IPv6-IPv4 Converter IB-40 Setup Guide

This Setup Guide describes how to setup the IPv6-IPv4 Converter, IB-40 (this product).
Please refer to the "Installation Guidance" before starting the setup.

Access the Web page and configure the general settings

This product can be configured from its Web page by using a Web browser. The following explains how to access the Web page and view each configuration page.

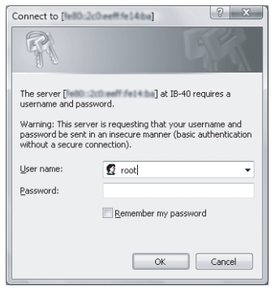
1. Access the Web page of this product using a Web browser.

(Example) http://ib40:60000/

<Windows Vista>
(Example) http://[fe80::2c0:eeff:fe00:1122]:60000/

2. Click the item you wish to configure from the configuration items displayed in the Web page.

3. A password entry screen will be displayed.
Enter **root** for the user name and the password set for this product to the password. Click **OK** when completed.
(As factory default, no password is set for this product. In this case, enter **root** for the user name and then leave the password blank and click **OK**.)

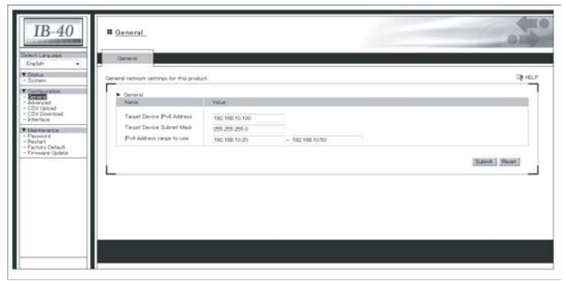


4. Once user authentication has succeeded, the configuration page you have selected will be displayed.

1.General Configuration

Configure the general settings of this product. To use this product, these settings must be configured.

1. Click **General** on the left pane.



2. In the page displayed, enter the value for each configuration item.

MFP main unit IPv4 address	Enter the IPv4 address set for the MFP main unit (not the IPv4 address of this product). If your machine is 50 ppm (cpm) or lower speed model, enter the fixed IP address. If your machine is 60 ppm (cpm) or higher speed model, IPv4 address will be automatically assigned by DHCP. Leave this field as "0.0.0.0". * If you fail to connect using 0.0.0.0, enter the IP address assigned by DHCP.
MFP main unit subnet mask	Configure the subnet mask for the MFP main unit running on an IPv4 network. * This value must be entered even if the IP address is automatically assigned.
IPv4 Address range to use	Set the Start Address and End Address of the IPv4 address range you reserved for this product in **Before using this product...**. * Please make sure that the IPv4 address of the MFP main unit is not included in this range.

3. Click **Submit**.
A message will appear and ask whether to reboot this product or not. Click **OK**. This product will automatically reboot itself and finish the configuration.

The general configuration has been completed.
Now, the MFP main unit can be accessed from the IPv6 network via this product. By using the IPv6 address of this product, IPv6 devices can communicate with the MFP main unit via the IPv6 network.

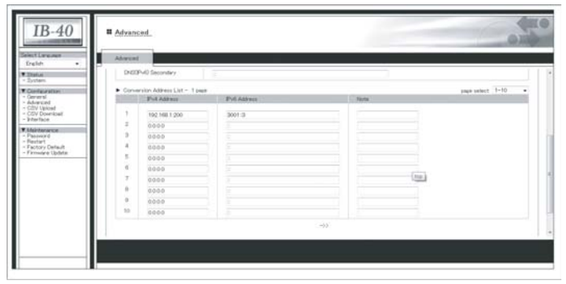
Protocols enabled by completing the general configuration (example).
TCP: telnet(#23), http(#80), LPR(#515), IPP(#631), RAW mode print(#9100), FTP-Server(#21)
UDP: SNMP(#161)

* This product transparently forwards protocols other than IPv6. Communication to the MFP main unit using IPv4 or other protocols (e.g. Netware and AppleTalk) can be carried out as usual.

2.Configuration for accessing IPv6 devices from the MFP main unit

When communicating from the MFP main unit to an IPv6 network such as when sending/receiving an email or transferring a file, the IPv4 address sent out from the MFP main unit needs to be converted to an IPv6 address.
This product converts IPv4 addresses to IPv6 addresses by mapping IPv4 addresses to IPv6 addresses in the **Conversion Address List**.

1. Click **Advanced** on the left pane.



2. On the page displayed, enter the addresses into the **Conversion Address List**. Up to **128 addresses** can be set to the **Conversion Address List**.

