

Using a Web Browser to Manage the IB-51

This section describes how to manage the IB-51 using a web browser.

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1. IB-51's Web Page Overview

Configure and monitor the IB-51 from the unit's internal webpage, through the IB-51's Web page. The IB-51's Web page is your web interface for managing the IB-51 from your computer. The computer and IB-51 are linked via TCP/IP.

Note:

Confirm the following points before accessing the IB-51's Web page.

- Your computer must support TCP/IP.
- The IB-51's IP address must be configured.

1-1. Compatible Systems

The IB-51's Web page can be used with these operating systems.

- Windows 2000 (32bit)
- Windows XP (32bit/64bit)
- Windows Vista (32bit/64bit)
- Windows 7 (32bit/64bit)
- Windows Server 2003 (32bit/64bit)
- Windows Server 2008 (32bit/64bit)
- Apple Macintosh OS X 10.x

1-2. Compatible Web Browsers

The following web browsers have been verified for the IB-51's Web page.

OS	Web Browser
Windows	Microsoft Internet Explorer 6.0 or newer
	Mozilla Firefox 1.5 or newer
	Chrome 1.0 or newer
	Safari 2 or newer
Mac OS	Safari 2 or newer

1-3. Accessing IB-51's Web page

1. Launch a web browser.
2. In the address bar, enter the IP address assigned to the IB-51 as the URL. The home page gives basic information about the IB-51 and shows the current status and control panel display.
3. Login to the IB-51's Web page by entering the user name and password.



- If "Network Authentication" is disabled on the printer/MFP, the default user name and password are "**Admin**".
 - If "Network Authentication" is enabled on the printer/MFP, the user name and password to be entered will change depending on the configuration of Windows Server or printer/MFP.
- For details, refer to the operation manual of the printer/MFP.

4. To view or configure settings, choose a category from the navigation bar on the left.



- Enclose the IPv6 address with "[]" before you enter it to the address bar of the Web browser.
Example: http://[FE80:0:0:2C0:EEFF:FE11:2233]/

2. Status Page

You can do the following from the Status Page.

- Change the display language of the IB-51's Web page
- Check the IB-51 network settings
- Check the IB-51's Wireless Settings
- Display the Web page of the printer/MFP that has the IB-51 attached

2-1. Home Page

Figure 1. IB-51's Web page Status Page

This is the first screen displayed after the IB-51's Web page is launched. You can check the status of the IB-51 from this page.

Item	Description
Language	Displayed for multilingual versions of the IB-51's Web page. Choose the desired language from the drop down list.

Note:

If the IB-51's Web page display language does not match the display language of the operation panel, some characters may not be displayed correctly.

2-2. Status Page < Network Status

On the Status page, you can check the settings for a range of operations executed using the control panel or IB-51's Web page, such as printing and network settings.

Page	Description
Status Pages > Network Status > General	For checking TCP/IP, IPv4, IPv6, AppleTalk, NetBEUI/NetBIOS, Protocol Settings, and LDAP settings. For TCP/IP, IPv4 and IPv6 details, refer to 4-1. Protocols > TCP/IP > TCP/IP . For AppleTalk details, refer to 4-9. Protocols > AppleTalk . For NetBEUI/NetBIOS details, refer to 4-10. Protocols > NetBEUI/NetBIOS . For Protocol Settings details, refer to 4-5. Protocols > Protocols > Server Settings or 4-6. Protocols > Protocols > Client Settings . For LDAP details, refer to 4-17. Management/E-mail > LDAP .
Status Pages > Network Status > IP Filters	For checking the range of IP address that can access the IB-51. If no IP address is specified, all addresses have access rights to the IB-51. For details, refer to 4-2. Protocols > TCP/IP > IP Filters (IPv4) or 4-3. Protocols > TCP/IP > IP Filters (IPv6) .
Status Pages > Network Status > SNMP	For checking the SNMP settings. For details, refer to 4-15. Management/E-mail > SNMP > General .
Status Pages > Network Status > POP3/SMTP	For checking e-mail-related settings. For details, refer to 4-11. Management/E-mail > SMTP > General or 4-13. Management/E-mail > POP3 > General .
Status Pages > Network Status > Logical Printers	For checking the logical printer settings. For details, refer to 4-4. Protocols > TCP/IP > Logical Printers .
Status Pages > Network Status > NetWare	For checking the NetWare page settings and status. For details, refer to 4-7. Protocols > NetWare > General .
Status Pages > Network Status > Security	For checking the security settings. For details, refer to 4-20. Security > Encryption > General or 4-5. Protocols > Protocols > Server Settings .

2-3 Status Pages > Wireless LAN Status

On this Status Page, you can check the wireless settings currently used by the IB-51.

Item	Description
Wireless LAN Status	Displays the current wireless status.
Current SSID	Displays the SSID configured for the IB-51.
BSSID	Displays the BSSID of the access point that the IB-51 is communicating with.
Current Channel	Displays the channel configured in the IB-51.
Transfer Rate	Displays the transmission rate.

2-4 CCRX > Printer/MFP

You can display the Web page of the printer/MFP that has the IB-51 attached.

If the printer/MFP does not support this feature, it is not displayed in the navigation bar.



3. General Settings Page

From this page, you can configure settings applicable to all aspects of IB-51 operation, such as Security and Network settings. You can restrict access to this page by setting an administrator password. Refer to [3-4. General Settings > Password](#) for details.

