

Network Settings Startup Guide



MIMAKI ENGINEERING CO., LTD.

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About this manual

This manual explains the setting procedures for connecting Mimaki printers and plotters compatible with network functions to a network, and how to use them with that network by using a typical network configuration as an example for this explanation

Network functions of Mimaki printers and plotters consist of the "Event Mail" and "Network Printing/Plotting" functions.

- Event Mail Function : Printer/Plotter unit function that notifies users by e-mail of operations such as start, end, ink depleted and media jam during printing jobs.
- Network Printing/Plotting Function:
 - Function that sends printing jobs to a printer/plotter unit from a personal computer via a network.

Some functions might not be supported depending on the printer/plotter you are using. For details, refer to the "Network Function Compatibility Table".

This document explains the network set-up procedure using Windows 7 as an example.



About other NetworkConfigurator and Network Setting Guide

Although the Network Configurator is contained on the included manual CD, the most recent version can be found on the Mimaki Engineering website (http://eng.mimaki.co.jp/download/). Please download Ver. 1.2 or later if the version of your current Network Configurator is Ver. 1.1 or earlier. Version information for the Network Configurator is displayed on the title bar.



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Using the Event Mail Function

Model case

The network environment used as an example for explanation satisfies the following four conditions.

- (1) The printer/plotter and personal computer are connected to a LAN that can automatically obtain an IP address.
- (2) The LAN described in (1) can be connected to the Internet.^{*1}
- (3) The terminal receiving mail can be connected to the Internet.*1
- (4) You have your own mail account (Gmail cannot be used).*1*2*3



• Although this does not apply to this case, the event mail function can also be used with static IP address allocation.

• If a printer or plotter is compatible with both "Event Mail" and "Network Printing/Plotting" functions, "Network Printing/Plotting" can be used by implementing the "Event Mail" settings. It is not necessary to separately specify the "Network Printing/Plotting" settings.

- *1. Although the above model case shows an example with an Internet-connected environment, an Internet-connected environment is not required if you have a mail server within your LAN and mail can be received from that LAN.
- *2. A mail service (such as Gmail) that requires SSL communication with the source address cannot be used.
- *3. Specify settings so that event mail is not judged to be spam mail by the spam mail filter. It is sufficient to specify settings so that mail from the sending address is allowed to pass through the filter. If you are not sure how to specify the actual settings, please inquire with the corresponding mobile phone company or administrator (provider) of the receiving mail server.

Items you must provide

Internet-connected envi- ronment	Contracted with Internet carrier or provider
Sending mail account ^{*1}	
Receiving mail account ^{*2}	
Router	
Network HUB	Required amount of units
LAN cable	Required amount of cables
Personal computer	Windows XP SP3, Windows Vista SP2, Windows 7 SP1, Windows 8, with each one being 32/64-bit compatible NET Framework 3.5 must be installed
Printer/Plotter	Mimaki product that is compatible with the network function (Refer to the "Network Function Compatibility Table" for compatible models.)
NetworkConfigurator	Network settings application provided by Mimaki

*1. A mail service (such as Gmail) that requires SSL communication with the source address cannot be used.

*2. Specify settings so that event mail is not judged to be spam mail by the spam mail filter. It is sufficient to specify settings so that mail from the sending address is allowed to pass through the filter. If you are not sure how to specify the actual settings, please inquire with the corresponding mobile phone company or administrator (provider) of the receiving mail server.

Flow of Settings

The procedures for using the settings of the event mail function.



Step1: Connect the Printer/Plotter and Personal Computer with the LAN

Perform the following procedures with the printer/plotter and personal computer.

Printer / Plotter Turn off the printer/plotter power, and connect the printer/plotter to the network hub by using a LAN cable. Printer / Plotter Refer to the "Names of Parts and Functions" section of the printer/plotter is unclear. Personal computer Turn off the personal computer power, and connect the personal computer to network hub by using a LAN cable. Refer to the "Names of Parts and Functions" section of the printer/plotter is unclear. Turn off the personal computer power, and connect the personal computer to network hub by using a LAN cable. Refer to the personal computer operation manual if the LAN connector location of your personal computer is unclear. Turn off the personal computer operation manual if the LAN connector location of your personal computer is unclear.

