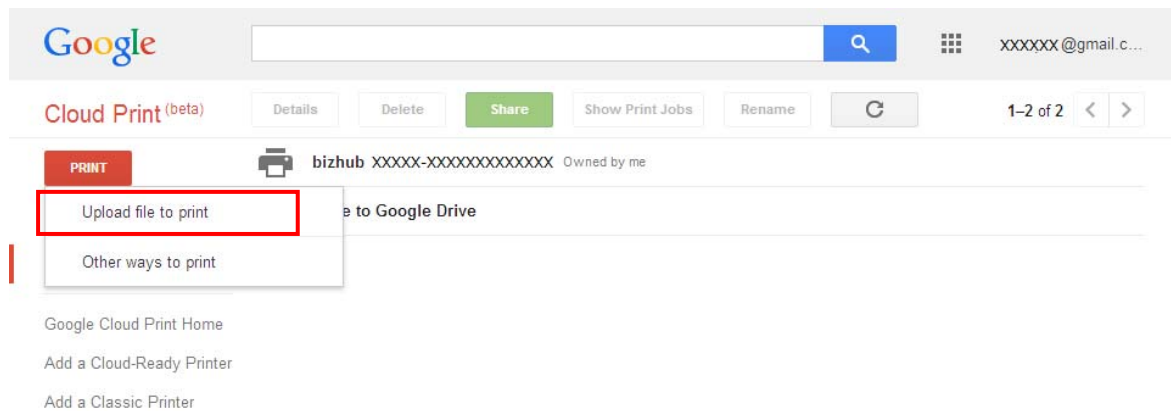
All screen images in this document are captured from Google Chrome on the PC, so that they can only be used as reference.

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.

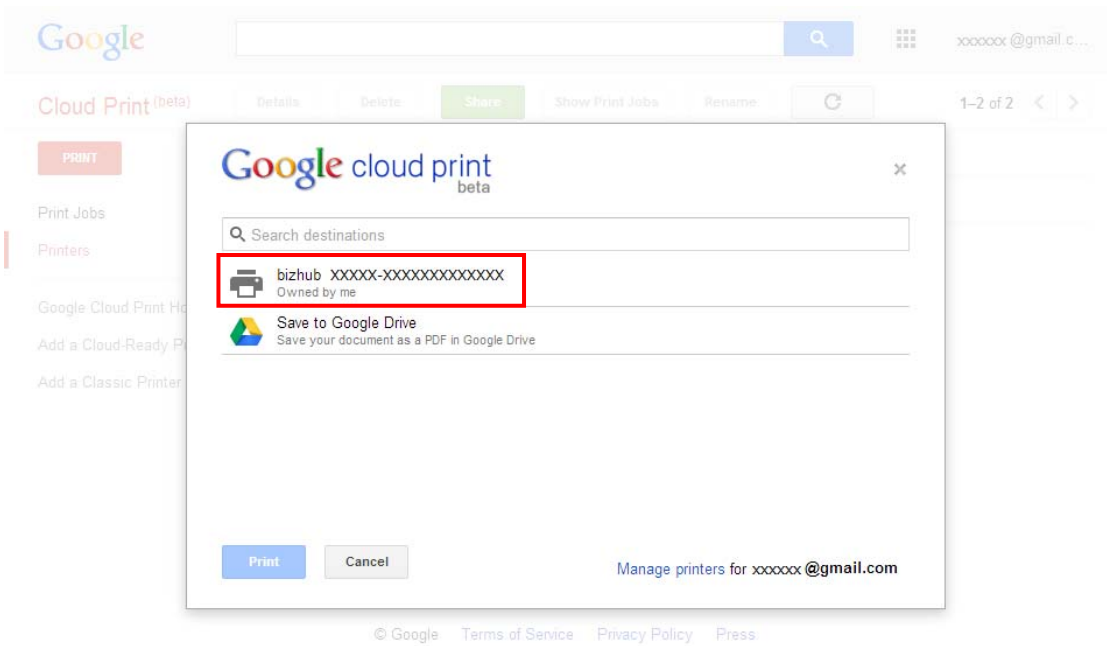
- (1) Sign in by accessing the Google Cloud Print management web page (<https://www.google.com/cloudprint/>) from the terminal.
- (2) After sign-in, Cloud Print information linked with the account will be displayed.
Select "PRINT" and "Upload file to print".



