AIPHONE

IX Series

IP network-compatible intercom

Handset Sub Station IX-RS-W, IX-RS-B

Web Setting Manual

Software version 2.00 or later

⊙ Important

- Before configuring and using the system, read Web Setting Manual (this document) and Operation Manual carefully.
- For the installation and connection of each device, refer to "Installation Manual."
- Begin installation after reading and understanding the procedures for system configuration.
- The system settings file is required for post-installation maintenance and service. The setting file must be given to the customer.
- The illustrations used in this manual may differ from the actual product.

Table of contents

Introduction

Startup and configuration

Configuring the Station

Introduction

This manual describes how to set up IX-RS-* through a web browser.
IX system offers a separate manual for Installation, Settings, and Operations. Refer to the relevant manual.

1. Notational symbols in this manual
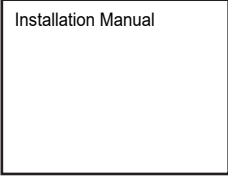
The following symbols identify important information concerning operational procedures.

⚠ Warning	This symbol means that operating the station incorrectly, or ignoring these precautions may cause severe injury or death.
⚠ Caution	This symbol means that operating the station incorrectly, or ignoring these precautions may cause severe injury or property damage.
❗ Important	This symbol is intended to alert the user to important instruction. Please read and understand before proceeding.
💡 Note	This symbol indicates tips and additional information for operation.

- Terms displayed on station and PC screens are indicated as **[XXXX]**.
- Page reference are shown as "Title (→ page XX)", (→ page XX), or page XX.
- The illustrations and images used in this manual may differ from the actual items.
- VoIP phones and IX system stations are referred to collectively as "stations."

2. Product manuals

Read the "Installation Manual," "Setting Manual," and "Operation Manual" as needed. Have the person who installs or configures the product refer to the relevant manuals.

Installation Manual	**Installation Manual (comes with each station.)** Refer to this when you install and connect a station. (This manual is for the installer.)
The manuals listed to the right can be found on our Web site at https://www.aiphone.net/support/ for download and reference.	**IX Support Tool Setting Manual (Electronic format (PDF file).)** Describes how to configure and maintain the system using IX Support Tool. (For system administrator)
	Monitoring Software (IX Supervision Tool) Operation Manual (Electronic format (PDF file).) Describes how to use the Monitoring Software. (For system administrator)
	Operation Manual (Electronic format (PDF file).) Describes how to use each station. (For user)
	Web Setting Manual (Electronic format (PDF file).) Describes how to set up each station through a web browser. (For system administrator)
	Installation Manual (Electronic format (PDF file).) Describes how to install each station. (For installer)

3. Configuring the system

After installing and connecting all stations, the system will need to be fully configured before it will be operational.
IX system can be configured in one of the two methods below. Choose one method. Using the "IX Support Tool" (1) is recommended.

(1) Configure using the "IX Support Tool" application
   – Install the application on a PC and use to create the configuration for all stations.
   – Search for IX systems on the network; assign and upload configuration data for the system.
(2) Configure each station through a web browser (web configuration)
   – Access each station through a web browser, and configure each station individually.
   – When configuring a station without using IX Support Tool, settings must be manually input and the setting data must be individually stored.

! Important

- Once the system has been configured through a browser, the settings cannot be transferred to the IX Support Tool. Using the IX Support Tool is the recommended method to manage settings.

- If web browser configuration is used to change the "Identification" "Number♦♣ (→page 56)", "ID and Password" "Administrator ID♦♣ (→page 57)" "Administrator Password♦♣ (→page 57)", "IPv4 Address" "IP Address♦♣ (→page 64)", and "IPv6 Address" "IP Address♦♣ (→page 64)" and "Called Stations (for Door)♣ (→page 79)" after configured using the IX Support Tool, it will not be applied to the IX Support Tool settings.

4. Flowcharts for configuring the system

When configuring the system through a browser, follow the flowchart that fits the application. Save the setting file after configuring the system. Refer to "Settings File Backup (→page 137)" for information on how to save setting data. If the setting data is not saved, it may be impossible to restore it after maintenance or after-sales servicing.
Flowcharts are for configuration through a Web browser.
When configuring the system with IX Support Tool, refer to IX Support Tool Setting Manual.

For Static IPv4 Address →

- "Create new data (→page 9)"
- "Change the settings (→page 10)"
- "Add a station (→page 11)"
- "Delete a station (→page 12)"
- "Replace a station (→page 13)"

For IPv4 Address with DHCP →

- "Create new data (→page 14)"
- "Change the settings (→page 16)"
- "Add a station (→page 17)"
- "Delete a station (→page 18)"
- "Replace a station (→page 19)"

For Static IPv6 Address →

- "Create new data (→page 20)"
- "Change the settings (→page 21)"
- "Add a station (→page 22)"
- "Delete a station (→page 23)"
- "Replace a station (→page 24)"

For stateless IPv6 Address →

- "Create new data (→page 25)"
- "Change the settings (→page 27)"
- "Add a station (→page 28)"
- "Delete a station (→page 29)"
- "Replace a station (→page 30)"

For IPv6 Address with DHCP →

- "Create new data (→page 31)"
- "Change the settings (→page 33)"
- "Add a station (→page 34)"
- "Delete a station (→page 35)"
- "Replace a station (→page 36)"

4.1   For Static IPv4 Address

> **❗ Important**
>
> • Save the setting file after configuring the system. Refer to "Settings File Backup (→page 137)".
>
> • If the setting data is not saved, it may be impossible to restore if post-installation service or maintenance is required.

4.1.1   Create new data

Use this flowchart to create a new setting file, for example, when installing a new system.

---

1. Connect PC to the station to be configured.
The default IP addresses of the stations are identical, so connect and configure one at a time.
"Connecting to a PC (→page 41)"

⬇

2. Log in to the web server of the station to configure.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

3. Set "Language (→page 59)".
Click **[Update]** to update the settings.

⬇

4. Configure the station.
"Configuring the Station (→page 55)"

⬇

5. Configure other stations in the same manner.
Refer to each station's Web Setting Manual.

⬇

6. Complete.

4.1.2 Change the settings

Use this flowchart to change the settings.

1. Log in to the web server of the station whose settings are to be modified.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

2. Configure the station.
"Configuring the Station (→page 55)"

⬇

Were any of the following changed? **[Number], [Name], [Location], [IP Address]**