Step2: Check the Printer/Plotter Network Settings

Turn on the printer/plotter power.

From the printer/plotter operation panel, specify [ON] for DHCP (automatic IP address acquisition).

• Default setting is "ON".

• Operation differs depending on the model. For details, refer to the "Set the network" section of the printer/plotter operation manual.

3 Referring to the "Set the network" section of the printer/ plotter operation manual, check the IP address allocated to the printer/plotter.

Check IP Address 192.168.100.101

• If the IP address is "169.254.*.*", either the LAN cable connection is faulty or the environment is such that an IP address cannot be automatically obtained. In such cases, consult the network administrator or installation personnel.



After checking, return to the <LOCAL> screen.

Step3: Check the Network Settings of the Printer/Plotter and Personal Computer

Turn on the personal computer power.

Remote Desktop Connection Start up the command prompt. Help and Support Magnifier Imput the "cmd" (1) Click the Start button. (2) Input [cmd] into "Search programs and files". All Programs (3) Press the [ENTER] key. Shut down 👂 arch programs and files Q 0 Click Input "Ping (space) 'IP address C:\Windows\system32\cmd.exe C:\Users\Masahiro Yamazaki>ping 10.16. of the printer/plotter you just checked'" and press the [ENTER] key. IP address of the ping Single-byte space printer/plotter · Only enter single-byte (Important!) characters. Press the [Enter]key.

- If there is a response returned from the printer, continue to "Step 4: Install the Network Configurator" on page 11.
- If no response is returned from the printer as shown in the window on the right, perform the procedures indicated in "Appendix 1.
 Switching the IP Address Acquisition Settings of a Personal Computer to Automatic" on page 34. After which, perform the procedures of "Step3: Check the Network Settings of the Printer/Plotter and Personal Computer" again.



Step4: Install the Network Configurator

Although the Network Configurator is contained on the included manual CD, the most recent version can be found on the Mimaki Engineering website (http://eng.mimaki.co.jp/download/). Please download Ver. 1.2 or later if the version of your current Network Configurator is Ver. 1.1 or earlier. (Refer to Page 13 "Install from the Mimaki Website")

Install from CD-ROM

Insert the "Operation Manual" CD-ROM that comes with the printer/plotter into the CD-ROM drive.

2 Click "Network Configurator" after the launcher starts up.

• The screen is for CG-SRIII.

• If the launcher does not start up, open the CD-ROM drive in Explorer and double-click on "Menu.exe".





3 After the folder containing the "Network Configurator" opens, copy the "Network Configurator" to your desktop.





Install from the Mimaki Website

The actual download procedures might be different from the download procedures explained in the documentation.

Follow the actual download procedures.



displayed.



4	Click Browse.	Network Configurator V1.2
5	Select "Desktop" as the location to save the file and click OK .	Browse for Folder Please select a folder to store the extracted files. Desktop Select Network Libraries Computer Floppy Disk Drive (A:) Local Disk (C:) PerfLogs Program Files Windows
6	Click OK .	Network Configurator V1.2 Please type the location where you want to place the extracted files. C:\Users\
7	"NetworkConfigurator.exe" is extracted to your desktop. • The release notes and manual are also extracted.	Network_Config Unatorexe

Step5: Specify Event Mail Items



Double-click the icon



on your desktop.

2 The printer/plotter information is displayed in the Machine List. Select the name of the printer/ plotter and click Select.

• If the printer/plotter information (Important!) is not displayed in the Machine List, it is possible that the printer/plotter and personal computer have not been properly connected to the network. Refer to "'Not Found' is displayed in the list box and you cannot get the printer list, or Communication cannot be established with the machine of the address input as the Direct Address" troubleshooting procedure under "Set the Network", and perform the corresponding recovery procedures.



