OKI

Google Cloud Print User's Manual

Symbols used in this manual

This manual uses the following symbols.

Note! **These are cautions and limitations for correct operation. It is strongly recommended that you read these to avoid operating the machine incorrectly.**

Memo **Knowledge is convenient or for reference. Recommended to read.**

Points to Note

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json-c

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Contents

1. Introduction

What is Google Cloud Print?

Google Cloud Print is a print service supplied by Google that can print from network terminals such as mobile phones, smart phones, or PCs, etc.

A Google account is required for printing. Printing is implemented using a printer or multi-function device registered using a Google account. In such cases, it is not necessary to install any printer drivers.

| Print command | Cloud | Print command |

PC, mobile   Printer/Multi-function device

Google Cloud Print images
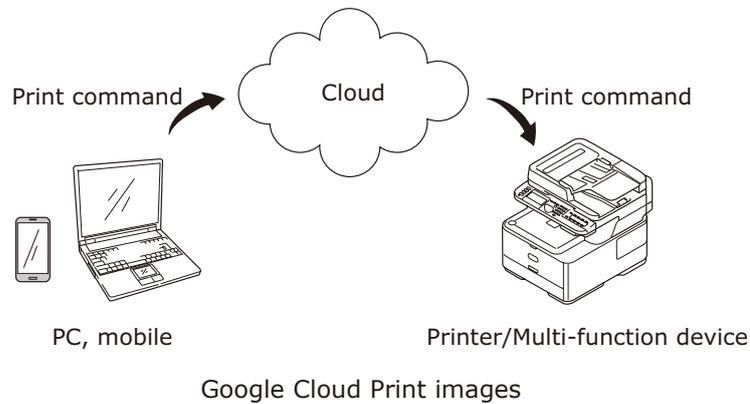
Use Environment

Printer/Multi-function device

This is an Oki Data product compatible with Google Cloud Print, which is used for printing. The Printer/Multi-function device must be connected to the internet.
Make sure the IP address, subnet mask, gateway address, and DNS server, etc., are set.

> **Memo** **Google Cloud Print communicates via the internet, and so implementing the following security measures is recommended.**
> - **Limiting communications from the internet using a firewall, etc.**
> - **Changing the administrator password set in the multi-function device from the default.**

Network terminals

These are PCs or mobile terminals connected to the internet. Print operations are implemented from the Google Cloud Print setup and compatible applications.

Google accounts

An account is required when printing from the Google Cloud Print setup and compatible applications.

Compatible applications

These are applications compatible with the Google Cloud Print running on a network terminal. For details of compatible OS and applications, see the Google website (http://www.google.com/cloudprint/learn/apps.html).
The recommended browser is Google Chrome.

Network

A network is used to communicate between network terminals and the cloud, and the cloud and Printer/Multi-function device.
Google Cloud Print is not compatible with IPv6.

2. Print Preparations

This section explains the procedures for registering Oki Data devices to Google Cloud Print.
This explanation uses MC562dnw as an example.
The control panel screen displays and menus may vary depending on the Oki Data product used.

1 Create a Google Account.

> **Memo** **If you already have an account, it is not necessary to create a new account.**

Access the Google website (https://accounts.google.com/signup) from a PC or mobile terminal such as a smartphone, etc.
Follow the instructions on the displayed page to create an account.

2 Check that the correct IP address, subnet mask, and gateway address have been set in the Oki Data device.
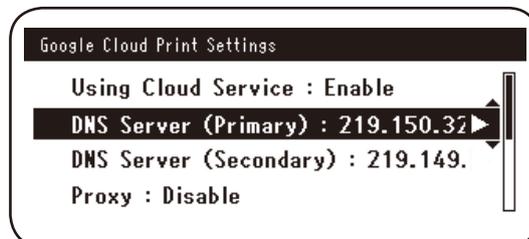
Make sure the settings are correct if already using an Oki Data device connected to the network.
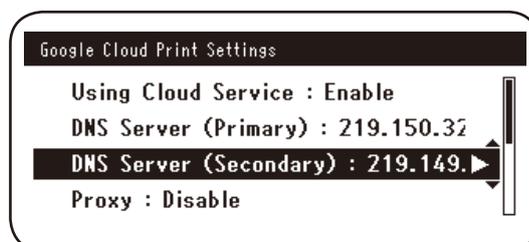For the checking method, see the user manual for the Oki Data device.