YES ⬇   NO ⬇

3. Revise settings for other stations and software related to what was changed.   3. Complete.

⬇

4. Complete.
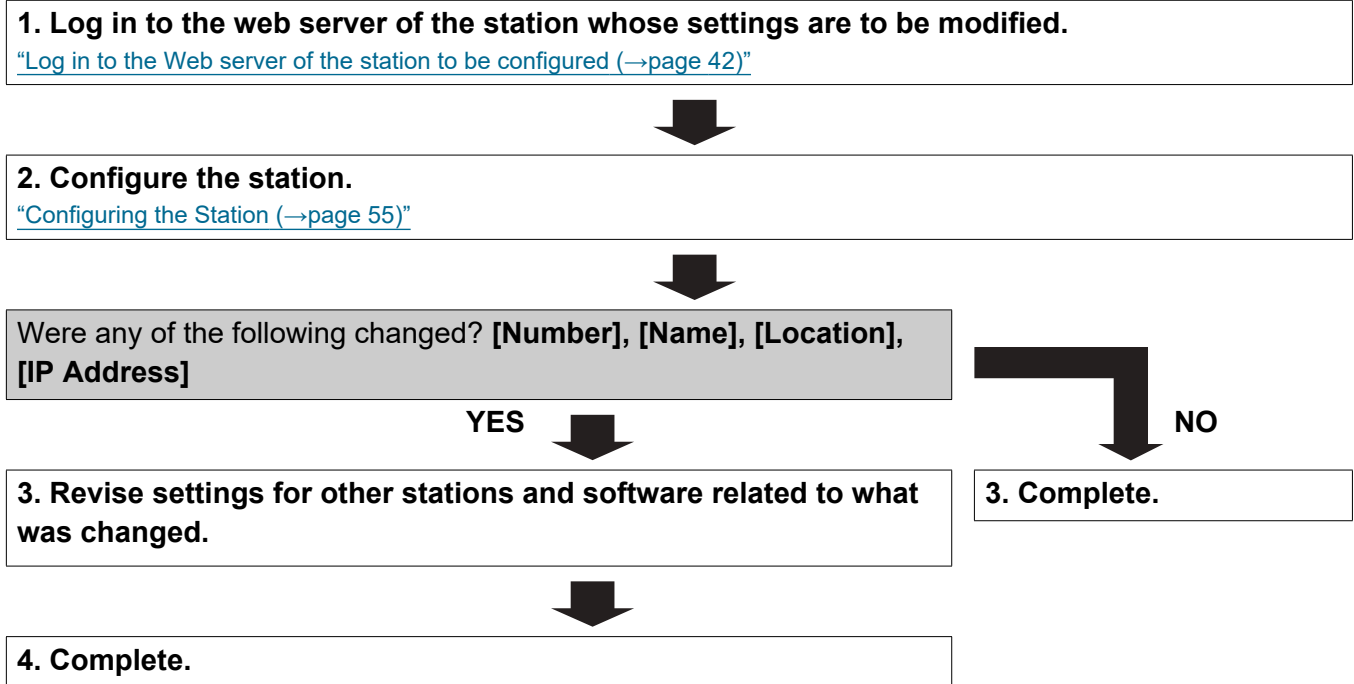
4.1.3 Add a station

Use this flowchart to add a station.

1. Connect PC to the station to be added.
Connect one at a time.
"Connecting to a PC (→page 41)"

⬇

2. Log in to the web server of the station to be added.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

3. Set "Language (→page 59)".
Click **[Update]** to update the settings.

⬇

4. Configure the station.
"Configuring the Station (→page 55)"

⬇

5. Add settings data to existing stations if required.

⬇

6. Complete.

4.1.4   Delete a station

Use this flowchart to delete a station.

ⓘ Important
• Be sure to delete the data of the station from all other stations and Support Tool. Not doing so may result in slower operation.

1. Delete the data of the station from all other stations and Support Tool.

2. Complete.

4.1.5   Replace a station

Use this flowchart to replace a station.

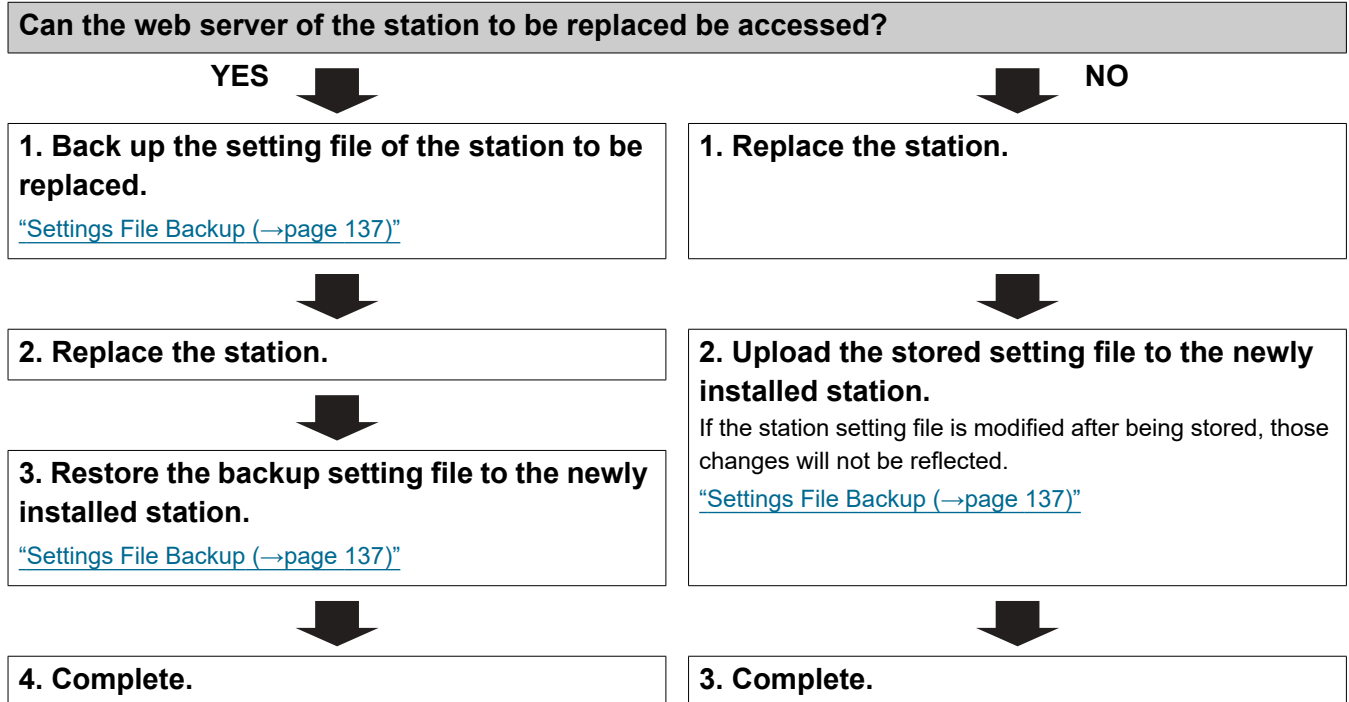| Can the web server of the station to be replaced be accessed? |
|---|

YES   **NO**

1. Back up the setting file of the station to be replaced. "Settings File Backup (→page 137)"	**1. Replace the station.**

2. Replace the station.	**2. Upload the stored setting file to the newly installed station.** If the station setting file is modified after being stored, those changes will not be reflected. "Settings File Backup (→page 137)"