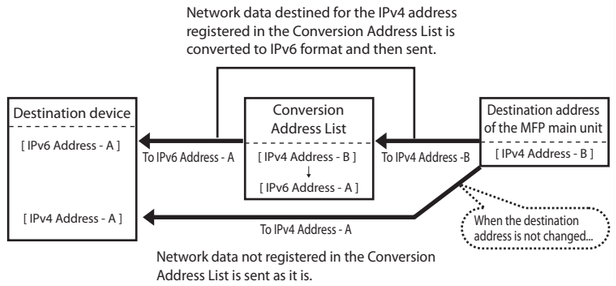
IPv4 Address	Set the IPv4 address of the destination device to be set on the MFP main unit. The IPv4 address configured here is not the IPv4 address actually used by the device that the MFP main unit communicates with. It is the address used for the MFP main unit and this product to communicate with each other. The value must be an address within the **IPv4 Address range to use** which you set during the general configuration. However, do not use the first address in the range. * Do not enter the IPv4 address of the MFP main unit in this field.
IPv6 Address	Set the IPv6 address of the destination device.
Note	Enter a comment describing the destination device if desirable (Up to 15 characters).

3. Click **Submit**.
A message will appear and ask whether to reboot this product or not. Click **OK**. This product will automatically reboot itself and finish the configuration.

Change the MFP main unit settings

Convert the IP address of the destination device set on the MFP main unit to the **IPv4 address** registered in the **Conversion Address List** on this product.

* This product looks at the IP address in the network data sent from the MFP main unit, and converts only the network data destined for IPv4 addresses (registered in the Conversion Address List) to IPv6 network data and then sends it. If the IP address in the network data sent by the MFP main unit is not registered in the Conversion Address List, the network data is sent without being converted to IPv6 format. Please do not forget to change the IP address of the destination device set on the MFP main unit.



Communication from the MFP main unit to the IPv6 network has now been enabled.

Protocols enabled by making use of the Conversion Address List. (Example)
TCP: SMTP(#25), POP(#162), SMB(#445), FTP-Server(#21)
UDP: SNMP-Trap(#162)

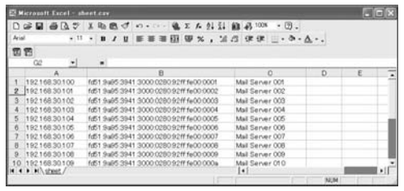
➡ Go on to the backside

3.How to register IPv4/IPv6 addresses to the Conversion Address List by creating a CSV file

The **Conversion Address List** can be edited as a **CSV file** and then **uploaded** to this product. This function is convenient when using the same Conversion Address List for two or more of this product.
The following explains how to register IPv4/IPv6 addresses to the Conversion Address List using a CSV file.

1. Start a software application that can edit CSV files, such as Excel.

2. Enter the address information into the CSV file in the order of [**IPv4 Address**] -> [**IPv6 Address**] -> [**Note**]. Up to 128 addresses can be registered to the Conversion Address List.



* Please enter correct values for the IPv4/IPv6 addresses. If characters that cannot be recognized as an address are included, they will not be used for the address conversion.
* Do not enter the IPv4 address of the target device.
* Up to **15** characters can be entered into the [**Note**] field. However, a **comma (,)** cannot be entered.

3. When finished editing, save the file in CSV format.
* If using Excel, click **File** -> **Save As....** On the dialog displayed, select "**CSV(Comma delimited) (*.csv)** " for **Save as type** and click **Save**.

4. Access the Web page of this product via a Web browser and click **CSV Upload** on the left pane.

5. On the page displayed, click **Browse** and select the CSV file that you have saved.

6. Click **Upload**.
* The information contained in the CSV file will be uploaded to the **Conversion Address List**.

A message will appear and ask whether to reboot this product or not. Click **OK**.
This product will automatically reboot itself and finish the configuration.

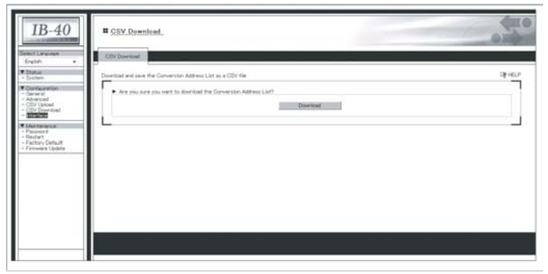
To use the same Conversion Address List for two or more of this product, repeat the process described in 4-6 for each one.