3 Check that the IP address for the DNS server of the Oki Data device is set correctly.

Select [**Setting**]-[**Google Cloud Print**]-[**Google Cloud Print Settings**]-[**DNS Server (Primary)**] to check the set values.
If the set value is [**0.0.0.0**], the setup is incorrect, so set the IP address conforming to the environment in use.

```
Google Cloud Print Settings
  Using Cloud Service : Enable
  DNS Server (Primary) : 219.150.32▶
  DNS Server (Secondary) : 219.149.
  Proxy : Disable
```
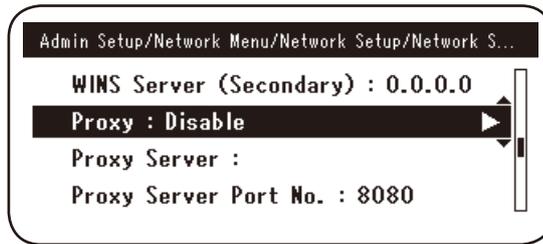
If also using a secondary DNS server, select [**Setting**]-[**Google Cloud Print**]-[**Google Cloud Print Settings**]-[**DNS Server (Secondary)**], and set the IP address.
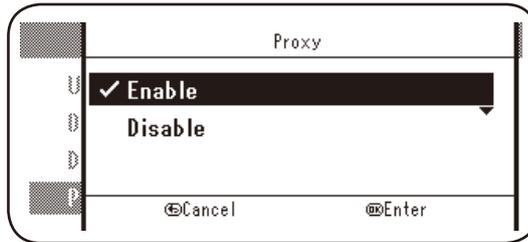
```
Google Cloud Print Settings
  Using Cloud Service : Enable
  DNS Server (Primary) : 219.150.32
  DNS Server (Secondary) : 219.149.▶
  Proxy : Disable
```

4   Setup using the following procedure is using a proxy server on the network environment in use.

(1)   Select [**Setting**]-[**Google Cloud Print**]-[**Google Cloud Print Settings**]-[**Proxy**].

```
Admin Setup/Network Menu/Network Setup/Network S...
   WINS Server (Secondary) : 0.0.0.0
   Proxy : Disable                          ▶
   Proxy Server :
   Proxy Server Port No. : 8080
```

(2)   Set to [**Enable**].

```
                        Proxy
   ✓ Enable
     Disable

        ⑤Cancel              ⑩Enter
```

(3)   Select [**Proxy Server**], and enter the server name.

```
Google Cloud Print Settings
   Proxy : Enable
   Proxy Server :                           ▶
   Proxy Server Port No. : 8080
   Proxy User ID :
```
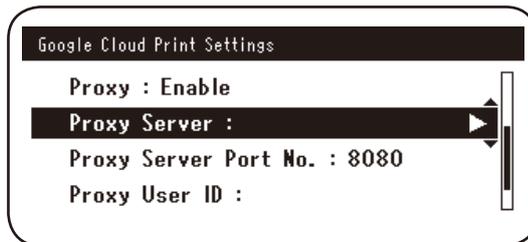
(4)   Select [**Proxy Server Port No.**], and enter the proxy server port number.

```
Google Cloud Print Settings
   Proxy Server :
   Proxy Server Port No. : 8080             ▶
   Proxy User ID :
   Proxy Password :
```
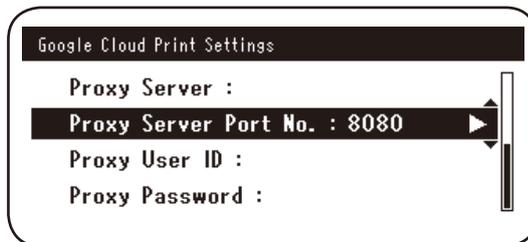
Set the [**Proxy User ID**] and [**Proxy Password**].