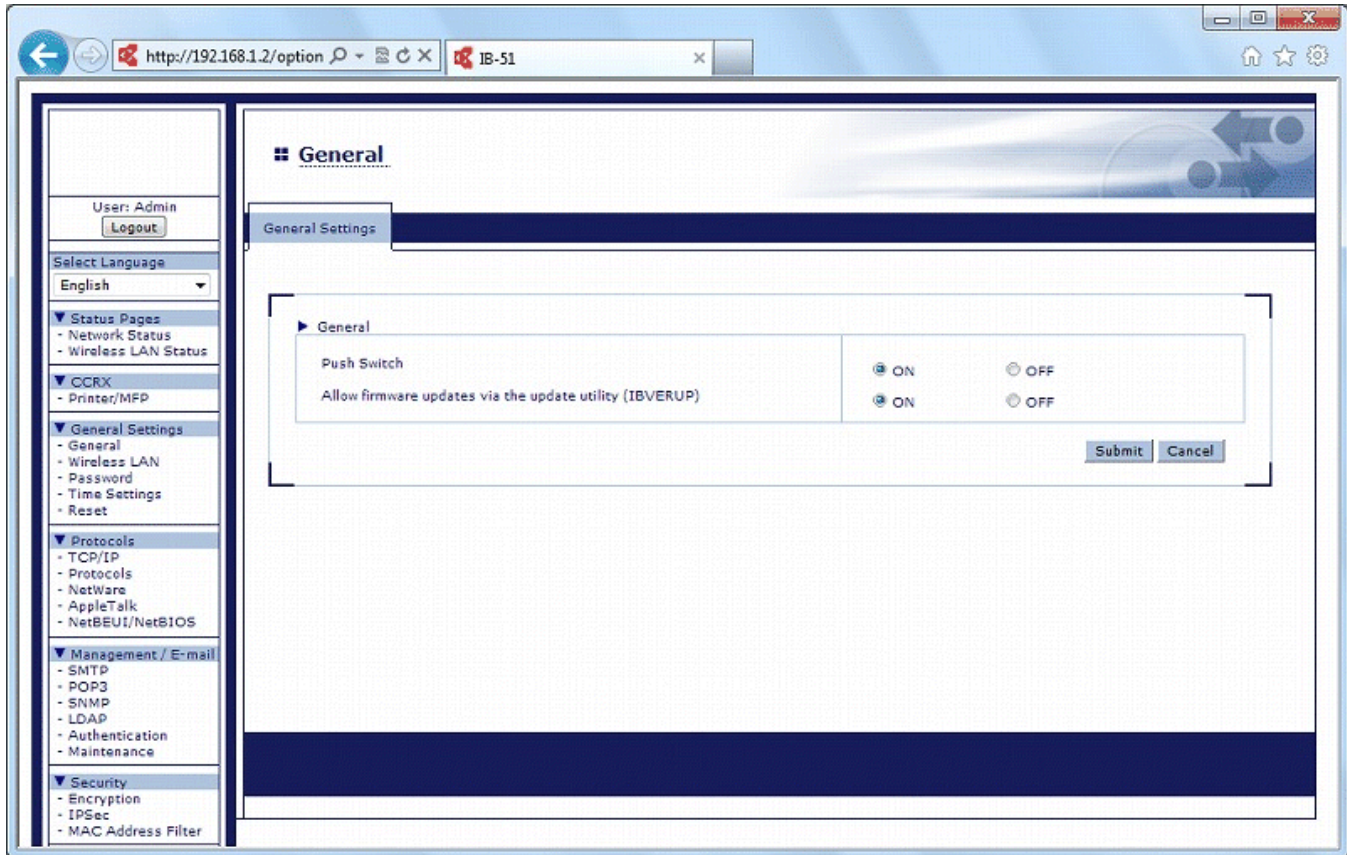


Figure 2. IB-51's Web Page General Settings Page

3-1. General Settings > General

From this page, the general settings can be configured.

Item	Description
Push Switch	Enables (On) or disables (Off) the function of Push Switch.
Allow firmware updates via the update utility (IBVERUP)	Enables (On) or disables (Off) updates using IBVERUP. Refer to the firmware update for details on the update utility (IBVERUP).

3-2 General Settings > Wireless LAN > Wireless LAN

From this page, the IB-51's wireless settings can be configured.

Item	Description
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Auto Wireless Setup Feature	PIN-Code	Clicking "Auto Generate" will generate the IB-51's PIN code.
Wireless LAN Basic Configuration	Wireless Mode	Select from below the method of connection to the IB-51's wireless network. <ul style="list-style-type: none"> - Infrastructure - AdHoc
	SSID	Set the SSID of the wireless LAN to connect the IB-51.
	Wireless Authentication	Configure the authentication method used when connecting to the wireless LAN router (access point). <ul style="list-style-type: none"> - Open - Shared - WPA - WPA2 - WPA Enterprise - WPA2 Enterprise
	Channel	Set the channel used by wireless LAN.
WEP Configuration	WEP	Enable (On) or disable (Off) the WEP encryption feature.
	WEP Key	Set the encryption key (WEP key) used for WEP encryption.
WPA/WPA2 Configuration	Encryption Mode	Select from below the wireless encryption method to use. When WPA2/WPA2 Enterprise is set as the wireless authentication method, this is fixed at AES. <ul style="list-style-type: none"> - TKIP - AES - AUTO
	Pre-Shared Key	Only when WPA/WPA2 is selected, enter the shared key. When WPA Enterprise/WPA2 Enterprise is selected, this cannot be set.
	Authentication Protocol	Select from below the authentication protocol. <ul style="list-style-type: none"> - PEAP - EAP-TLS - EAP-TTLS - EAP-FAST
	EAP User Name	Enter the EAP user name.
	EAP Password	Only when EAP-TTLS/PEAP/EAP-FAST is selected, enter the EAP password.
	Internal Authentication Method	Only when EAP-TTLS/PEAP is selected, specify from the following protocols. When set to PEAP, this is fixed at MSCHAPv2. <ul style="list-style-type: none"> - PAP - CHAP - MSCHAP - MSCHAPv2
	Server Authentication	Enables (On) or disables (Off) the server authentication, when EAP-TLS/EAP-TTLS/PEAP is selected for the authentication.
	Import CA Certificate	Imports the CA certificate when EAP-TLS/EAP-TTLS/PEAP is selected for the authentication.
	Import Client Certificate	Imports the client certificate, when EAP-TLS is selected for the authentication.
	Automatic PAC File Distribution	Enables (On) or disables (Off) the automatic configuration of the PAC file, when EAP-FAST is selected for the authentication.

Import PAC	Select and import the PAC file, when EAP-FAST is selected for the authentication, and automatic PAC file is disabled (Off).
Password	Enter the password when importing certificates. 32 characters maximum.

3-3 General Settings > Wireless LAN > Certificate

From this page, the details of the certificates of wireless LAN settings can be checked.