3. Restore the backup setting file to the newly installed station. "Settings File Backup (→page 137)"	

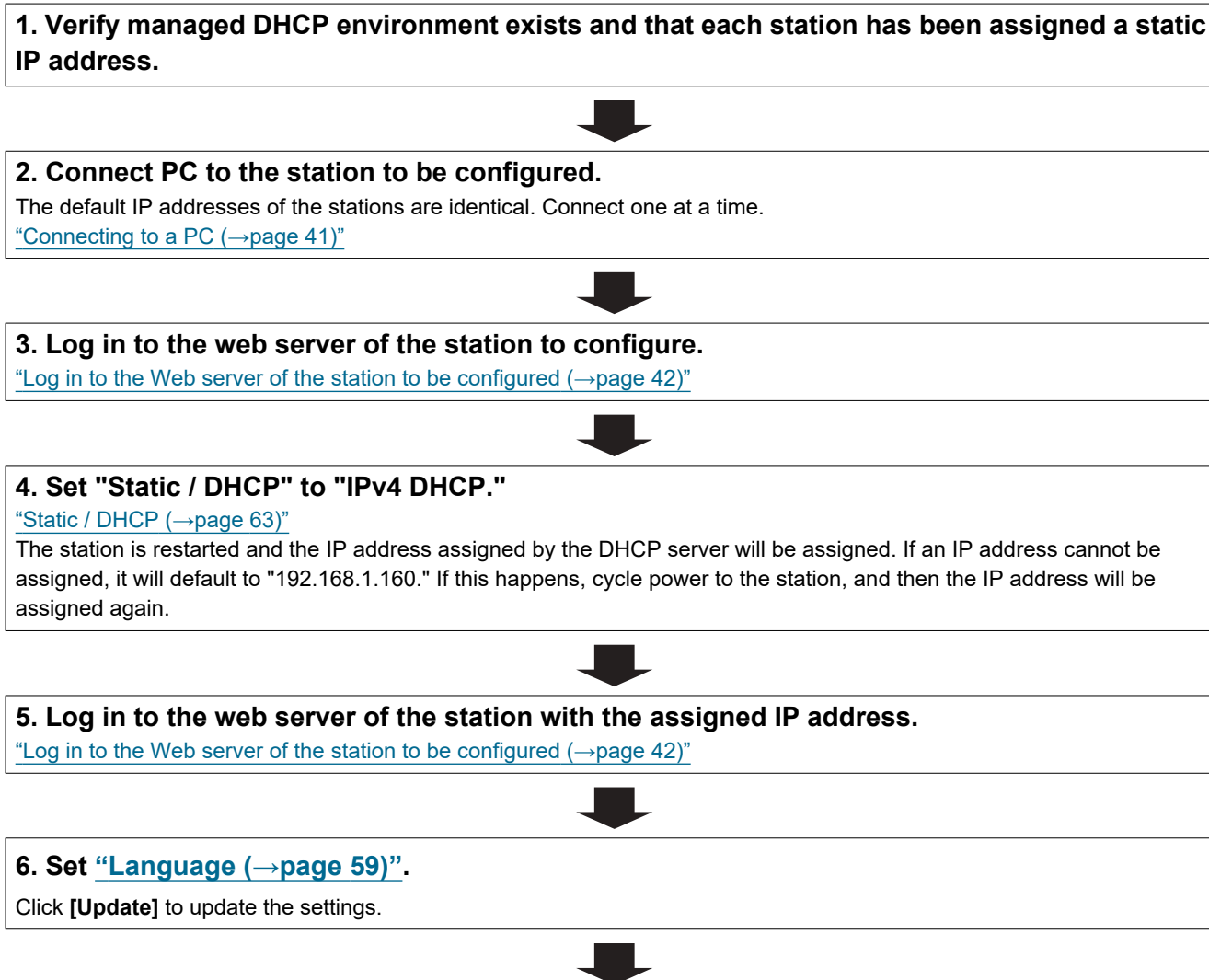| **4. Complete.**	**3. Complete.**

4.2 For IPv4 Address with DHCP

> **! Important**
>
> • Due to the architecture of the IX system, DHCP configuration is only recommended for network environments utilizing managed (static) IP address leasing. For how to set up the DHCP server, refer to its manual.
>
> • Save the setting file after configuring the system. Refer to "Settings File Backup (→page 137)".
>
> • If the setting data is not saved, it may be impossible to restore if post-installation service or maintenance is required.

4.2.1 Create new data

Use this flowchart to create a new setting file, for example, when installing a new system.

---

1. Verify managed DHCP environment exists and that each station has been assigned a static IP address.

⬇

2. Connect PC to the station to be configured.
The default IP addresses of the stations are identical. Connect one at a time.
"Connecting to a PC (→page 41)"

⬇

3. Log in to the web server of the station to configure.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

4. Set "Static / DHCP" to "IPv4 DHCP."
"Static / DHCP (→page 63)"
The station is restarted and the IP address assigned by the DHCP server will be assigned. If an IP address cannot be assigned, it will default to "192.168.1.160." If this happens, cycle power to the station, and then the IP address will be assigned again.

⬇

5. Log in to the web server of the station with the assigned IP address.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

6. Set "Language (→page 59)".
Click **[Update]** to update the settings.

⬇

7. Configure the station.

"Configuring the Station (→page 55)"
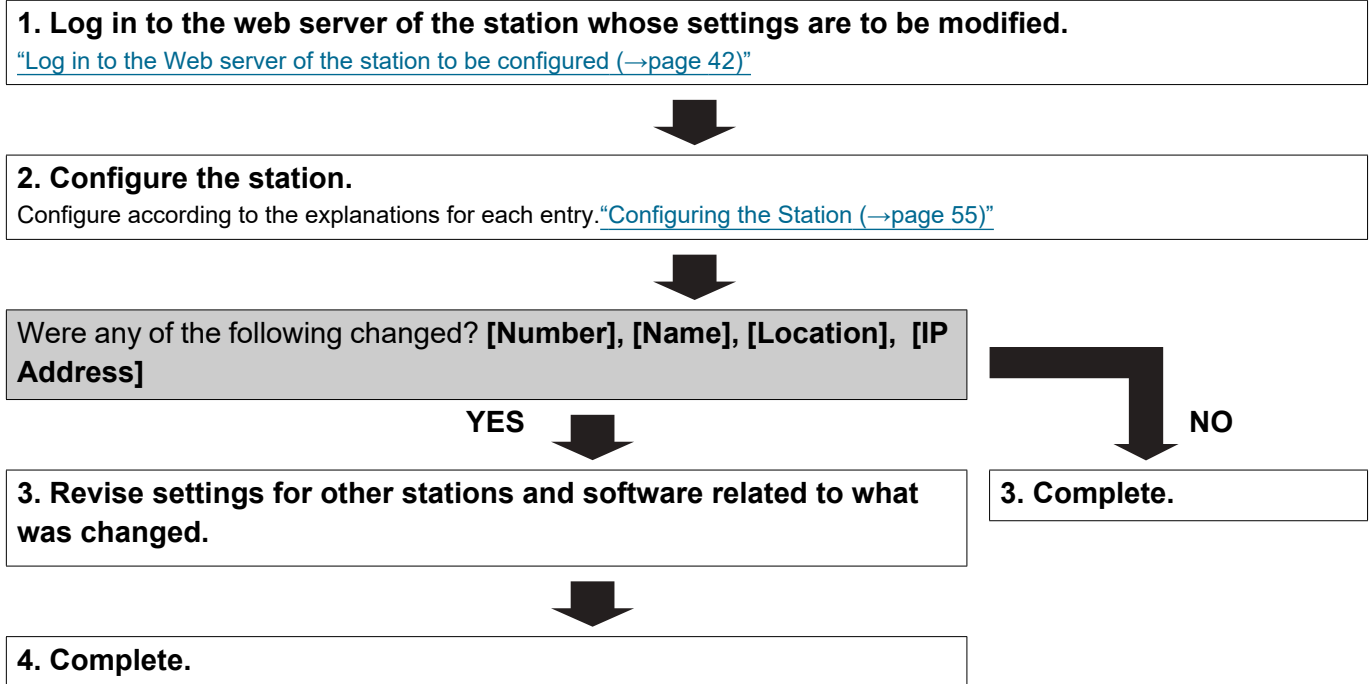
8. Configure other stations in the same manner.

Refer to each station's Web Setting Manual.

9. Complete.

4.2.2   Change the settings

Use this flowchart to change the settings.

---

1. Log in to the web server of the station whose settings are to be modified.

"Log in to the Web server of the station to be configured (→page 42)"

⬇

2. Configure the station.

Configure according to the explanations for each entry."Configuring the Station (→page 55)"

⬇

Were any of the following changed? **[Number], [Name], [Location], [IP Address]**

YES ⬇   **NO** ⬇

3. Revise settings for other stations and software related to what was changed.   **3. Complete.**

⬇

4. Complete.

4.2.3 Add a station

Use this flowchart to add a station.