Memo   **Consult your network administrator for the set values.**

```
Google Cloud Print Settings
   Proxy Server :
   Proxy Server Port No. : 8080
   Proxy User ID :                    ▶
   Proxy Password :
```

```
Google Cloud Print Settings
   Proxy Server :
   Proxy Server Port No. : 8080
   Proxy User ID :
   Proxy Password :                   ▶
```
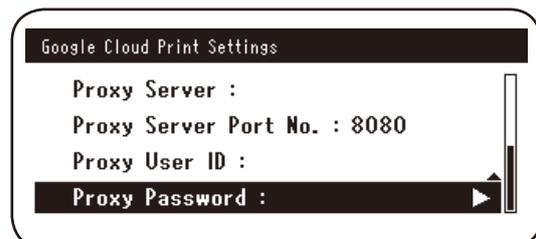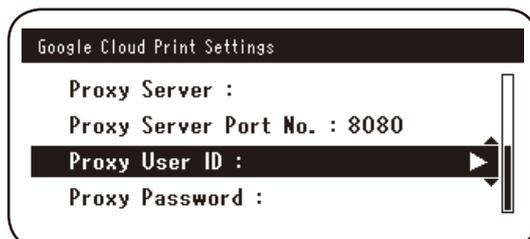
5 Register the Oki Data device to Google Cloud Print.

Select [**Setting**]-[**Google Cloud Print**]-[**Register to Google Cloud Print**].
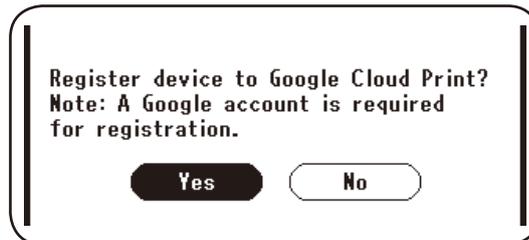
```
 Setting/Google Cloud Print

  Register to Google Cloud Print    ▶
  Google Cloud Print Settings       ▼
```
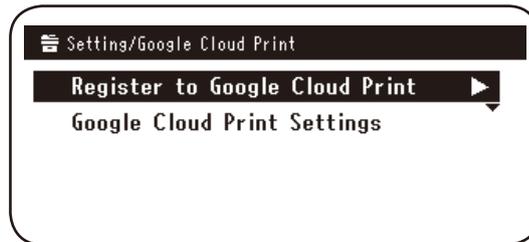
6 [**Register device to Google Cloud Print? Note: A Google account is required for registration.**] will be displayed. Select [**Yes**].

```
  Register device to Google Cloud Print?
  Note: A Google account is required
  for registration.

        Yes            No
```
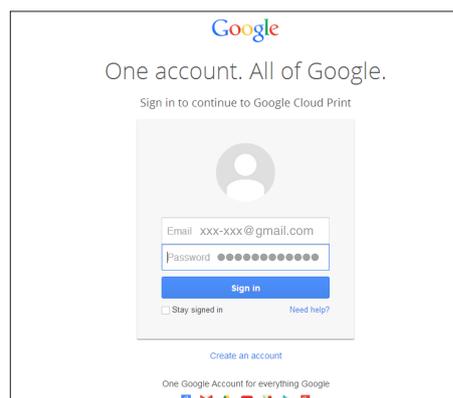
7 The authentication URL will be displayed, so click the "OK" button on the control panel to print.

```
         Checking authentication process.

  Access the following
  URL from the terminal in use.
  URL:http://goo.gl/printer/G2My

      Up                    Down
```
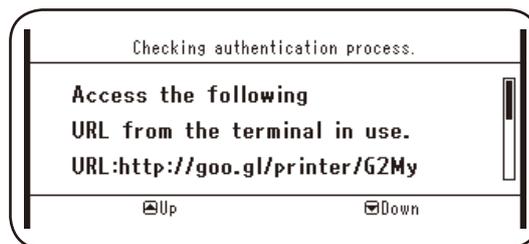
> **Note!** **There is a time limit to the registration (authentication) process. (Approx. 10 mins.)**
> **Proceed to Step 12 within this time to complete your registration. If unable to finish within this time, or an error message is displayed, return to Step 5, and re-register.**

8 Access the authentication URL printed in Step 7 from a PC or mobile device.

9 The Google account login screen will be displayed. Enter your Google account information, and click [**Sign in**].

```
              Google
       One account. All of Google.
     Sign in to continue to Google Cloud Print



     Email  xxx-xxx@gmail.com
     Password ●●●●●●●●●●●●
               Sign in
     □ Stay signed in        Need help?

          Create an account

     One Google Account for everything Google
```