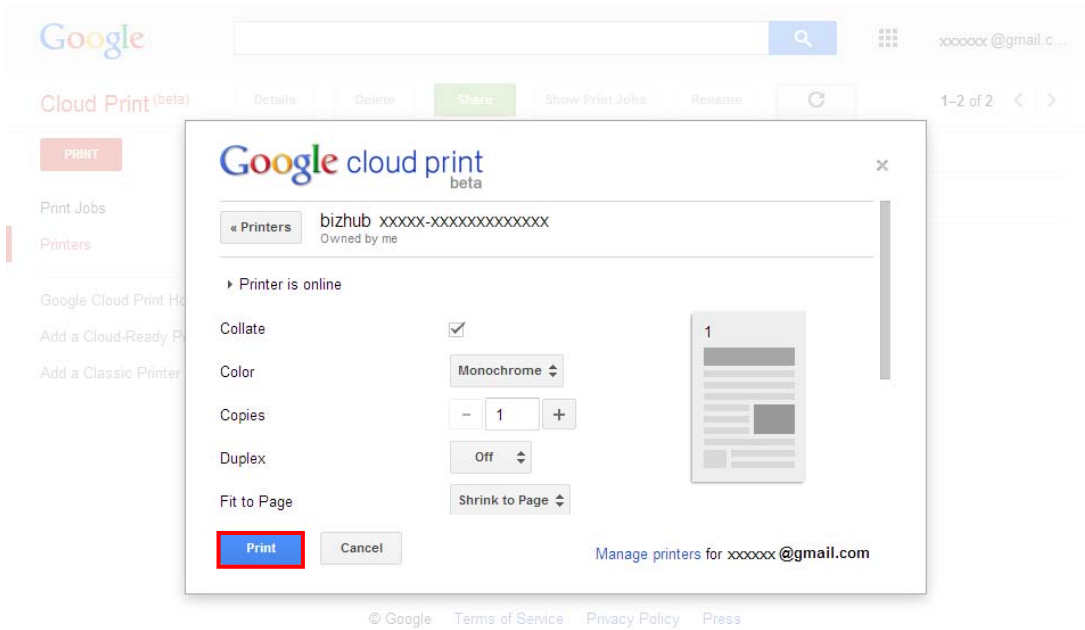
(3) Select a file.



(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.



3-4-1-1. Shrink To Printable Area setting

Setting can be made so that the image in a selected file shrinks automatically within the printable area against the output paper size.