Item	Description
Client Certification	Part of the client certificate can be referenced.
CA Certification	Part of the CA certificate can be referenced.
PAC	Part of the PAC file can be referenced.

3-4. General Settings > Password

By setting an administrator password, the access to IB-51's Web page can be restricted (excluding the Status Page).

Note:

- The default password is "**Admin**". We recommend setting an administrator password to prevent unauthorized changes to the IB-51 settings.
- The password can be up to 15 characters long.
- Make a note of the password in case you forget.

Item	Description
New Password	Enter the new password.
Confirm New Password	Enter the new password again for confirmation.

Follow these steps to set up or change the password.

1. Enter the desired password in the new password field.
2. Re-enter the same password in the confirmation field.
3. Click **Submit** at the bottom of the page.

3-5. General Settings > Time Settings

The IB-51 obtains the current time from a time server on the network. The time is used in various reports sent from the IB-51 via e-mail.

Item	Description
Current Local Time	Shows the time as obtained from the time server.
Time Zone	For designating the offset from UTC.
Time Protocol	For designating the server to obtain for the time. The available servers are as follows. <ul style="list-style-type: none"> - None: Do not obtain the time from a server. - NetWare: Obtain the time from a NetWare server.

	– SNTP Server: Obtain the time from a SNTP server. Designate the server name or IP address.
SNTP Server	Set the SNTP server name or IP address.

3-6. General Settings > Reset

To enable the changes you have made to IB-51 network settings, you must restart the network interface. You can also restore the default settings as needed.

Item	Description
Restart Network Interface	Click the Restart button to restart the network interface.
Set all Network Settings to Factory Default	Click the Reset button to restore the default network interface settings.

4. Advanced Page

This page includes advanced settings applicable to all aspects of IB-51 operation. You can restrict access to this page by setting an administrator password. Refer to [3-4. General Settings > Password](#) for details.

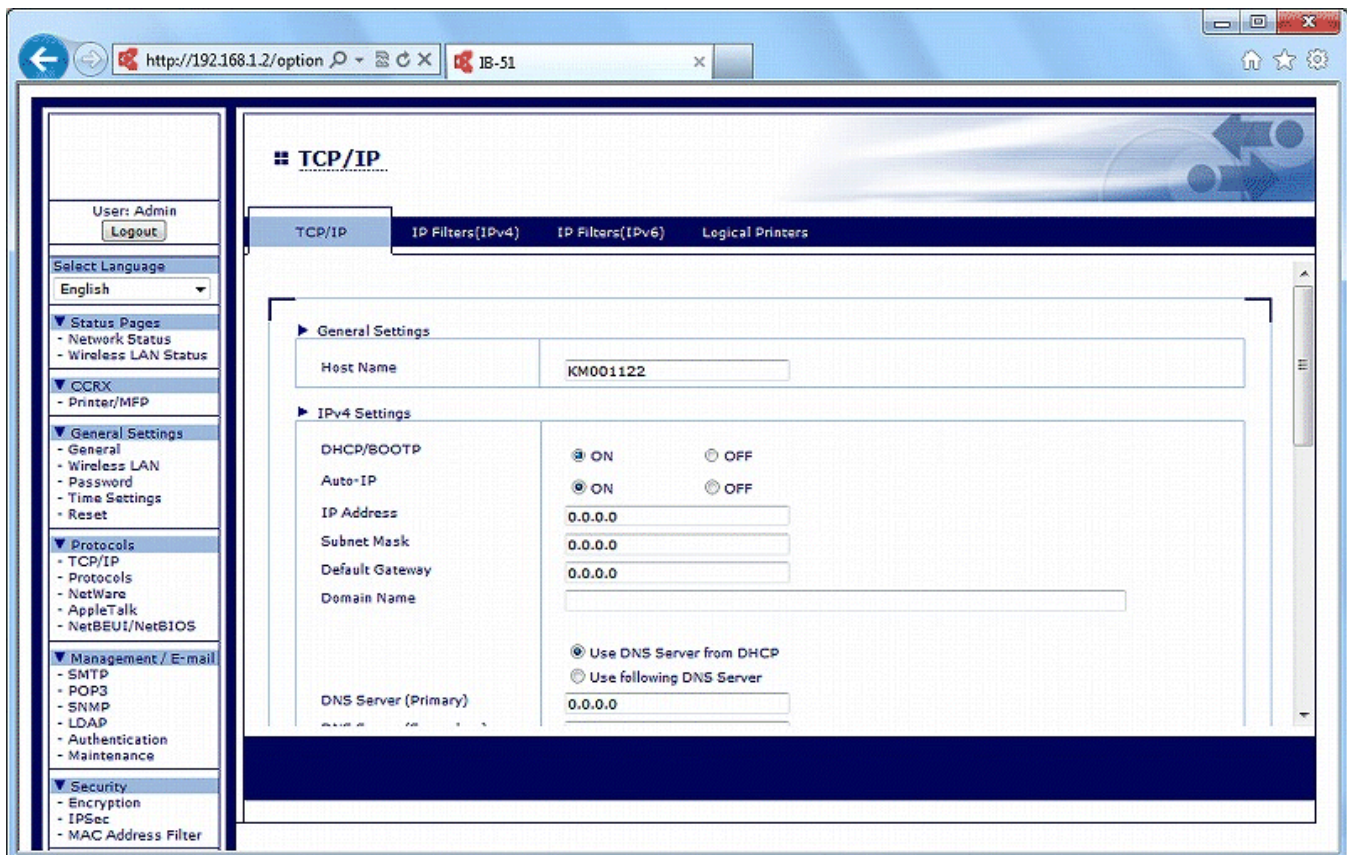


Figure 3. IB-51's Web Page Advanced Page

4-1. Protocols > TCP/IP > TCP/IP

This table gives an overview of the items displayed on this page.