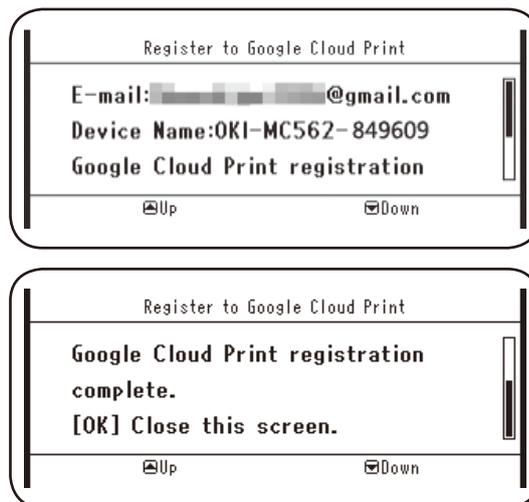**10** The registration screen will be displayed. Click [**Finish printer registration**].
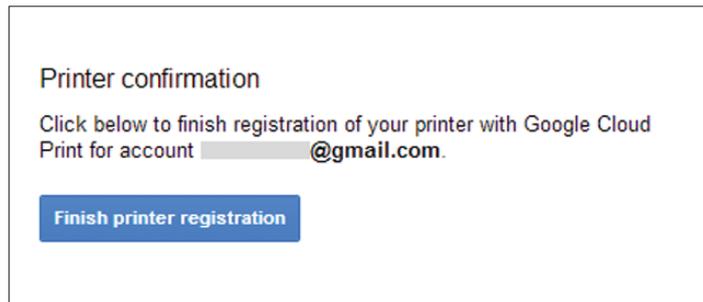
11 Wait until [**Thanks, you're ready to go!**] is displayed.
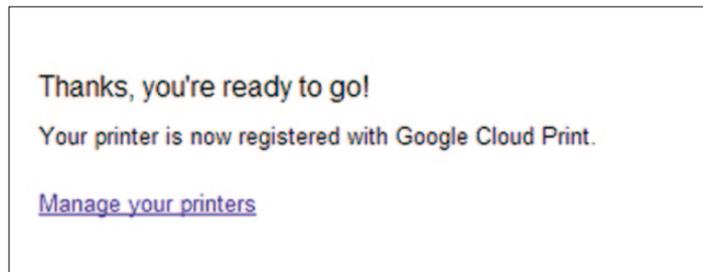
12 The registration details and registration completed message will be displayed in the control panel of the Oki Data product. Scroll down the screen to check the message.

13 Click the "OK" button in the control panel.

This completes the registration.

3. Printing

> **Note!**
> - **If printing using printer drivers, or if printing from an actual Oki Data device itself, the print quality may differ.**
> - **PDF files using transparency effects may not be printed correctly.**
> - **Encrypted PDF files may not be printed.**

Automatic printing

Printing starts automatically when the print data is sent to an Oki Data device registered to Google Cloud Print.

1 Check that the power supply to the Oki Data device is turned ON.

2 Start an application compatible with Google Cloud Print, such as Google Chrome, Gmail, or Google Drive, etc., from a PC or mobile terminal.

3 Tap the wrench icon or pull-down menu in the application, and select [**Print**] from the pull-down menu that is displayed.

4 Select the registered Oki Data device from the displayed screen.
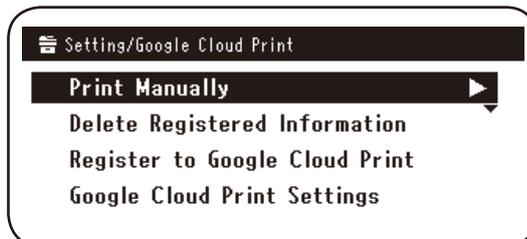
5 Make the print setup to print.

> **Memo**
> **Use the Google account used to register the Oki Data device to Google Cloud Print when printing.**
> **To use another Google account to print, it is necessary to make the [Share] setup supplied by the Google Cloud Print service.**

Manual printing

If automatic printing is disabled, or to start printing immediately after the data has been sent, use manual printing.

1 Check that the power supply to the Oki Data device is turned ON.

2 Select [**View Information**]-[**Google Cloud Print**]-[**Print Manually**].

> 🖶 Setting/Google Cloud Print
> **Print Manually** ▶
> Delete Registered Information
> Register to Google Cloud Print
> Google Cloud Print Settings

3 Any print data on the Google Cloud Print Service will be printed.

> **Memo**
> **To print manually, set the [Using Cloud Service] to either [Enable] or [Pause].**
> **For [Using Cloud Service], see "Changing Cloud Print use setup" (Page 15).**

Changing the print setup

To change the print setup, select [**Option**] in the selection screen of the printer displayed when printing from a compatible application.