---

1. Configure the DHCP server to assign a static IP address.
For how to set up the DHCP server, refer to its manual.

▼

2. Connect PC to the station to be added.
Connect stations one at a time to avoid IP address conflict.
"Connecting to a PC (→page 41)"

▼

3. Log in to the web server of the station.
"Log in to the Web server of the station to be configured (→page 42)"

▼

4. Set "Static / DHCP" to "IPv4 DHCP."
"Static / DHCP (→page 63)"
The station is restarted and the IP address assigned by the DHCP server beforehand will be assigned. If an IP address cannot be assigned, it will default to "192.168.1.160." If this happens, cycle power to the station, and then the IP address will be assigned again.

▼

5. Log in to the web server of the station with the assigned IP address.
"Log in to the Web server of the station to be configured (→page 42)"

▼

6. Set "Language (→page 59)".
Click **[Update]** to update the settings.

▼

7. Configure the station.
"Configuring the Station (→page 55)"

▼

8. Add settings data to existing stations if required.

▼

9. Complete.

4.2.4 Delete a station

Use this flowchart to delete a station.

> ⓘ **Important**
>
> • Be sure to delete the data of the station from all other stations and Support Tool. Not doing so may result in slower operation.
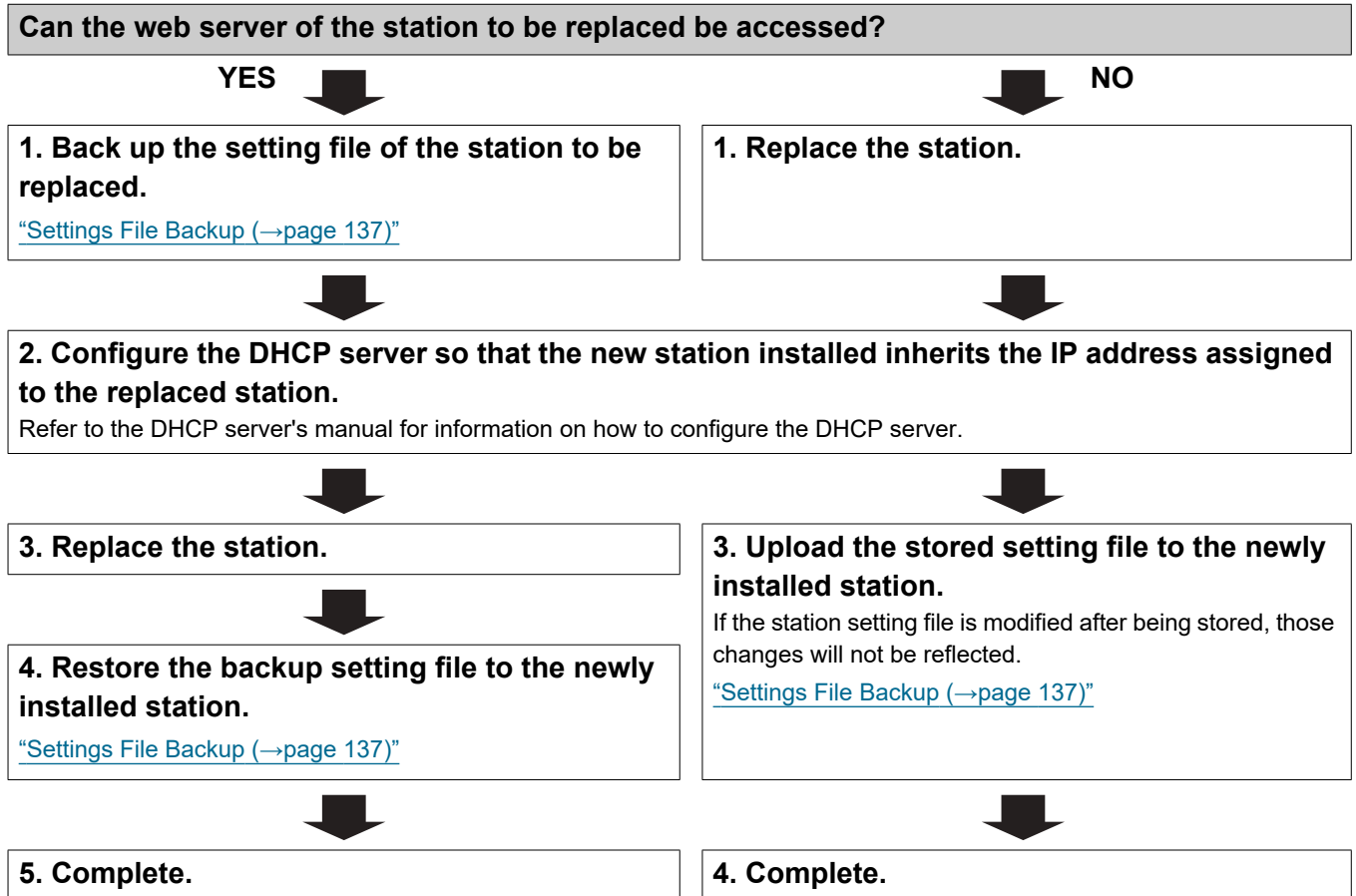
1. Delete the data of the station from all other stations and Support Tool.

2. Complete.

4.2.5 Replace a station

Use this flowchart to replace a station.

Can the web server of the station to be replaced be accessed?

YES ▼   ▼ **NO**

1. Back up the setting file of the station to be replaced. "Settings File Backup (→page 137)"	**1. Replace the station.**

▼   ▼

2. Configure the DHCP server so that the new station installed inherits the IP address assigned to the replaced station. Refer to the DHCP server's manual for information on how to configure the DHCP server.

▼   ▼

3. Replace the station.	**3. Upload the stored setting file to the newly installed station.** If the station setting file is modified after being stored, those changes will not be reflected. "Settings File Backup (→page 137)"

▼

4. Restore the backup setting file to the newly installed station. "Settings File Backup (→page 137)"

▼   ▼

5. Complete.	**4. Complete.**

4.3 For static IPv6 address

> **❗ Important**
>
> • Save the settings after configuring the system. Refer to "Settings File Backup (→page 137)".
>
> • If the setting data is not saved, it may be impossible to restore if post-installation service or maintenance is required.

4.3.1 Create new data

Use this flowchart to create a new setting file, for example, when installing a new system.

---

1. Connect PC to the station to be configured.
The default IP addresses of the stations are identical. Connect one at a time.
"Connecting to a PC (→page 41)"

⬇

2. With default IPv4 Address (192.168.1.160), log in to the Web server of the station to be configured.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

3. Set "Static / DHCP" to "Static IPv6" and configure "IPv6 Address."
"Static / DHCP (→page 63)"
The station will be restarted with the assigned IPv6 Address.

⬇

4. Configure IPv6 addresses for other stations.

⬇

5. Log in to the web server of each station with IPv6 address.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

6. Set "Language (→page 59)".
Click **[Update]** to update the settings.

⬇

7. Configure the station.
"Configuring the Station (→page 55)"
Refer to "Web Setting Manual" for each station.

⬇

8. Complete.

4.3.2 Change the settings

Use this flowchart to change the settings.