Item	Description
General Settings	Host Name For designating the name of IB-51.
IPv4 Settings	DHCP Enable (On) or disable (Off) the auto IP address configuration using DHCP.
	Auto-IP Enable (On) or disable (Off) the IP address assignment using Auto-IP.
	IP Address For assigning the IB-51's IP address. Example: 192.168.110.171
	Subnet Mask For designating the subnet mask.
	Default Gateway For designating the IP address of the default gateway.
	Domain Name For designating the DNS name of the domain to which the IB-51 belongs. Do not designate the host name.
	DNS Server (Primary, Secondary) For designating the primary and secondary IP addresses of the DNS (Domain Name System) server. To obtain an IP address from the DHCP server, Use DNS Server from DHCP must be selected.
	WINS Server (Primary, Secondary) For designating the primary and secondary IP addresses of the WINS server. To obtain an IP address from the DHCP server, Use WINS Server from DHCP must be selected.
	Scope ID For determining the scope of IP addresses the Windows server can assign or lease.
	Bonjour Bonjour can be switched on and off. Activate Bonjour if you want to be able to add printers/MFPs through Print Center in Mac OS X. Printers/MFPs must support KPD L for printing.
Bonjour Name For designating a name to be used with Bonjour.	
IPv6 Settings	IPv6 Switches IPv6 on and off. When this setting is on, the IB-51 supports IPv6. In order to use IPv6, however, all of the devices on a network need to support IPv6.
	IP Address Assign the IPv6 address to IB-51.
	Prefix Length Specifies the prefix length for IPv6.
	RA (Stateless) Enable (On) or disable (Off) the IPv6 address assignment using RA.
	Default Gateway For designating the IP address of the default gateway.
	DHCPv6 (Stateful) Enable (On) or disable (Off) the auto IP address configuration using DHCPv6.
	Domain Name For designating the DNS name of the domain to which the IB-51 belongs. Do not designate the host name.
	DNS Server (Primary, Secondary) For designating the primary and secondary IP addresses of the DNS (Domain Name System) server. To obtain an IP address from the DHCP server, Use DNS Server from DHCP must be selected.

4-2. Protocols > TCP/IP > IP Filters (IPv4)

IP Filters(IPv4) can be used to specify the host or network that can use IB-51. Up to 10 access list entries can be specified.

Item	Description
IP Address	Specify the IP address or work address to allow access from.

Subnet Mask	Specify the subnet mask to allow access from. To allow access from all hosts over the network 192, enter "192.0.0.0" for IP address and "255.0.0.0" for subnet mask. It is possible to leave this field blank.
Protocols	Select the protocols that will be allowed to access from the following choices. <ul style="list-style-type: none"> - LPD - FTP - IPP - HTTP - RAW Port - SNMP - HTTPS(IPPS) - ThinPrint

4-3. Protocols > TCP/IP > IP Filters (IPv6)

IP Filters(IPv6) can be used to specify the host or network that can use IB-51. Up to 10 access list entries can be specified.

Item	Description
IP Address (IPv6)	Specify the IP address to allow access from.
Prefix Length	Specify the prefix length for IPv6 (0-128 decimal characters).
Protocols	Select the protocols that will be allowed to access from the following choices. <ul style="list-style-type: none"> - LPD - FTP - IPP - HTTP - RAW Port - SNMP - HTTPS(IPPS)

4-4. Protocols > TCP/IP > Logical Printers



The IB-51 can be used as a virtual printer that adds or replaces strings (commands) at the start or end of job data. You can configure up to eight logical printers.

Logical printers use FTP, LPR, or IPP as the communication protocol. Printouts to nonexistent ports are all sent to Logical Printer 1.

Item	Description
TCP/IP Port Number	You can designate the port number for logical printers just as you can designate the physical port number for TCP (such as 9100). Data sent to the designated physical port is converted in a way corresponding to the designated logical printer. If you designate the same port number as a port that was previously designated (such as for FTP or LPD), the port designation is invalid.
Bi-directional Printing	You can enable (On) or disable (OFF) bi-directional printing that uses the physical port for TCP/IP communication. If this setting is off, all data received from the printer is disregarded. When printing with PostScript, PDL, or other commands, bi-directional printing must be on to return data to the client that was received from the printer.
Start of Job String	You can designate a string to be sent to the printer before direct output to the output port (lp port). If you need to send a control code before printing, designate that string.
End of Job String	You can designate a string to be sent to the printer after direct output to the output port (lp port). If you need to send a control code after printing, designate that string.
Banner Page	Banner page printing can be enabled (On) or disabled (Off) when printing via FTP or LPD.
Filter Setting	Select ASCII to KPDLE to enable the filter setting.


4-5. Protocols > Protocols > Server Settings

The protocols to use can be selected.

Item	Description	
Server Settings	<p>Enable (On) or disable (Off) the following protocols.</p> <ul style="list-style-type: none"> - IPP - IPP over SSL* - LPD - RAW Port - HTTP - HTTPS* <p>*Note : To activate the configuration, the Encryption needs to be set to ON.</p>	
FTP Server	FTP Server	Enables (On) or disables (Off) the FTP server.
	FTP Server Port Number	Sets the FTP Port Number. (Default port: 21)
	FTP Status Check	Enables (On) or disables (Off) the FTP status check.
	FTP Server over SSL	<p>Encrypts using SSL. Select "OFF" to not use it.</p> <ul style="list-style-type: none"> - OFF - StartTLS - FTP Server over SSL <p> - To activate the configuration, the Encryption needs to be set to ON.</p>
ThinPrint	ThinPrint	<p>Enables (On) or disables (Off) ThinPrint. ThinPrint is a technology that distributes the network load due to printing through compression and bandwidth control of the print data. To use ThinPrint, .printServerEngine is required on the server, and .printClient is required on the client (printer/MFP). When the ThinPrint feature of the IB-51 is turned on, the IB-51 operates as a ThinPrint client.</p>
	ThinPrint Port Number	Specifies the port that is used for communication with .printServerEngine. The default value is 4000.
	ThinPrint over SSL	<p>Select to enable (On) or disable (Off) encryption by SSL.</p> <p> - To activate the configuration, the Encryption needs to be set to ON.</p>
	Import Client Certificate	Imports the client certificate, when EAP-TLS is selected for the authentication.
	Password	Enter the password when importing certificates. 32 characters maximum.
	Import CA Certificate	Imports the CA certificate when EAP-TLS/EAP-TTLS/PEAP is selected for the authentication.