Canceling printing

To cancel during printing, cancel from the Oki Data device.

If printing has not started, access the Google Cloud Print administrator screen (https://www.google.com/cloudprint), and delete the print job.

4. Troubleshooting

Cannot register Oki Data device

If unable to register the Oki Data device to Google Cloud Print, implement registration again from the start according to the procedure in "2. Print Preparations" (Page 6).

Cannot print

1 Refer to "Checking Google Cloud Print registration" (Page 14), and check that the Oki Data device is correctly registered to Google Cloud Print.

   If the device is not registered, implement registration according to "2. Print Preparations" (Page 6).
   If the device is registered, go to Step **2**.

2 Access the website stored in the Oki Data device (http://(Oki Data device IP address)), and check the connection status.

   If either [**XMPP Status**] or [**HTTP Status**] in [**Administrator Login**]-[**View Information**]-[**Network**]-[**Google Cloud Print**] is [**Error (Error Code)**], implement the countermeasures described in "An error code is displayed" (Page 13).

Memo	**The default factory [Administrator Login] user name setting is "root", and the password is "aaaaaa".**

If using a company network, check that the XMPP (5222) port is open.

Memo	**For details of the network in use, consult your network administrator.**

An error code is displayed

If an error occurs, an error code (8 digit alphanumeric) will be displayed on the control panel of the Oki Data device in use. Check either the first 3 digits or last 2 digits of the error code, and implement troubleshooting according to the troubleshooting methods in the error code table.

Error code table

"x" in the error code indicates a user-defined alphanumeric.

Error code	Countermeasure
0 0 0 0 0 0 0 0	Operations are normal.
1 0 a x x x 1 3	Connection error to the HTTP server (server authentication error). Access the website stored in the Oki Data device (http://(Oki Data device IP address)), and check the imported CA license. Alternatively, update the firmware.
1 0 b x x x 1 3	
1 0 c x x x 1 3	
1 0 a x x x 1 6	Connection error to the proxy server (server authentication error). Access the website stored in the Oki Data device (http://(Oki Data device IP address)), and check the imported CA license. Alternatively, update the firmware.
1 0 b x x x 1 6	
1 0 c x x x 1 6	
1 0 3 x x x 8 3	Connection error to the XMPP server (server authentication error). Access the website stored in the Oki Data device (http://(Oki Data device IP address)), and check the imported CA license. Alternatively, update the firmware.
1 0 b x x x 8 3	
1 0 3 x x x 8 6	Connection error to the proxy server (server authentication error). Access the website stored in the Oki Data device (http://(Oki Data device IP address)), and check the imported CA license. Alternatively, update the firmware.
1 0 b x x x 8 6	
x x x x x x 1 1	A DNS server error has occurred. Check the DNS server settings of the Oki Data device. (Page 6)
x x x x x x 1 2	Connection to the HTTP server failed. The connection failure was caused by the network environment in use. Check with the network administrator.
x x x x x x 1 3	HTTP server connection error. The connection failure was caused by the network environment in use. Check with the network administrator.
x x x x x x 1 4	A DNS server error has occurred. Check the DNS server settings or proxy server name in the Oki Data device. (Page 6, Page 7)
x x x x x x 1 5	Connection to the proxy server failed. Check the proxy server settings in the Oki Data device. (Page 7) If the problem is still not solved, consult your network administrator.
x x x x x x 1 6	This is a proxy server connection error. The connection failure was caused by the network environment in use. Check with the network administrator.
x x x x x x 1 7	This is a proxy server authentication error. Check the proxy server settings in the Oki Data device. (Page 7) If the problem is still not solved, consult your network administrator.