1. Log in to the web server of the station whose settings are to be modified.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

2. Configure the station.
"Configuring the Station (→page 55)"

⬇

Were any of the following changed? **[Number], [Name], [Location], [IP Address]**

YES ⬇   **NO** ⬇

3. Revise settings for other stations and software related to what was changed.   **3. Complete.**

⬇

4. Complete.
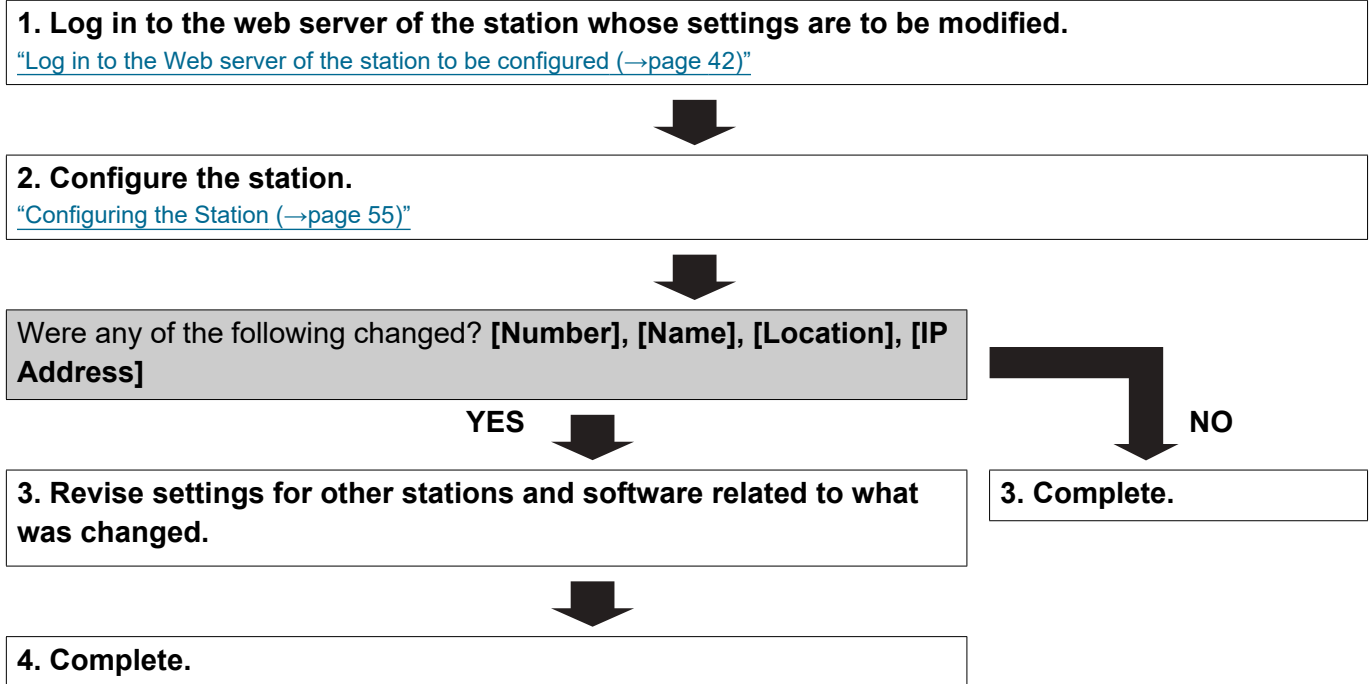
4.3.3 Add a station

Use this flowchart to add a station.

---

1. Connect PC to the station to be added.

Connect stations one at a time to avoid IP address conflict.

"Connecting to a PC (→page 41)"

⬇

2. With default IPv4 Address (192.168.1.160), log in to the Web server of the station to be added.

"Log in to the Web server of the station to be configured (→page 42)"

⬇

3. Set "Static / DHCP" to "Static IPv6" and configure "IPv6 Address."

"Static / DHCP (→page 63)"

The station will be restarted with the assigned IPv6 Address.

⬇

4. Log in to the web server of the added station with IPv6 address.

"Log in to the Web server of the station to be configured (→page 42)"

⬇

5. Set "Language (→page 59)".

Click **[Update]** to update the settings.

⬇

6. Configure the station.

"Configuring the Station (→page 55)"

⬇

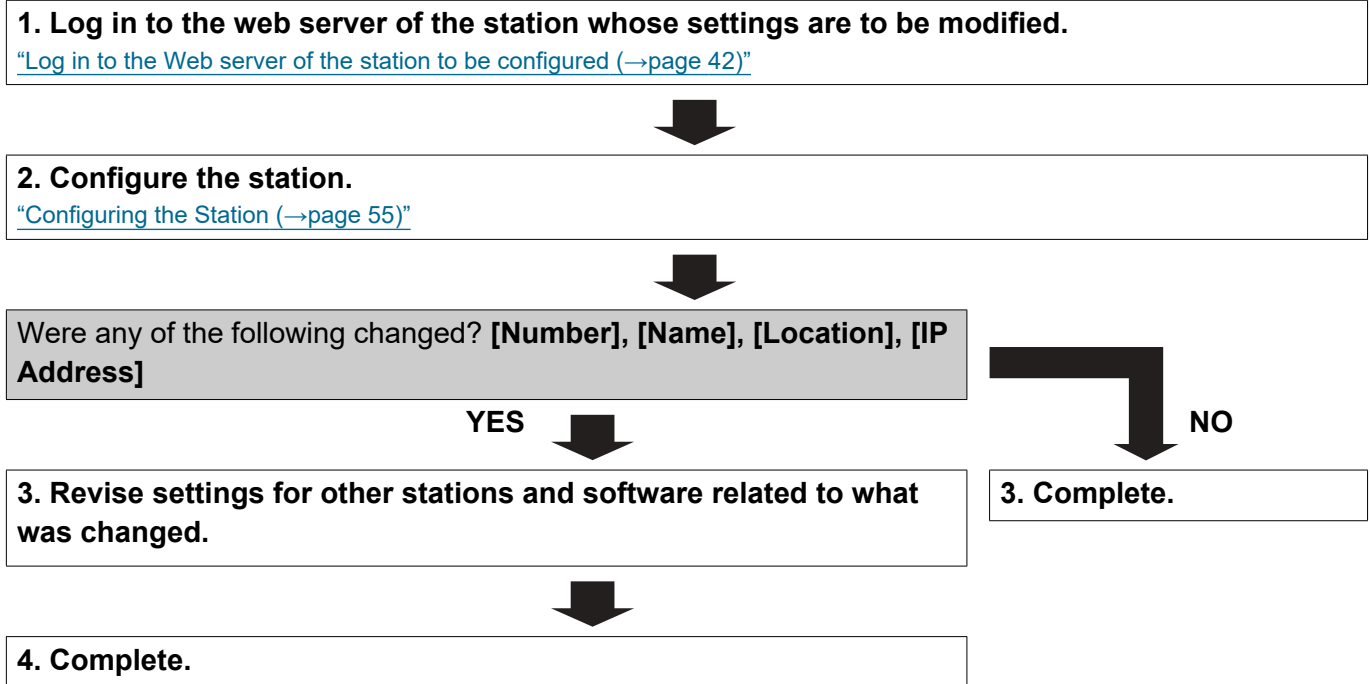**7. Add settings data to existing stations if required.**

⬇

8. Complete.

4.3.4 Delete a station

Use this flowchart to delete a station.

> ❗ **Important**
>
> • Be sure to delete the data of the station from all other stations and Support Tool. Not doing so may result in slower operation.

1. Delete the data of the station from all other stations and Support Tool.

2. Complete.

4.3.5 Replace a station

Use this flowchart to replace a station.

Can the web server of the station to be replaced be accessed?

YES ⬇   ⬇ **NO**

1. Back up the setting file of the station to be replaced. "Settings File Backup (→page 137)"	**1. Replace the station.**

⬇   ⬇

2. Replace the station.	**2. Upload the stored setting file to the newly installed station.** If the station setting file is modified after being stored, those changes will not be reflected. "Settings File Backup (→page 137)"

⬇

3. Restore the backup setting file to the newly installed station. "Settings File Backup (→page 137)"	

⬇   ⬇

4. Complete.	**3. Complete.**

4.4　For Stateless IPv6 Address

> **❗ Important**
>
> • Save the setting file after configuring the system. Refer to "Settings File Backup (→page 137)".
>
> • If the setting data is not saved, it may be impossible to restore if post-installation service or maintenance is required.