4-6. Protocols > Protocols > Client Settings

The FTP client and CIFS client can be configured.

Item	Description
FTP Client	Enables (On) or disables (Off) the FTP client.
FTP Client Port Number	Sets the FTP Port Number. (Default port: 21)
FTP Client over SSL	<p>Encrypts using SSL. Select "OFF" to not use it.</p> <ul style="list-style-type: none"> - OFF - StartTLS - FTP Client over SSL <p> - To activate the configuration, the Encryption needs to be set to ON.</p>
CIFS	Enables (On) or disables (Off) the CIFS Protocol.

4-7. Protocols > NetWare > General

This print system supports both NDS and bindery printing in either printer server mode or remote printer mode.

To set up NetWare, client software must be installed and you must be logged on with administrator rights. Consult your network administrator for assistance.

Printing with NetWare is supported with Novell or Microsoft NetWare Client as the client.

Network operations such as creating the queue require admin, supervisor, or equivalent rights.

Item	Description
NetWare Protocol	Choose whether NetWare protocol is enabled (On) or disabled (Off).
Bindery Mode	Choose whether bindery mode is enabled (On) or disabled (Off).
Frame Type	Choose from four supported four frame types: 802.2, SNAP, ETHERNET-II, and 802.3. You can also choose auto-detect.
NDS Tree	Designate the name of the NDS tree for the connection.
NDS Context	Designate the NDS context for connections in print server mode.
Print Server Mode	Choose whether print server mode is enabled (On) or disabled (Off).
Print Server Name	Shows the print server name.
Queue Polling Interval	The polling interval can be designated.
Banner Page Requests	Choose whether to print banner page when printing in print server mode.
Password (Optional)	A password can be designated as desired. Login requires that the password here match the print server password set by the NetWare utility.
Remote Printer Mode	Choose whether remote printer mode is enabled (On) or disabled (Off).
Printer Name	Shows the print server name.
Job Timeout	Set the timeout value to complete jobs in remote printer mode in a range of 4 to 255 seconds.

4-8. Protocols > NetWare > Bindery Services

You can register the file server in print server mode and the print server in remote printer mode that are connected by the print system. If none are registered, network discovery is performed at startup, and the first servers (up to eight) are automatically connected.

After system startup, the system conducts polling at regular intervals to connect to servers automatically even when registered file servers are running.

Item	Description
Print Server Mode	Up to eight file servers can be registered. If there are nine or more file servers, register the priority file server names. If none are registered, up to eight servers are automatically connected at startup. However, print server names in the file server must match IB-51 print server names.
Remote Printer Mode	Up to eight print servers can be registered. If there are nine or more print servers, register the priority print server names. If none are registered, up to eight servers are automatically connected at startup. However, printer/MFP names (printer port names) in the print server must match IB-51 remote printer names (printer port names). Even if registered file servers are started after the IB-51, the IB-51 regularly conducts polling so they will be automatically connected.

4-9. Protocols > AppleTalk

This print system supports Mac OS. (See 1-1. [Compatible Systems](#)) and is compatible with LaserWriter driver version 8.x. To print in AppleTalk networks, activate AppleTalk protocol.

Item	Description
AppleTalk	Choose whether AppleTalk protocol is enabled (On) or disabled (Off).
Printer Name	Identifies printers/MFPs in the AppleTalk network.
Zone Name	Identifies the AppleTalk zone (network). An asterisk (*) here indicates the default zone.

4-10. Protocols > NetBEUI/NetBIOS


Print systems connected via NetBEUI are registered in Windows in My Network.

Item	Description
NetBEUI Protocol	Choose whether NetBEUI protocol is enabled (On) or disabled (Off).
NetBIOS over TCP/IP	Enables (On) or disables (Off) NetBIOS over TCP/IP. When this setting is on, NetBIOS can be used in a TCP/IP network environment.
Browse Master	When this option is selected, the print system changes to browse master, and a workgroup is created in My Network. When the option is not selected, the print system is added to an existing workgroup.
Printer Name	The printer/MFP name is interrelated with the host name configured at TCP/IP setting page (Protocols > TCP/IP > TCP/IP). If you want to change the NetBEUI printer/MFP name, change the TCP/IP host name.
Workgroup	The printing workgroup is a workgroup shown in Entire Network in My Network. The default workgroup name is "KM-NetPrinters" or "NC-NetPrinters".
Comment	You can enter a comment as desired. This field can also be left blank.

4-11. Management/E-mail > SMTP > General

The IB-51 can notify registered users by e-mail when the toner is running out, or send other information. SMTP is used for this feature. You must configure the SMTP protocol settings before the IB-51 can connect to an SMTP server.

Item	Description
SMTP Protocol	Choose whether SMTP protocol is used (On) or not (Off).

SMTP Port Number	For designating the SMTP port number. (Default setting is 25) Click the Test button to check the connection.
SMTP Server Name	Enter the SMTP server name or IP address.
SMTP over SSL	Allows the SSL encryption for mail sever communication. Select OFF when it is not used. <ul style="list-style-type: none"> - OFF - StartTLS - SMTP over SSL  - To activate the configuration, the Encryption needs to be set to ON.
Authentication Protocol	Select the SMTP authentication setting from the following. <ul style="list-style-type: none"> - ON : Uses the SMTP authentication - POP before SMTP : Uses [POP before SMTP] as a protocol. - OFF : Does not use the SMTP authentication
Authenticate as	Select one of the POP3 users (1-3) for SMTP authentication using the selected POP3 account. If you select Other , your designated login user name and login password will be used.
Login User Name	If you select Other for POP3 user authentication, the account name you designate here is used for SMTP authentication. Up to 64 characters can be entered.
Login Password	If you select Other for POP3 account authentication, the password you designate here is used for SMTP authentication.
Sender Address	For designating the address of the printer/MFP administrator or other print system manager so that replies or non-delivery reports reach the administrator.
Signature	Enter an e-mail signature.

4-12. Management/E-mail > SMTP > E-mail Recipient (1-3)

Status information, such as notification of errors or that the toner is running out, can be sent automatically at the designated times to the designated e-mail addresses. Configure this setting after the **SMTP > General**.