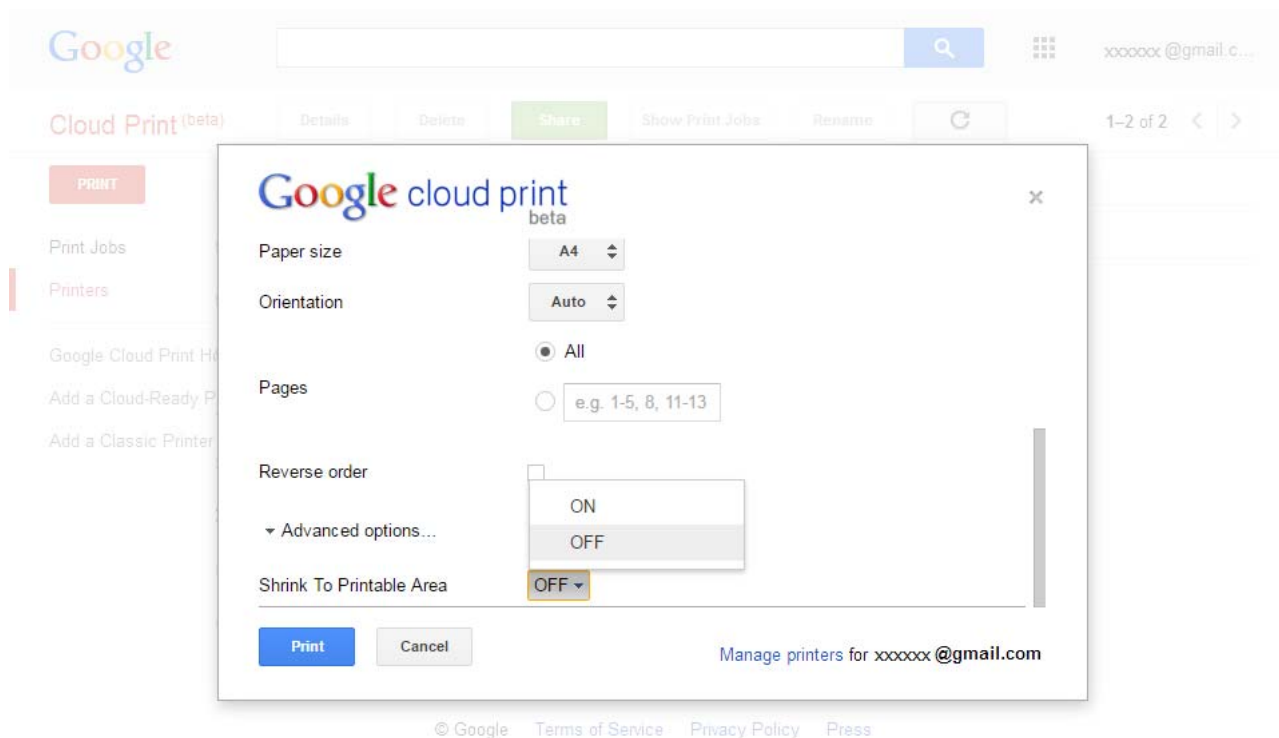
OFF is selected by default.

Selecting ON will shrink the image and print it without losing any edges.

Selecting OFF will print a full-sized image against the output paper size.

(1) On the print setting screen, click “Advanced options... ”.

(2) Change setting of “Shrink To Printable Area”.



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.

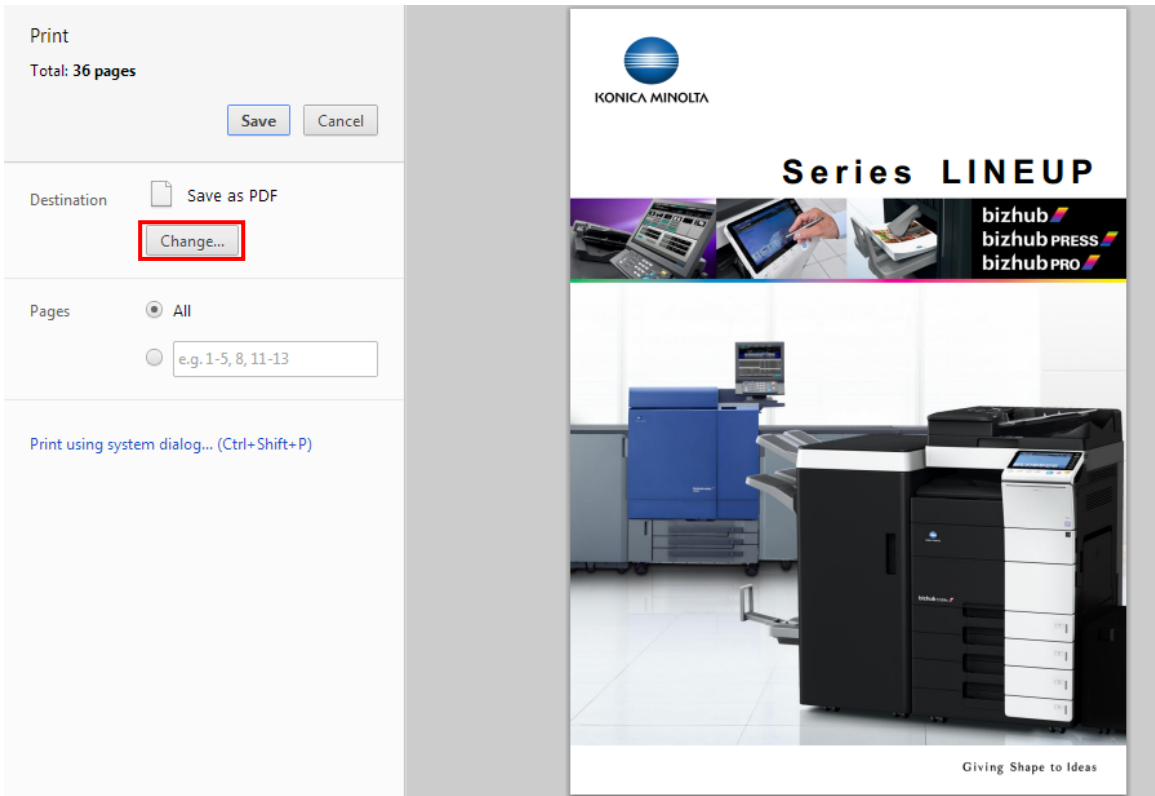
(1) Start Google Chrome from the PC, and display the screen to be printed.