4.4.1　Create new data

Use this flowchart to create a new setting file, for example, when installing a new system.
Support Tool is needed to configure the system using this flowchart. Install Support Tool, and set for IPv6. For set up information, refer to "IX Support Tool Setting Manual."

---

1. Install a device (e.g., router) which can transmit RA (supports the stateless IPv6 setting).
Do not change the prefix of the device that can transmit Router Advertisement (RA). For how to set up the device,

⬇

2. Connect PC to the station to be configured.
The default IP addresses of the stations are identical. Connect one at a time.
"Connecting to a PC (→page 41)"

⬇

3. With default IPv4 Address (192.168.1.160), log in to the Web server of the station to be configured.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

4. Set "Static / DHCP" to "IPv6 Stateless."
"Static / DHCP (→page 63)"
The station restarts and an IPv6 address is automatically configured. If the IP address fails to be automatically configured, it will become "FDC2::7000." If this happens, cycle power to the station, and then the IP address will be automatically reconfigured.

⬇

5. Configure other stations to be "IPv6 Stateless."

⬇

6. Search each station with Support Tool for its IPv6 address.

⬇

●●●

⬇

7. Log in to the web server of each station with the IPv6 addresses identified.

⬇

8. Set "Language (→page 59)".

Click **[Update]** to update the settings.

⬇

9. Configure the station.

Refer to "Web Setting Manual" for each station.

⬇

10. Complete.

4.4.2　Change the settings

Use this flowchart to change the settings.

1. Log in to the web server of the station whose settings are to be modified.
"Log in to the Web server of the station to be configured (→page 42)"

2. Configure the station.
"Configuring the Station (→page 55)"

Were any of the following changed? **[Number], [Name], [Location], [IP Address]**

YES　　　　　　　　　　　　　　　　　　　　　　**NO**

3. Revise settings for other stations and software related to what was changed.

3. Complete.

4. Complete.

27

4.4.3 Add a station

Use this flowchart to add a station.

Support Tool is needed to configure the system using this flowchart. Install Support Tool, and set for IPv6. For set up information, refer to "IX Support Tool Setting Manual."

---

1. Connect PC to the station to be added.

Connect stations one at a time to avoid IP address conflict.

"Connecting to a PC (→page 41)"

⬇

2. With default IPv4 Address (192.168.1.160), log in to the Web server of the station to be added.

"Log in to the Web server of the station to be configured (→page 42)"

⬇

3. Set "Static / DHCP" to "IPv6 Stateless."

"Static / DHCP (→page 63)"

The station restarts and an IPv6 address is automatically configured. If the IP address fails to be automatically configured, it will become "FDC2::7000." If this happens, cycle power to the station, and then the IP address will be automatically reconfigured.

⬇

4. Search each station to be added with Support Tool for its IPv6 address.

⬇

5. Log in to the web server of the station with the IPv6 Address that have been identified.

"Log in to the Web server of the station to be configured (→page 42)"

⬇

6. Set "Language (→page 59)".

Click **[Update]** to update the settings.

⬇

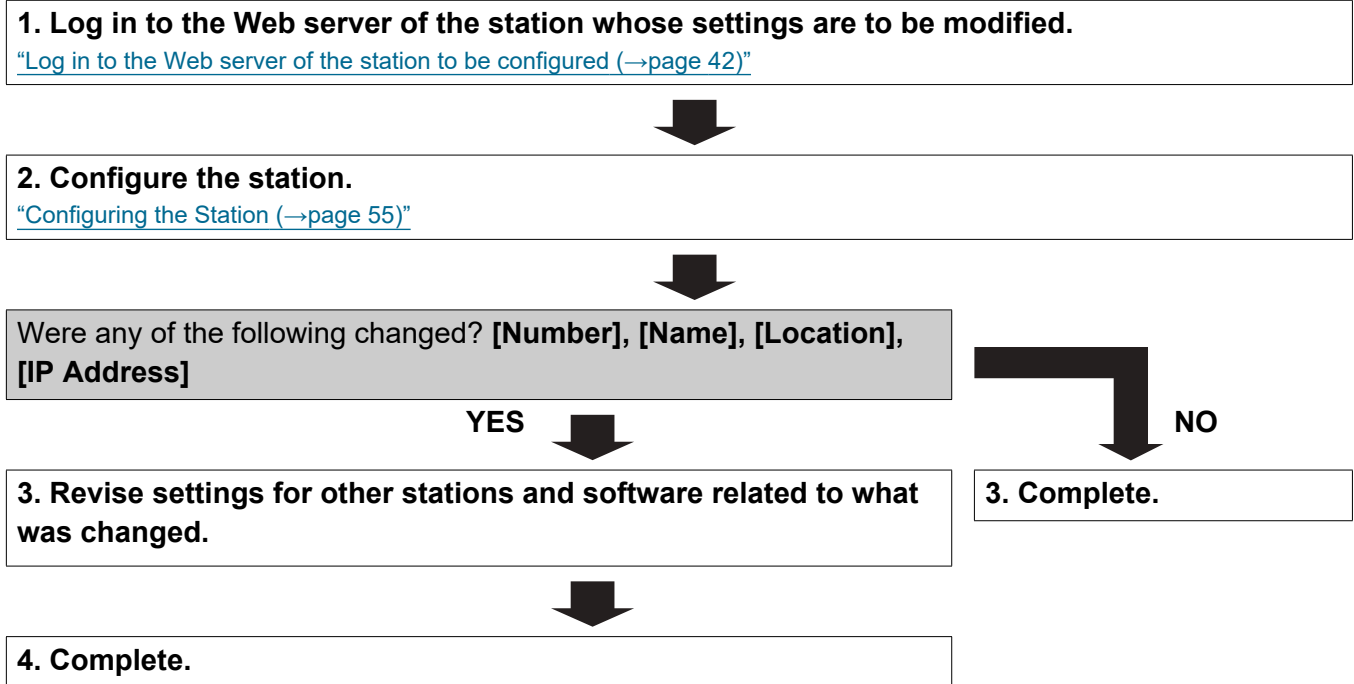**7. Configure the station.**

"Configuring the Station (→page 55)"

⬇

8. Add settings data to existing stations if required.

⬇

9. Complete.

4.4.4 Delete a station

Use this flowchart to delete a station.