Item	Description
Recipient Address 1-3	In Recipient Address 1-3, enter recipients' e-mail addresses. You can easily send to multiple recipients by entering a distribution list address.
Subject	For designating the subject name of e-mail messages with reports sent from the IB-51. This field also supports variable strings such as "%printer" (Model), "%serial" (Serial Number), "%etheraddr" (MAC Address), "%host" (Host Name), "%ip" (IP Address) and "%status"Printer Status.j.
Event Report Items	For choosing the type of events for notification. <ul style="list-style-type: none"> - Add Paper - Low Toner - Add Toner - Cover Open - Paper Jam - All Other Errors
Event Report Interval	Enter the interval for sending notification messages after events occur. Only if errors meeting your chosen conditions occur will a message be sent at the designated interval. You can designate an interval from 1-10000 minutes.
Scheduled Report Items	Choose the status information to include to the report. <ul style="list-style-type: none"> - Network Status
Scheduled Report Interval	For designating the timing and interval for sending status information.

	<ul style="list-style-type: none"> - None: No reports are sent. - Monthly: Reports are sent monthly on the designated day. - Weekly: Reports are sent weekly on the designated day. - Daily: Reports are sent daily at the designated hour. - Hourly: Reports are sent hourly according to the designated interval. <p>If you designate a day of the month such as 31 that does not exist in the current month, the setting is treated as if you had designated the last day of the month.</p>
Run once now	Click the Send button to send an event report and scheduled report to the address designated in Recipient Address, regardless of the interval setting.

4-13. Management/E-mail > POP3 > General


The IB-51 can receive the print data in e-mail attachments and print it. POP3 is used for this feature. You must configure the POP3 protocol settings before the IB-51 can connect to a POP3 server.

Item	Description
POP3 Protocol	Choose whether POP3 protocol is used (On) or not (Off).
Check Interval	The POP3 server is checked regularly for e-mail messages at the interval you designate. The supported range is 3-60 minutes. By default, the interval is 15 minutes.
Run once now	Click the Receive button to receive any mail on the POP3 server immediately.

4-14. Management/E-mail > POP3 > User (1-3)

For configuring user and password settings to print from e-mail. You can enter up to 3 user accounts. Additionally, you can restrict printing of received e-mail messages depending on the file size and the content of Subject, To, Cc, and From. It is also possible to print file attachments.

Item	Description
User 1-3	Choose On or Off in this setting to enable or disable e-mail deliveries to that user.
E-mail Address	Enter the e-mail addresses of users 1-3.
POP3 Server Name	Designate the POP3 server name (up to 64 characters). Enter the domain name or IP address.
POP3 Port Number	For designating the POP3 port number. (Default setting is 110)
POP3 Server Timeout	Enter the timeout in seconds during which this machine tries to connect to the POP3 server.
Login User Name	Designate the user account login name (up to 64 characters).
Login Password	Designate the password for this account (up to 64 characters).
Use APOP	Choose whether APOP protocol is used (On) or not (Off). Enable this setting (On) when connecting to mail servers that support APOP.
Test	Click the Test button to confirm that the user accounts are correctly configured.
Delete e-mail after retrieval	Choose whether or not to delete messages from the server after they are received.
E-mail Size Limit	For designating the maximum size of messages that can be received. Messages over the designated size are not received. Even if you have chosen to delete messages from the server, these unreceived messages are not deleted. If you prefer not to restrict reception, designate 0 as the size.


Filter Setting	<p>You can designate strings to filter messages (up to 255 characters). Create filter strings using the following prefixes.</p> <ul style="list-style-type: none"> - S: Filter by Subject - T: Filter by To - C: Filter by Cc - F: Filter by From <p>To filter by any of several conditions (OR), separate strings with " ". To filter by several conditions (AND), all of which must be met, separate strings with "&". For example, to print only messages with a subject of "Service" or "Technical", use "S:Service S:Technical".</p>
Cover Page	<p>When you have set up printing from e-mail, designate whether or not to print the message body as well. Choose On to add a cover page when printing messages. If there is text in the message body, it will be printed as the cover page. Choose Off to print file attachments only. If there is no file attachment, nothing is printed.</p>
POP over SSL	<p>Allows the SSL encryption for mail sever communication. Select OFF when it is not used.</p> <ul style="list-style-type: none"> - OFF - StartTLS - POP over SSL <p> - To activate the configuration, the Encryption needs to be set to ON.</p>

4-15. Management/E-mail > SNMP > General

The SNMP protocol is used to transfer administrative information across a network. You can choose between SNMPv1/v2c or SNMPv3.



Utilities that use a management information base (MIB) may not operate if SNMPv3 is turned on. In this situation, turn SNMPv3 off and set SNMPv1/v2c to **On** or **Read Only**.

Item	Description
SNMPv3	Enables (On) or disables (Off) SNMPv3. The SNMPv3 protocol provides security using DES encryption and MD5/SHA authentication. When SNMPv3 is on, set SNMPv1/v2c to Read Only or Off .
User Name	Enter the username used by SNMPv3. Maximum of 32 single-byte characters.
Authentication Protocol	You can choose between MD5 and SHA1.
Encryption	<p>Select the encryption algorithm from the following choices. Select OFF when it is not used.</p> <ul style="list-style-type: none"> - OFF - DES - AES <p> - To activate the configuration, the Encryption needs to be set to ON.</p>
Authentication Password	Enter the password for authentication. Maximum of 40 single-byte characters.
Privacy Password	Enter the password for encryption. Maximum of 32 single-byte characters.
SNMPv1/v2c	SNMPv1/v2c can be set to enabled (On), Read Only , or disabled (Off). Turn SNMPv3 off if this setting is set to On .
Read Community	This is used to read device information. The default read community string is public. The correct read community needs to be entered for an administration utility to send an SNMP request to read a value, otherwise the IB-51 will reject the request.