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 destination Showing destinations for xxxxxx@gmail.com ✕

🔍 Search destinations

Recent Destinations

📄 Save as PDF

Local Destinations Manage...

📄 Save as PDF

🖨️ bizhub XXXXX-XXXXXXXXXXXXXX

Google Cloud Print Manage...

🖨️ bizhub XXXXX-XXXXXXXXXXXXXX

📁 Save to Google Drive

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

The image shows a print dialog box on the left and a printed page on the right. The dialog box has the following sections:

- Print**: Total: 36 sheets of paper. Buttons: **Print** (highlighted with a red box), Cancel.
- Destination**: bizhub XXXXX-XXXXX... Change...
- Pages**: All, e.g. 1-5, 8, 11-13
- Copies**: 1, +, -
- Color**: Color, Black and white
- Options**: Fit to page, Two-sided
- [Print using system dialog... \(Ctrl+Shift+P\)](#)

The printed page on the right features the Konica Minolta logo at the top left. Below it is the text "Series LINEUP" in a large, bold font. Underneath this is a horizontal strip showing three different bizhub models: bizhub, bizhub PRESS, and bizhub PRO. The main image on the page shows a large, modern bizhub machine in a clean, bright office environment. At the bottom right of the page, the slogan "Giving Shape to Ideas" is visible.