> ❗ **Important**
>
> • Be sure to delete the data of the station from all other stations and Support Tool. Not doing so may result in slower operation.
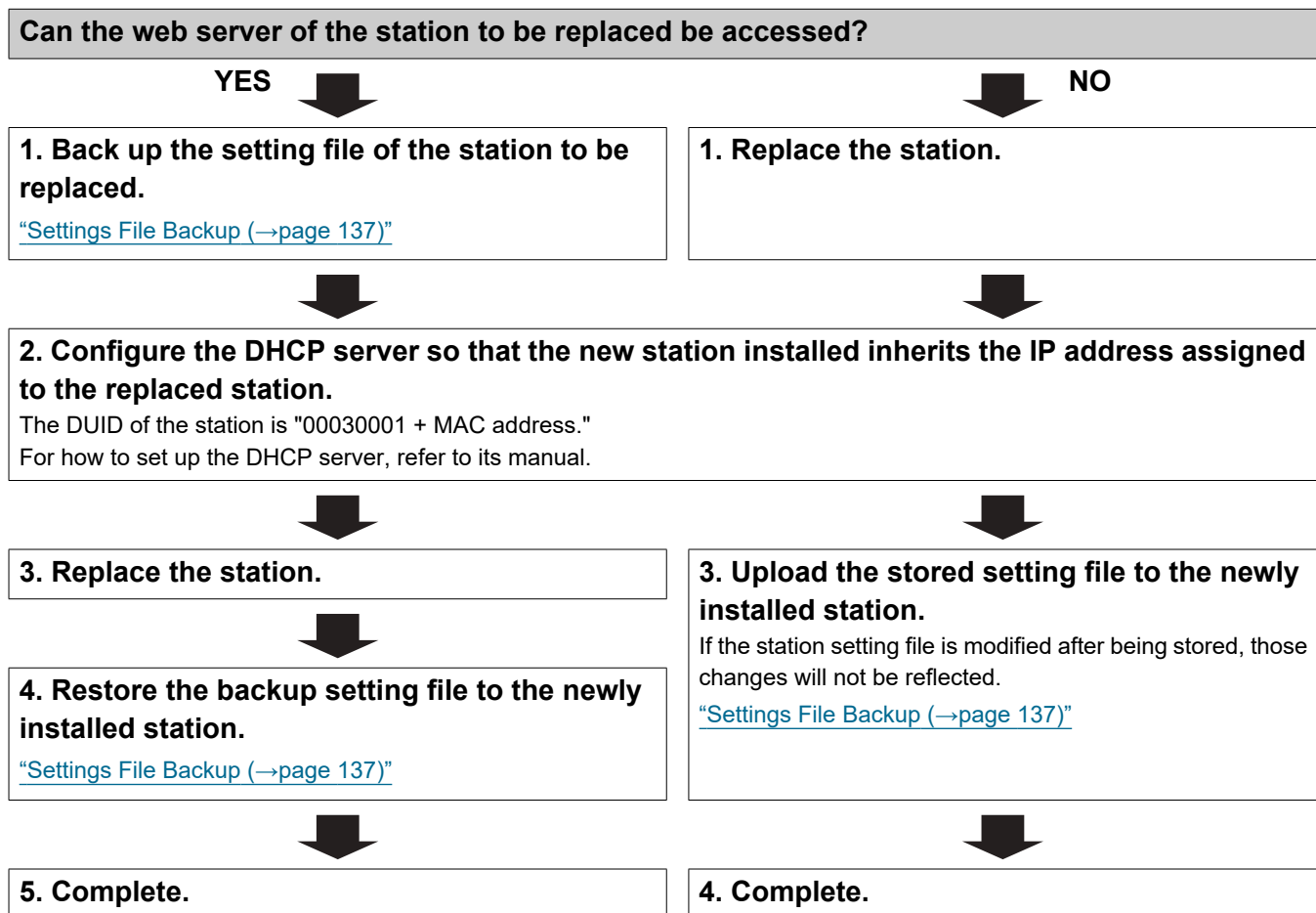
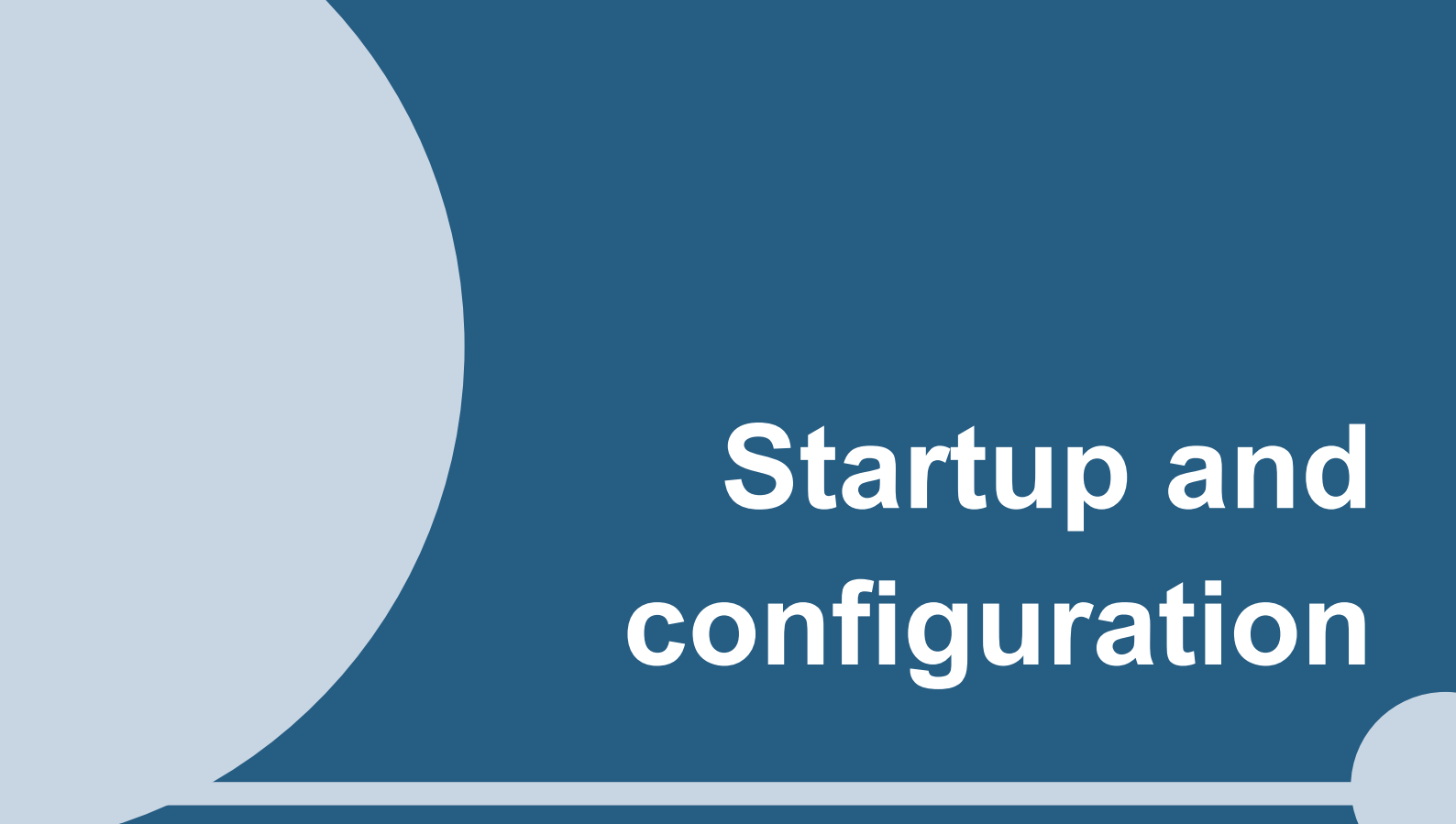**1. Delete the data of the station from all other stations and Support Tool.**

⬇

2. Complete.

4.4.5 Replace a station
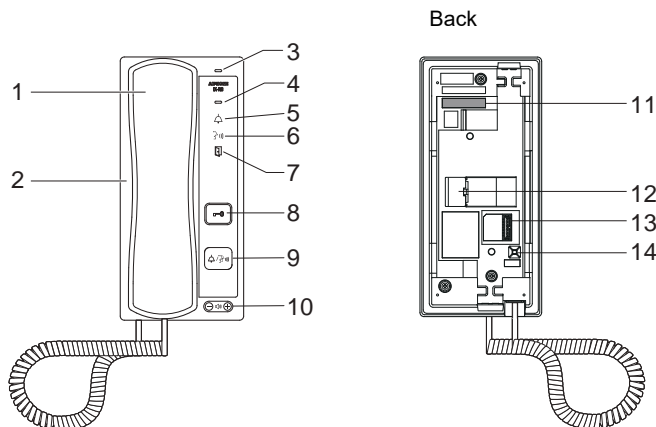
Use this flowchart to replace a station.
Support Tool is needed to configure the system using this flowchart. Install Support Tool, and set for IPv6. For set up information, refer to "IX Support Tool Setting Manual."