Error code	Countermeasure
x x x x x x **8 1**	A DNS server error has occurred. Check the DNS server settings of the Oki Data device. (Page 6)
x x x x x x **8 2**	Connection to the XMPP server has failed. Check that the XMPP (5222) port is open. If the problem is still not solved, consult your network administrator.
x x x x x x **8 3**	Connection to the XMPP server has failed. Check that the XMPP (5222) port is open. If the problem is still not solved, consult your network administrator.
x x x x x x **8 4**	A DNS server error has occurred. Check the DNS server settings or proxy server name in the Oki Data device. (Page 6, Page 7)
x x x x x x **8 5**	Connection to the proxy server failed. Check the proxy server settings in the Oki Data device. (Page 7) If the problem is still not solved, consult your network administrator.
x x x x x x **8 6**	This is a proxy server connection error. Check that the XMPP (5222) port is open. If the problem is still not solved, consult your network administrator.
x x x x x x **8 7**	This is a proxy server authentication error. Check the proxy server settings in the Oki Data device. (Page 7) If the problem is still not solved, consult your network administrator.

Checking Google Cloud Print registration

Google Cloud Print administration screen

Access the Google Cloud Print administration screen (https://www.google.com/cloudprint). Enter your Google account information, and click [**Login**].
Click [**Print**] to display the registered printer.

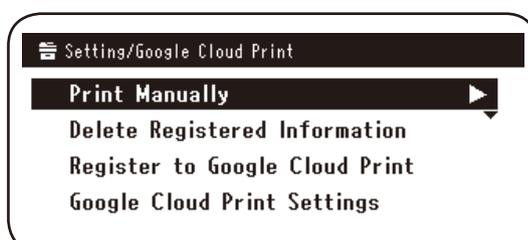### Websites stored in the Oki Data device

Access the website stored in the Oki Data device (http://(Oki Data device IP address)), and check that [**Registered**] is displayed in [**Administrator Login**]-[**View Information**]-[**Network**]-[**Google Cloud Print**].

Memo **The default factory [Administrator Login] user name setting is "root", and the password is "aaaaaa".**

Oki Data device control panel

Select [**Setting**]-[**Google Cloud Print**], and check that the four items below are displayed.

14

Checking/changing Cloud Service use setup

Checking the Cloud Service use setup

Access the website stored in the Oki Data device (http://(Oki Data device IP address)), and check [**Administrator Login**]-[**View Information**]-[**Network**]-[**Google Cloud Print**]-[**Using Cloud Service**]. The use status is one of the following three options.

Enable: Both automatic and manual printing are enabled.

Pause: Manual printing is enabled. Set if you want to disable automatic printing.

Disable: Printing is disabled. Set to pause the use of Google Cloud Print.

| Memo	The default factory [Administrator Login] user name setting is "root", and the password is "aaaaaa".

Changing Cloud Print use setup

Use the following procedure to change the Google Cloud Print service use setup.

Websites stored in the Oki Data device

Access the website stored in the Oki Data device (http://(Oki Data device IP address), and change the setup using [**Admin Setup**]-[**Network Menu**]-[**Google Cloud Print**]-[**Using Cloud Service**].

Oki Data device control panel

Select [**Setting**]-[**Google Cloud Print**]-[**Google Cloud Print Settings**]-[**Using Cloud Service**], and change the setup.
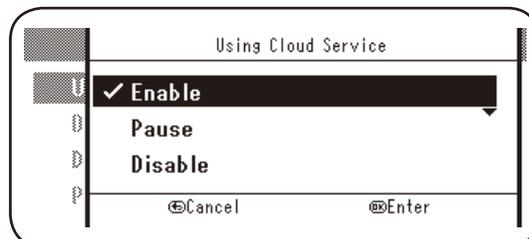
Operations using sleep mode setup

If [**Using Cloud Service**] is set to [**Enable**], sleep mode will not activate even if [**Sleep Mode**] has been set to [**ON**] in the Oki Data device.

If using the Oki Data device sleep mode, set the Google Cloud Print service to either [**Pause**] or [**Disable**].

Deleting registered information

Deleting registered information

Use the following procedure to delete the Oki Data device information registered to Google Cloud Print.