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

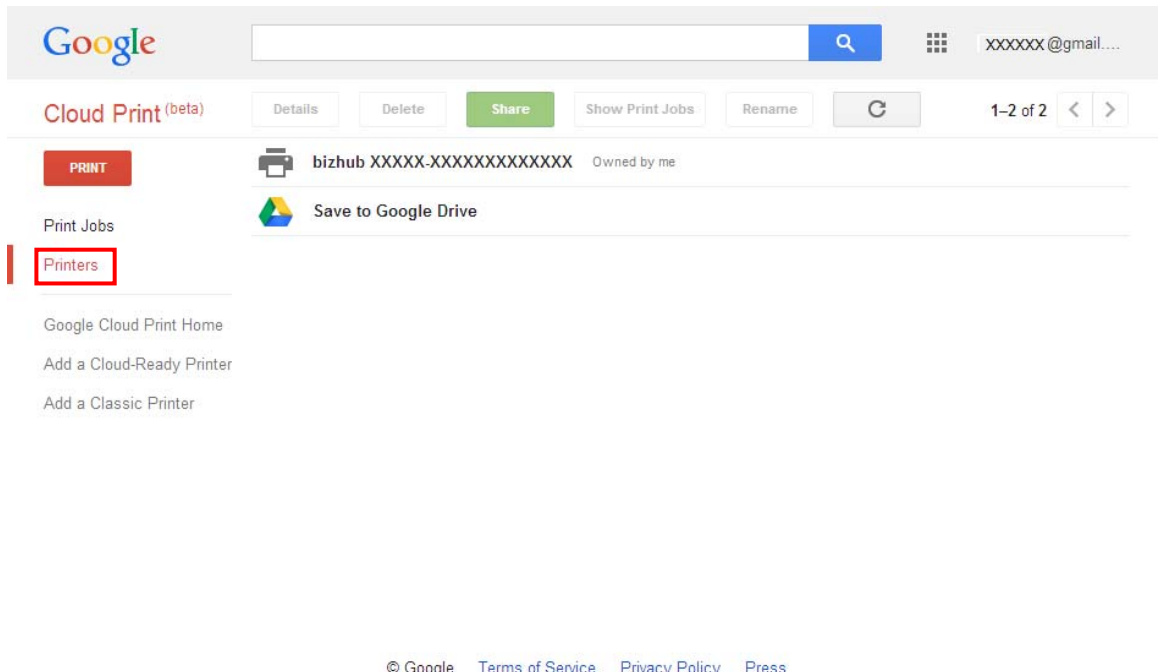
3-5-1. Deleting with this application

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”.

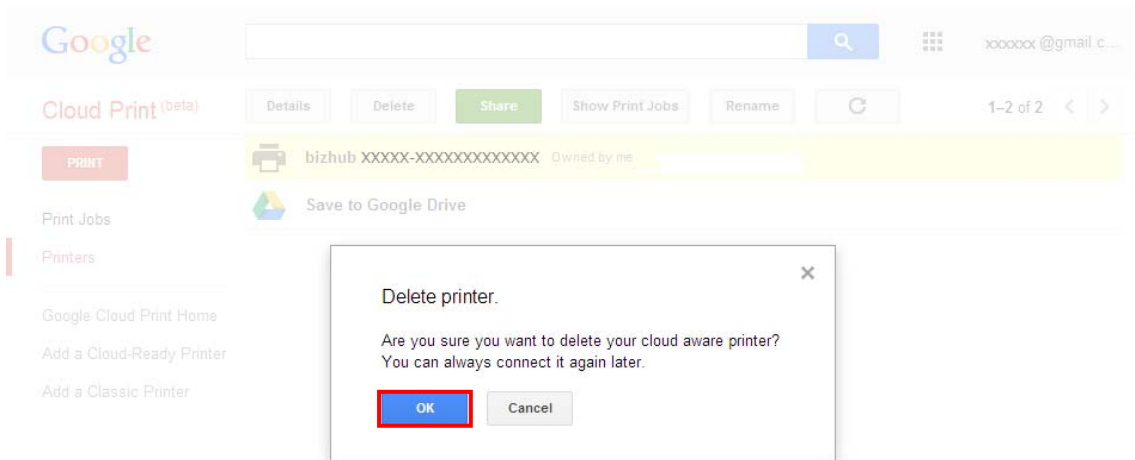
Sign in to Google Services if it has not been done.



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

The screenshot shows the Google Cloud Print (beta) interface. At the top, there is a 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, it says "1-2 of 2" with navigation arrows. On the left side, there is a "PRINT" button and a "Print Jobs" section. The main area displays a printer device named "bizhub XXXXX-XXXXXXXXXXXX" with the text "Owned by me" next to it. This device name and the "Owned by me" text are also highlighted with a red box. Below the printer name, there is a "Save to Google Drive" option with the Google Drive icon. 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

Copyright (C) 2014 KONICA MINOLTA, INC.

All Rights Reserved.

6-2. Tempita

Tempita Software License

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

6-3. JsonCpp

Copyright (c) 2007-2010 Baptiste Lepilleur

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.



KONICA MINOLTA

<http://konicaminolta.com>