3 Check [IP address (Info.)] on the displayed Network Configurator settings window.

- Check that the displayed [IP address (Info.)] is the same as the printer/plotter IP address that was checked in procedure 3 of "Step2: Check the Printer/Plotter Network Settings" on page 9.
- It is not necessary to change the "Network Settings".

Network Configurator V1.2 **Network Configurator Network Settings** Machine Name 📃 Auto IP Allocate IP Address V DHCP Check IP address (Info.) 192 168 100 15 IP address (Setting) 0 0 0 0 24 Subnet Mask (Setting) Gateway (Setting) 0 Û Û 0 DNS Server (Setting) 0 0 0 0

		(A) Send to Address	sample1@aa.mimakixx
Mail Server Sett	ngs	(B) Mail Title	MyALERT
(1) SMTP Server Address	mail.mimaki.xx	(7) Sender Mail Address	sample1@aa.mimakixx
(2) SMTP Port No.	25		
(3) POP3 Server Address	pop.mimakixx		Test Mail Transmit
(4) User Account	sample1		
(5) User Password	***		

- Enter values for (1) to (7) that are appropriate for the environment you are using. If you do not know a set value, refer to the mailer set values in Outlook 2010 or similar program.
 (A) [Send to Address]: Enter the mail address of the event mail destination.
- (B) [Mail Title]: Enter the mail title. This will be displayed as the title of received mail.

Example: Outlook 2010 Settings Window	Internet E-mail Settings
<form><form><form><complex-block><complex-block></complex-block></complex-block></form></form></form>	General Outgoing Server Connection Advanced Server Port Numbers Incoming server (POP3): 110 Use Defaults This server requires an encrypted connection (SSL) Qutgoing server (SMTP): 25 (2) Lise the following twee of encrypted connection: SSI Internet E-mail Settings General Outgoing Server Connection Advanced Why gutgoing server (SMTP) requires authentication Use same settings as my incoming mail server (6) Log on using User Name: Password: Reguire Secure Password Authentication (SPA) Outgoing on to incoming mail server before sending mail
(Important!) • (6)Authentic Method	OK Cancel
Do not select "OFF". Specify "ON" for "APOP". Use with the following combinatio	ons.

Outlook 2007 Settings	Network Configurator Settings
"My outgoing server (SMTP) requires authenti- cation": ON	Select "SMTP Auth."
"My outgoing server (SMTP) requires authenti- cation": OFF	Select "POP Before SMTP"

5 Check "Event Mail Function" to enable the event mail function.	Event Mail Settings
 6 Use the "Event Mail Settings" to select the event(s) for which mail is sent. The details of each item differ for each model. Refer to the printer/plotter operation manual. Items that are not selected are grayed-out. 	Event Mail Settings Event Mail Function Print Start Print End Plot or Cut Start Plot or Cut End Error Other Other
7 Click Commit when settings are completed.	Rebut Load from tile Save to file Connet Exit
 8 Click Test Mail Transmit in order to check that mail is sent to the destination address specified in procedure 4. A few minutes might be required for the mail to arrive depending on various conditions. This does 	Send to Address sample 1@aa.mimakixx Mail Title MyALERT Sender Mail Address sample 1@aa.mimakixx Click Test Mail Transmit

If an error code is displayed in the LCD of the printer/plotter, refer to the list of error codes of "Send a test e-mail" in the printer/plotter operation manual and perform the corresponding recovery procedures.

• If no error code is displayed, refer to "E-mail can't be sent.(After the test mail is sent, an error code isn't displayed.)" on page 7 of the Network Setting Guide.



Using the Network Printing/Plotting Function (With Automatic IP Address Allocation)

Model case

The network environment used as an example for explanation satisfies the following condition.

(1) The printer/plotter and personal computer are connected to a LAN that can automatically obtain an IP address.



• An Internet connection is not necessary.

• It is assumed that the network to which the printer/plotter and personal computer are connected has DHCP service enabled.

Items you must provide

(Important!)

Router	A personal computer or server that can allocate an IP address can also be used.
Network HUB	Required amount of units
LAN cable	Required amount of cables
Personal computer	Windows XP SP3, Windows Vista SP2, Windows 7 SP1, Windows 8, with each one being 32/64-bit compatible
Printer/Plotter	Mimaki product that is compatible with the network function (Refer to the "Network Function Compatibility Table" for compatible models.)