Write Community	This setting functions similarly to the read community setting except that it is used for SNMP requests to write values.
sysContact	This is the MIB-II sysContact object, which typically contains the email address of the network administrator.
sysName	This is the MIB-II sysName object, which typically contains the host name or domain name of the IB-51.
sysLocation	This is the MIB-II sysLocation object, which typically contains information about the location of the IB-51.
HP Web Jetadmin Compatibility	Enables (YES) or disables (NO) compatibility with HP Web Jetadmin.


4-16. Management/E-mail > SNMP > Trap


If you are using the SNMP protocol and an error such as paper out occurs, the IB-51 generates a trap and sends it to the trap recipients. You can setup two trap recipients. The setting details are the same for both recipients.

Item	Description
Authentication Traps	Enables (On) or disables (Off) the MIB-II EnableAuthenTrap object. If this setting is enabled (On), an SNMP trap is generated if an attempt is made to read or write using an invalid community string. The trap is sent to the contained trap address.
Trap Community	The SNMP trap community string used when the IB-51 generates a trap.
Trap IP Address (IPv4/IPv6)	The IP address that receives traps.
Trap IPX Address	The IPX address that receives traps.
Selected Errors	Select the events that generate traps from Low Toner , Add Toner , Paper Jam , Add Paper , Cover Open , and All Other Errors .

4-17. Management/E-mail > LDAP

The IB-51 can refer to the LDAP server.

Item	Description	
LDAP Settings	LDAP Enable (on) or disable (off) the LDAP server.	
Shared Address Book	LDAP Encryption Selects the type of encryption according to the type of security employed by the LDAP server. Select Off when encryption is not used. <ul style="list-style-type: none"> - LDAPv3/TLS - LDAP over SSL - Off  - To activate the configuration, the Encryption needs to be set to ON.	
	LDAP Server Name	Specifies a name or IP address for the LDAP server.
	LDAP Port Number	Specifies a port number for LDAP or use the LDAP default port 389.
	Search Timeout	Specifies a period of time for searching the LDAP server.
	Login User Name	Specifies the user name.
	Login Password	Specifies the password.

	Max Search Results	Specifies a maximum number of displayed results which have been searched on the LDAP address book. The actual number of results displayed varies from model to model.
	Search Base	Specifies a base object which indicates the starting point in the tree structure of the database for the LDAP directory searching.
	Authentication Type	Select the Authentication Type algorithm from the following choices. <ul style="list-style-type: none"> - Simple - SASL
Information Server	LDAP Encryption	Selects the type of encryption according to the type of security employed by the LDAP server. Select Off when encryption is not used. <ul style="list-style-type: none"> - LDAPv3/TLS - LDAP over SSL - Off  - To activate the configuration, the Encryption needs to be set to ON.
	LDAP Server Name	Specifies a name or IP address for the LDAP server.
	LDAP Port Number	Specifies a port number for LDAP or use the LDAP default port 389.
	Search Timeout	Specifies a period of time for searching the LDAP server.
	Authentication Type	Select the Authentication Type algorithm from the following choices. <ul style="list-style-type: none"> - Simple - SASL

4-18. Management/E-mail > Authentication

Setting Authentication allows only the predefined users to access pages.

Item	Description
Domain Name	Specifies the domain name of the Windows domain network when Network Authentication is specified in the preceding item.
Host Name	Specifies the domain controller name of the Windows domain network when Network Authentication is specified in the preceding item.

4-19. Management/E-mail > Maintenance


A printer/MFP maintenance request mail can be sent periodically to a specified address.

Item	Description
Equipment ID	You can specify any arbitrary number as the system ID number. Enter up to a maximum of 15 single-byte characters.
Recipient Address	Enter the email address of the recipient of the mail.
Subject	Enter the subject line of the mail. This field also supports variable strings such as "% printer" (Model), "%serial" (Serial Number), "%etheraddr" (MAC Address), "%host" (Host Name)

	and "%equipid" (Equipment ID).
E-mail Interval	<p>For designating the interval for sending maintenance notifications.</p> <ul style="list-style-type: none"> - None: No maintenance notifications are sent. - Monthly: Notifications are sent monthly on the designated day. - Weekly: Notifications are sent weekly on the designated day. - Daily: Notifications are sent daily at the designated hour. - Hourly: Notifications are sent hourly according to the designated interval. <p>If you designate a day of the month such as 31 that does not exist in the current month, the setting is treated as if you had designated the last day of the month.</p>
Run once now	Click the Send button to immediately send maintenance notifications to the mail addresses specified in the recipient addresses without waiting for the e-mail interval.

4-20. Security > Encryption > General

Communication between the PC and IB-51 is encrypted using the SSL protocol.

Item	Description
Encryption	<p>Enables (On) or disables (Off) encryption.</p> <p> - If the Encryption is set to OFF, SNMP and each SSL encryption setting are disabled and the configuration will no longer be available.</p>
Privacy Mode	<p>Select the encryption scheme from the following choices.</p> <ul style="list-style-type: none"> - All - ARCFour-128 - DES-56 - 3DES-168 - AES-128 - AES-256

4-21. Security > Encryption > Certificate

This page contains settings related to certificates used for encryption.

Item	Description
Country/Region code	Enter a two character code that represents the country (region) where the user resides. Examples: Japan = JP, United States = US
State/Province	Enter the state or province where the user resides. Example: Tokyo
City/Locality	Enter the city or locality where the user resides. Example: Setagaya
Organization	Enter the organization to which the user belongs. Example: IB-51 CORPORATION
Organization Unit	Enter the unit within the organization to which the user belongs. Example: Sales
Common Name	Enter an arbitrary name to represent the printer/MFP . Example: Sales-PRINTER

E-mail Address	Enter the e-mail address. Whitespace is allowed.
Issue Date	Displays the date that the certificate was issued.
Expiration Date	Specifies the expiration date of the certificate.

4-22. Security > Encryption > Exporting Certificate

The certificate can be downloaded to Windows Vista / 7 for printing via IPP over SSL.

Item	Description
Certificate	Click Export to download the certificate.

4-23. Security > IPSec > General

Contact information can be registered for support. This is a convenient setting for entering contact information of the dealer or service center, for example.