* If you have mistakenly uploaded a CSV file that includes the IPv4 address of the MFP main unit, click **Advanced** - **Address Conversion List** and delete the address information of the target device manually.

4. How to save the Address Conversion List to a CSV file

The Address Conversion List currently stored in this product can be saved to your PC as a CSV file.
The following describes how to save the Address Conversion List:

1. Click **CSV Download** on the left pane.



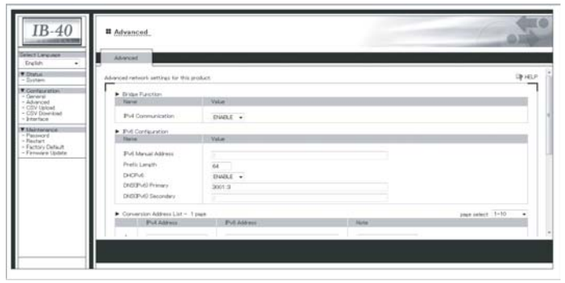
2. Click **Download**. In the screen displayed, specify a file name and save the file.

The Address Conversion List has been saved.

5.How to block IPv4 communication by the MFP main unit

This product can be configured not to send any network packets including an IPv4 address. Please utilize this function when establishing a network environment where only IPv6 addresses are sent/received.

1. Click **Advanced** on the left pane.



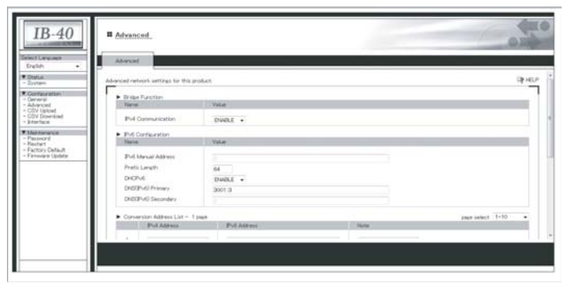
2. On the page displayed, select **DISABLE** for **IPv4 Communication**.

3. Click **Submit**.
A message will appear and ask whether to reboot this product or not. Click **OK**.
This product will automatically reboot itself and finish the configuration.

6.IPv6 Settings

This product enables you to fine tune the configuration for IPv6.
Select the appropriate configuration for the network environment in which the product is installed.

1. Click **Advanced** on the left pane.



2. In the page displayed, change each configuration.

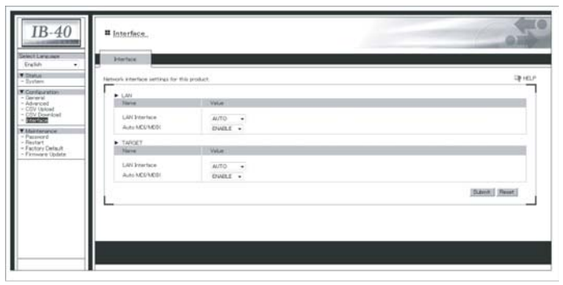
IPv6 Manual Address	Set the IPv6 address.
Prefix Length	Set IPv6 the prefix length.
DHCPv6	Enable or disable the DHCPv6 protocol. To use DHCPv6 to configure IPv6 addresses, a DHCPv6 server must be running in the sub-network.
DNS (IPv6) Primary	Set the address of the DNSv6 primary server. If DHCPv6 is enabled, the DNSv6 server acquired by DHCPv6 takes priority.
DNS (IPv6) Secondary	Set the address of the DNSv6 secondary server. If DHCPv6 is enabled, the DNSv6 server acquired by DHCPv6 takes priority.

3. Click **Submit**.
A message will appear and ask whether to reboot this product or not. Click **OK**.
This product will automatically reboot itself and finish the configuration.

7.Network port settings

Detailed communication settings can be configured for the network port of this product.
Usually these communication settings do not need to be changed, but when this product does not link up (when the Link LED does not turn on even though this product is powered on), modify these settings.

1. Click **Interface** on the left pane.



2. In the page displayed, change each configuration.

LAN Interface	Set the physical transfer speed of the LAN. Select the value that matches the communication type of the device connected to each network port. In most cases, it is recommended to use **AUTO**.
Auto MDI/MIDX	Either a straight cable or cross cable can be used with this product. However, depending on the device connected to each network port, this auto-detect function may not work properly. In such a case, select DISABLE for this setting.

3. Click **Submit**.
A message will appear and ask whether to reboot this product or not. Click **OK**.
This product will automatically reboot itself and finish the configuration.

First Edition 2008.9