Flow of Settings

Perform the following procedures to specify the settings required in order to use the network printing/plotting function.



Step1: Connect the Printer/Plotter and Personal Computer with the LAN

Perform the following procedures with the printer/plotter and personal computer.

Printer / Plotter Turn off the printer/plotter power, and connect the printer/plotter to the network hub by using a LAN cable. Printer / Plotter Refer to the "Names of Parts and Functions" section of the printer/plotter is unclear. Personal computer Turn off the personal computer power, and connect the personal computer to the network hub by using a LAN cable. Refer to the "Names of Parts and Functions" section of the printer/plotter is unclear. Turn off the personal computer power, and connect the personal computer to network hub by using a LAN cable. Refer to the personal computer operation manual if the LAN connector location of your personal computer is unclear. Turn off the personal computer operation manual if the LAN connector location of your personal computer is unclear.

Step2: Check the Printer/Plotter Network Settings

Turn on the printer/plotter power.

From the printer/plotter operation panel, specify [ON] for DHCP (automatic IP address acquisition).

• Default setting is "ON".

• Operation differs depending on the model. For details, refer to the "Set the network" section of the printer/plotter operation manual.

3 Referring to the "Set the network" section of the printer/ plotter operation manual, check the IP address allocated to the printer/plotter.

Check IP Address 10. 16.***.**

• If the IP address is "169.254.*.*", either the LAN cable connection is faulty or the environment is such that an IP address cannot be automatically obtained. In such cases, consult the network administrator or installation personnel.



After checking, return to the <LOCAL> screen.

Step3: Check the Network Settings of the Printer/Plotter and Personal Computer

Turn on the personal computer power.

"Step3: Check the Network Settings of the Printer/Plotter and Personal Computer" again.

Remote Desktop Connection Start up the command prompt. Help and Support Magnifier Imput the "cmd" (1) Click the Start button. (2) Input [cmd] into "Search programs and files". All Programs (3) Press the [ENTER] key. Shut down 👂 rch proarams and files Q 0 Click Input "Ping (space) 'IP address C:\Windows\system32\cmd.exe C:\Users\Masahiro Yamazaki>ping 10.16. of the printer/plotter you just checked'" and press the [ENTER] key. IP address of the Single-byte ping space printer/plotter · Only enter single-byte (Important!) characters. Press the [Enter]key. • Procedures are completed when a response is returned from the printer. · If no response is returned from the printer as shown in the window on the right, perform the procedures indicated in "Appendix 1. Switching the IP Address Acquisition Settings ics for 19.168. . : of a Personal Computer to Automatic" on page 34. After which, perform the procedures of

Using the Network Printing/Plotting Function (With a Static IP Address)

Model case

The network environment used as an example for explanation satisfies the following condition. (1) Connect the printer/plotter and personal computer to a LAN using a static IP address.

Model case



• The IP address shown above is an assumed IP address for the purposes of explanation. When specifying the actual settings, specify an IP address and subnet mask that match your environment.

Items you must provide

Network HUB	Required amount of units
LAN cable	Required amount of cables
Personal computer	Windows XP SP3, Windows Vista SP2, Windows 7 SP1, Windows 8, with each one being 32/64-bit compatible
Printer/Plotter	Mimaki product that is compatible with the network function (Refer to the "Network Function Compatibility Table" for compatible models.)

Flow of Settings

Perform the following procedures to specify the settings required in order to use the network printing/plotting function.



Step1: Connect the Printer/Plotter and Personal Computer with the LAN

Perform the following procedures with the printer/plotter and personal computer.

Connect the printer/plotter and personal computer to the network.

Printer / Plotter	Turn off the printer/plotter power, and connect the printer/plotter to the net- work hub by using a LAN cable. Refer to the "Names of Parts and Functions" section of the printer/plotter operation manual if the LAN connector location of the printer/plotter is unclear.
Personal computer	Turn off the personal computer power, and connect the personal computer to network hub by using a LAN cable. Refer to the personal computer operation manual if the LAN connector loca- tion of your personal computer is unclear.