Item	Description
IPSec	Enable (on) or disable (off) the IPSec.
Restriction	Specify the default policy for packets other than IPSec protocol.
Authentication Type	Select the encryption scheme that will be used for IKE phase1 from the following choices. <ul style="list-style-type: none"> - Pre-Shared - Certificate
Pre-shared Key	Enter the string of the pre-shared key.
Expiration Verification	Enable (on) or disable (off) the verification of certificate expiration.
Root Certificate	Upload the root certificate by clicking Browse button.
CA-issued Device Certificate	Upload the CA-issued device certificate by clicking Browse button.
Password	Enter the password for the CA-issued device certificate.
Mode	Select the key exchange mode from the following choices. <ul style="list-style-type: none"> - Main Mode - Aggressive Mode
Hash	Select the hash algorithm from the following choices. <ul style="list-style-type: none"> - MD5 - SHA-1
Encryption	Select the encryption algorithm from the following choices. <ul style="list-style-type: none"> - 3DES - AES
Diffie-Hellman Group	Select the Diffie-Hellman group to use from the following choices. <ul style="list-style-type: none"> - modp768(1) - modp-1024(2) - modp-1536(5) - modp-2048(14) - modp-4096(16) - modp-6144(17)

Lifetime (Time)	Specifies the lifetime of an ISAKMP SA in seconds.
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4-24. Security > IPsec > Rule (1-3)

The rules to use can be selected or edited.

Item	Description
Rule	Enable (on) or disable (off) the selected IPsec policy.
Protocols	Select the protocol from the following choices. <ul style="list-style-type: none"> - ESP - AH
Encryption	Select the encryption algorithm from the following choices. (Only when ESP is selected for Protocols .) <ul style="list-style-type: none"> - 3DES - AES
Hash	Select the hash algorithm from the following choices. <ul style="list-style-type: none"> - MD5 - SHA-1
PFS	Select the PFS to use from the following choices. <ul style="list-style-type: none"> - NONE - modp768(1) - modp-1024(2) - modp-1536(5) - modp-2048(14) - modp-4096(16) - modp-6144(17)
Lifetime (Time)	Specifies the lifetime of an ISAKMP SA in seconds.
IP Version	Select the IP version of the device to be connected from the following choices. <ul style="list-style-type: none"> - IPv4 - IPv6
IP Address (IPv4)	Specify the IPv4 address of the host or network to be connected in IPsec.
Subnet Mask Prefix Length	Specify the subnet mask of the host or network to be connected in IPsec.
IP Address (IPv6)	Specify the IPv6 address of the host or network to be connected in IPsec.
Prefix Length	Specify the prefix length for IPv6.


4-25. Security > IPsec > Certificate

The detailed information of the certificate can be seen.

Item	Description
Root Certificate	Shows the detailed information of Root Certificate.
CA-issued Device Certification	Shows the detailed information of CA-issued Device Certificate.

4-26 Security > MAC Address Filtering

The IB-51 can allow or deny communication from registered MAC addresses.

Item	Description
Filter Setting	Enables (On) or disables (Off) filtering setting by MAC address.
Policy	Select to allow or deny communication from registered MAC addresses.
File	Select a list file of MAC addresses to register, if one exists. Click the [Browse...] button and select the list file of MAC addresses.
Text	Select when directly entering a MAC address. Enter the MAC address you want to register directly in the entry field.  – If the MAC address is already registered, it will be displayed in the text entry field. To delete a registered MAC address, delete the MAC address from the text entry field.



- Enter the MAC address two characters at a time, separated by a colon.
To set multiple MAC addresses, set one address per line.

4-27. Send Data > Printable Data

This sends files directly to the IB-51 for printing. The following files can be printed. You can also print text that you enter through the IB-51's Web page.

Item	Description
File	Click the Browse button to select a file. Files with the extensions *.ps, *.prn, *.pdf, and *.txt are supported. For PostScript and PDF files, set the printer/MFP's emulation to KPDL or KPDL (AUTO).
Text	Enter the text for printing in the input field. Up to 255 characters can be entered.

4-28. Information > Contacts

The contact information of a store, service center, support center, etc. can be registered. It could be used conveniently in case of the emergency.

Item	Description
Company	Sets the company name. Enter up to 31 single-byte characters.
Account #	Sets the account number. Enter up to 31 single-byte characters.
Address	Sets the address. Enter up to 31 single-byte characters.
Website	Sets the URL. Enter up to 31 single-byte characters.
Contact	Sets the contact information. Enter up to 31 single-byte characters.
Phone	Sets the telephone number. Enter up to 15 single-byte characters.
FAX	Sets the fax number. Enter up to 15 single-byte characters.
Cellular phone	Sets the mobile telephone number. Enter up to 15 single-byte characters.
E-mail	Sets the e-mail address. Enter up to 31 single-byte characters.

4-29. Information > About

The model name and firmware version can be seen.

Item	Description
Model	Shows the model name.
Version	Shows the firmware version.

5. Troubleshooting

If problems occur when using the IB-51's Web page, investigate the following items and take the appropriate action. If the problem persists, contact your dealer or an authorized service center.

Problem	Check point	Action
Cannot access the IB-51's Web page	Are the IB-51 wireless LAN settings correct?	Check the IB-51 wireless LAN settings.
	Is the IP address of the IB-51 entered correctly?	Enter the correct IP address. Ask the network administrator to verify that the IB-51 is configured with the correct IP address.
	Are the web browser settings correct?	If the web browser connects via a proxy server, check the proxy settings. For details, see the web browser Help.
	Has the administrator set up an IP Filter function?	Access the IB-51's Web page from an approved IP address.
	Is the web browser version supported by the IB-51's Web page?	Use a web browser verified to work with the IB-51's Web page.
The text of the IB-51's Web page does not display properly.	Is the web browser version supported by the IB-51's Web page?	Use a web browser verified to work with the IB-51's Web page.
Cannot access the General Settings Page or Advanced Page.	Has the administrator set a password? If so, you must enter it.	Enter the correct administrator password.
The settings I made are not registered.	Did you click the Submit button, after entering the settings?	After making the desired settings of IB-51, click the Submit button.
I forgot the administrator password.		The administrator password can be cleared by restoring the IB-51 settings to the factory default settings using the procedure described in Resetting to Factory Defaults .

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