1 Check that the Oki Data device is connected to the network.

> **Memo** **If the Oki Data device is connected to the network, the Google Cloud Print administration screen (https://www.google.com/cloudprint) information will be deleted simultaneously.**

2 From the control panel, select [**Setting**]-[**Google Cloud Print**]-[**Delete Registered Information**].

```
Setting/Google Cloud Print
  Print Manually
  Delete Registered Information  ▶
  Register to Google Cloud Print
  Google Cloud Print Settings
```

3 Select [**Yes**].

```
Delete registered information
from Google Cloud Print?

   Yes        No
```
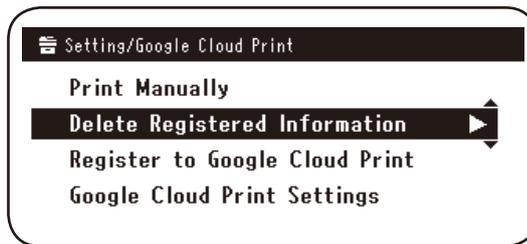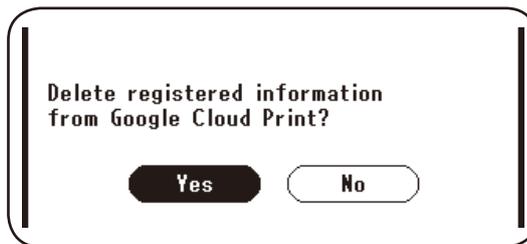
4 When deletion has finished, the following screen will be displayed.

```
Setting/Google Cloud Print

   Registered information deleted
   from Google Cloud Print.
```
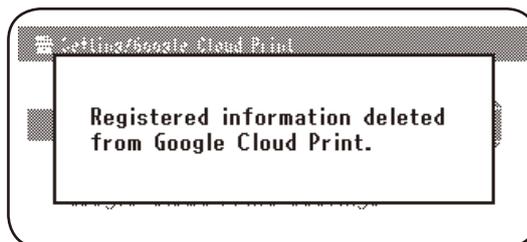
Checking that deletion is complete

Google Cloud Print administration screen

Access the Google Cloud Print administration screen (https://www.google.com/cloudprint).
Enter your Google account information, and click [**Login**].
Click [**Print**], and check that the registered printer has been deleted.

Websites stored in the Oki Data device

Access the website stored in the Oki Data device, and check [**Administrator Login**]-[**View Information**]-[**Network**]-[**Google Cloud Print**].

> **Memo** **The default factory [Administrator Login] user name setting is "root", and the password is "aaaaaa".**

Oki Data device control panel

Select [**Setting**]-[**Google Cloud Print**].

If the information has been deleted, the two items [**Register to Google Cloud Print**] and [**Google Cloud Print Settings**] will be displayed.

If there is registration information remaining in the Google Cloud Print administration screen

If registration information was deleted according to the procedure described in "Deleting registered information" (Page 16) while the Oki Data device was not connected to the network, the Oki Data device registered to the Google Cloud Print administration screen (https://www.google.com/cloudprint) may still remain. If so, use the Google Cloud Print administration screen to delete the Oki Data device.

If information has been deleted from the Google Cloud Print administration screen

If the Oki Data device has been deleted from the Google Cloud Print administration screen (https://www.google.com/cloudprint) in error, the registration information will still remain in the Oki Data device. In this case, also delete the registered information from the Oki Data device control panel.

1 Select [**Setting**]-[**Google Cloud Print**]-[**Delete Registered Information**].

```
Setting/Google Cloud Print
   Print Manually
   Delete Registered Information    ▶
   Register to Google Cloud Print
   Google Cloud Print Settings
```

2 Select [**Yes**].

```
Delete registered information
from Google Cloud Print?

      Yes          No
```
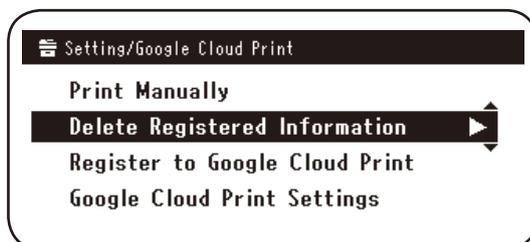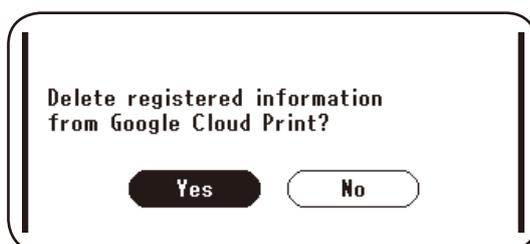
Importing proxy server CA licenses

CA licenses can be imported from the website stored in the Oki Data device (http://(Oki Data device IP address)).
Specify the license issued by the licenser entrusted with the proxy server. PEM, DER, and PKCS#7 files can be imported.

> **Memo** **For details of the network in use, consult your network administrator.**

Oki Data Corporation