Step2: Specify the Static IP address in the Printer/Plotter

Turn on the printer/plotter power.

2 From the printer/plotter operation panel, specify [OFF] for DHCP (automatic IP address acquisition) and enter the following values. IP Address: 192.168.100.10 Subnet mask: 24

Printer/Plotter Subnet Mask Values	Subne	et mas	k	Printer/Plotter Subnet Mask Values	Subnet mask
8	255. 0.	0.	0	20	255. 255. 240. 0
9	255. 128.	0.	0	21	255. 255. 248. 0
10	255. 192.	0.	0	22	255. 255. 252. 0
11	255. 224.	0.	0	23	255. 255. 254. 0
12	255. 240.	0.	0	24	255. 255. 255. 0
13	255. 248.	0.	0	25	255. 255. 255. 128
14	255. 252.	0.	0	26	255. 255. 255. 192
15	255. 254.	0.	0	27	255. 255. 255. 224
16	255. 255.	0.	0	28	255. 255. 255. 240
17	255. 255.	128.	0	29	255. 255. 255. 248
18	255. 255.	192.	0	30	255. 255. 255. 252
19	255. 255.	224.	0		

• Operation differs depending on the model. For details, refer to the "Set the network" section of the printer/plotter operation manual.



After checking, return to the <LOCAL> screen.

Step3: Specify the static IP address in the personal computer

For setting procedures refer to "Appendix 2. Switching the IP Address Acquisition Settings of a Personal Computer to Static IP Address" on page 38.

Step4: Check the Network Settings of the Printer/Plotter and Personal



Using the Network Printing/Plotting Function

(If the Printer/Plotter and Personal Computer are Directly Connected by using a LAN Cable)

Model case

The network environment used as an example for explanation satisfies the following condition. (1) Network in which the printer/plotter and personal computer are connected one-to-one.



Items you must provide

LAN cable	Required amount of cables
Personal computer	Windows XP SP3, Windows Vista SP2, Windows 7 SP1, Windows 8, with each one being 32/64-bit compatible
Printer/Plotter	Mimaki product that is compatible with the network function (Refer to the "Network Function Compatibility Table" for compatible models.)

Flow of Settings

Perform the following procedures to specify the settings required in order to use the network printing/plotting function.



Step1: Connect the Printer/Plotter and Personal Computer by Using a LAN Cable

Perform the following procedures with the printer/plotter and personal computer.



賞

Directly connect the printer/plotter and personal computer using a LAN cable.

- Turn off the printer/plotter power, and connect the printer/plotter and personal computer by using a LAN cable.
 - Refer to the "Names of Parts and Functions" section of the printer/plotter operation manual if the LAN connector location of the printer/plotter is unclear.
 - Refer to the personal computer operation manual if the LAN connector location of your personal computer is unclear.

Step2: Check the Printer/Plotter Network Settings

Turn on the printer/plotter power.

From the printer/plotter operation panel, specify [ON] for Auto IP (IP address self-allocation).

• Operation differs depending on the model. For details, refer to the "Set the network" section of the printer/plotter operation manual.



After checking, return to the <LOCAL> screen.

Check	ΙP	Addre	s s
169.25	4.	49.	8

Turn the power OFF.

Turn on the printer/plotter power.

Referring to the "Set the network" section of the printer/plotter operation manual, check the IP address allocated to the printer/plotter.

• Check that the IP address is "169.254.*.*". If it is not this address, it is possible that there is a settings error or connection fault. Check the settings and connection.



After checking, return to the <LOCAL> screen.

Step3: Check the Network Settings of the Printer/Plotter and Personal Computer

Turn on the personal computer power.



Appendix 1. Switching the IP Address Acquisition Settings of a Personal Computer to Automatic

Appendix 1. Switching the IP Address Acquisition Settings of a Personal Computer to Automatic





2 From the Network and Sharing Center, select "View network status and tasks".

P + Control Panel + Network	and Internet +	
Control Patral Hours System and Society Headware and Society Headware and Society Pageson User Accesses and Romy Agenerics and Cont, Capangan and Hagan Lea of Access	Network and Sharing Centry the method and of Lass. Control To a sector HomeGroup Danas homegoe of Analy gettion. Betteret Option Chang homegoe : Manag homes add um : Date home	billing induced

3 Select the LAN connection method.

- This case shows an example of a connection using a wired LAN.
- Click the "Kocal Area Connection"











IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	02:13:21
Speed:	1.0 Gbps
Details	
Activity ———	Sent — Received
Bytes:	1, 196, 753 13, 857, 800
Properties	Diagnose
	ClickClose





Appendix 2. Switching the IP Address Acquisition Settings of a Personal Computer to Static IP Address

Check the following items if specifying a static IP address for the personal computer IP address. Inquire with the LAN administrator if you have any doubts or concerns.

• Personal computer IP address

Subnet mask

(•Default gateway address (Required if communicating beyond the router))

(•DNS server address (Required if communicating via the Internet or other methods besides the LAN.))

Below is an explanation of an example using the following set values.

Personal Computer IP Address	192.168.100.20
Subnet mask	255.255.255.0 (24 using CIDR notation)
Default gateway	Not specified
DNS server	Not specified



From the Network and Sharing
Center, select "View network status and tasks".





General	
Connection	
IPv4 Connectivity:	Internet
IPv6 Connectivity: No ne	twork access
Media State:	Enabled
Duration:	02:13:21
Speed:	1.0 Gbps
Details	
Activity	
Sent — 💵 —	Received
Click 1,196,753	13,857,800
Properties Diagnose Diagnose	
	Close

5 Select [Internet Protocol Version 4 (TCP/IPv4)] and click

Properties.

4

Local Area Connection Properties	
Networking	
Connect using:	
Intel(R) PRO/1000 MT Network Connection	
<u>C</u> onfigure	
This connection uses the following items:	
 ✓ User for Microsoft Networks ✓ ■QoS Packet Scheduler 	
☑ 📮 File and Printer Sharing for Microsoft Networks	
Select	
🗹 📥 Link-Layer Topology Discovery Mapper I/O Driver	
Link-Layer Topology Discovery Responder	
Install	
Description	
vide area network protocol/Internet Protocol. Click across diverse interconnected networks.	
OK Cancel	

6 Select [Use the following address], enter the values in the [IP address] and [Subnet mask], and click _____K___.

- Enter the following values.
 - IP Address: 192.168.100.20
 - Subnet mask: 255.255.255.0

ſ	Internet Protocol Version 4 (TCP/IPv4) Properties	8 ×
	General	
	You can get IP settings assigned automatically if your network administration of the approximate IP settings. Select Output of the following IP address: IP address: IP address: IP address: IP address: IP address: Default gateway:	upports strator
	Obtain DNS server address automatically	Required if communicating via
	Use the following DNS server addresses: Preferred DNS server:	Unier methods besides the LAN.
	Alternate DNS server:	
	Validate settings upon exit	anced
	Click OK	Cancel
Click Close .	Uccal Are	a Connection Properties
	Networking	
	Connect u	sing:
	👰 Inte	I(R) PRO/1000 MT Network Connection
		<u>C</u> onfigure
	This conne	ection uses the following items:
		lient for Microsoft Networks
		ile and Printer Sharing for Microsoft Networks
	I I I I I I I I I I I I I I I I I I I	nternet Protocol Version 6 (TCP/IPv6)
		internet Protocol Version 4 (TCP/IPV4)
		ink-Layer Topology Discovery Responder
		all <u>U</u> ninstall Properties
	Allows y network	on rour computer to access resources on a Microsoft
		Click

Close

Cance



Connectori	
IPv4 Connectivity:	Internet
IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	02:13:21
Speed:	1.0 Gbps
D <u>e</u> tails	
Activity ———	Sent — 駴 — Received
Bytes:	1,196,753 13,857,800
Properties	Disable Diagnose
	Click Close





Memo