Can the web server of the station to be replaced be accessed?

YES ▼   **NO** ▼

YES	NO
1. Download the settings of the station to be replaced. "Settings File Backup (→page 137)"	**1. Replace the station.**
▼	▼
2. Replace the station.	**2. Upload the stored setting file to the newly installed station.** If the station settings were modified after being stored, those changes will not be reflected. "Settings File Backup (→page 137)" The station is restarted and the IPv6 address is automatically configured.
▼	
3. Upload the stored setting file to the newly installed station. "Settings File Backup (→page 137)" The station is restarted and the IPv6 address is automatically configured.	
▼	▼
4. Search using IX Support Tool for each new station's IPv6 Address.	**3. Search using IX Support Tool for each new station's IPv6 Address.**
▼	▼
5. Update the IPv6 address of the replaced station that was registered in other stations and software.	**4. Update the IPv6 address of the replaced station that was registered in other stations and software.**
▼	▼
6. Complete.	**5. Complete.**

30

4.5 For IPv6 Address with DHCP

⊕ Important

• Save the setting file after configuring the system. Refer to "Settings File Backup (→page 137)".

• If the setting data is not saved, it may be impossible to restore if post-installation service or maintenance is required.

4.5.1 Create new data

Use this flowchart to create a new setting file, for example, when installing a new system.

---

1. Verify managed DHCP environment exists and that each station has been assigned a static IP address.
Configure the DHCP server to assign a static IP address. The DUID of the station is "00030001 + MAC address."
For how to set up the DHCP server, refer to its manual.

⬇

2. Connect PC to the station to be configured.
The default IP addresses of the stations are identical. Connect one at a time.
"Connecting to a PC (→page 41)"

⬇

3. With default IPv4 Address (192.168.1.160), log in to the Web server of the station to be configured.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

4. Set "Static / DHCP" to "IPv6 DHCPv6."
"Static / DHCP (→page 63)"
The station restarts and the IPv6 address that is configured with the DHCP server beforehand is assigned. If the IP address fails to be automatically configured, it will become "FDC2::7000." If this happens, cycle power to the station, and then the IP address will be automatically reconfigured.

⬇

5. Configure other stations in the same manner.

⬇

6. Log in to the web server of the station with the assigned IPv6 Address.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

7. Set "Language (→page 59)".

Click **[Update]** to update the settings.

8. Configure the station.

"Configuring the Station (→page 55)"
Refer to "Web Setting Manual" for each station.

9. Complete.

4.5.2   Change the settings

Use this flowchart to change the settings.

1. Log in to the Web server of the station whose settings are to be modified.
"Log in to the Web server of the station to be configured (→page 42)"

⬇

2. Configure the station.
"Configuring the Station (→page 55)"

⬇

Were any of the following changed? **[Number], [Name], [Location], [IP Address]**

YES ⬇   NO ⬇

3. Revise settings for other stations and software related to what was changed.   **3. Complete.**

⬇

4. Complete.

4.5.3　Add a station

Use this flowchart to add a station.

---

1. Configure the DHCP server to assign a static IP address.

The DUID of the station is "00030001 + MAC address."
For how to set up the DHCP server, refer to its manual.

⬇

2. Connect PC to the station to be added.

Connect one at a time.
"Connecting to a PC (→page 41)"

⬇

3. With the default IPv4 Address (192.168.1.160), log in to the web server of the station to be added.

"Log in to the Web server of the station to be configured (→page 42)"

⬇

4. Set "Static / DHCP" to "IPv6 DHCPv6."

"Static / DHCP (→page 63)"
The station is restarted and the IPv6 address assigned by the DHCP server beforehand will be assigned. If an IP address cannot be assigned, it will default to "FDC2::7000." If this happens, cycle power to the station, and then the IP address will be assigned again.

⬇

5. Log in to the web server of the station with the assigned IPv6 Address.

"Log in to the Web server of the station to be configured (→page 42)"

⬇

6. Set "Language (→page 59)".

Click **[Update]** to update the settings.

⬇

7. Configure the station.

"Configuring the Station (→page 55)"

⬇

8. Add settings data to existing stations if required.

⬇

9. Complete.

4.5.4   Delete a station

Use this flowchart to delete a station.

> **！ Important**
>
> • Be sure to delete the data of the station from all other stations and Support Tool. Not doing so may result in slower operation.

1. Delete the data of the station from all other stations and Support Tool.

2. Complete.

4.5.5 Replace a station

Use this flowchart to replace a station.

Can the web server of the station to be replaced be accessed?	
YES ⬇	**NO** ⬇
1. Back up the setting file of the station to be replaced. "Settings File Backup (→page 137)"	**1. Replace the station.**
⬇	⬇
2. Configure the DHCP server so that the new station installed inherits the IP address assigned to the replaced station. The DUID of the station is "00030001 + MAC address." For how to set up the DHCP server, refer to its manual.	
⬇	⬇
3. Replace the station.	**3. Upload the stored setting file to the newly installed station.** If the station setting file is modified after being stored, those changes will not be reflected. "Settings File Backup (→page 137)"
⬇	
4. Restore the backup setting file to the newly installed station. "Settings File Backup (→page 137)"	
⬇	⬇
5. Complete.	**4. Complete.**

Startup and configuration

1. System requirements

PC requirements for configuration.

Network	Ethernet (10 BASE-T, 100 BASE-TX)
Web browser	Microsoft Edge / Internet Explorer 10.0, 11.0 / Mozilla Firefox 59 or 60 (TLS1.0, 1.1, or 1.2 enabled)

2. Part Names

Back

1	Handset	8	Door release button Only displayed when it can be used.
2	Speaker	9	Call/TALK button Can be used to answer, depending on the configuration. "Call Button Function (→page 79)"
3	Microphone	10	Ringtone/call volume[*1]
4	Status indicator (orange/blue)	11	MAC address
5	Call indicator (green) Illuminates when in use.	12	LAN port
6	Communication indicator (orange) Illuminates when in use.	13	Option connector terminal.
7	Door release indicator (green) Illuminates when in use.	14	Reset button[*2]

*1   Volume can be changed during an incoming call or in standby:
      Ringtone...0 (Off), 1 (Low) - 10 (High) (a tone is heard whenever volume is adjusted).
      Volumes that can be changed during a call:
      Handset Receive...1 (Low) - 10 (High)
      Hands-free Receive (also changes the paging reception and ringback tone volume)...1 (Low) - 10 (High)

*2   Press and hold the reset button for at least 1 second (less than 5 seconds), then release to restart (reset) the station.

■ Indicators

☀: ON, ▢ : OFF

Name		Status (pattern)	Description
Status indicator	Orange flashing	☀ 0.75 sec → ▢ 0.75 sec	Booting
		☀ 0.25 sec → ▢ 0.25 sec	Device error, Startup error
		☀ 0.5 sec → ▢ 4 sec	Communication failure
		☀ 1 sec → ▢ 0.25 sec → ☀ 0.25 sec → ▢ 0.25 sec → ☀ 0.25 sec → ▢ 0.25 sec	Firmware version updating
		☀ 1 sec → ▢ 0.25 sec → ☀ 0.25 sec → ▢ 0.25 sec	Initializing
	Blue light	☀	Standby

💡 Note

• For a status other than those noted here, refer to "Operation Manual."

3. Connecting to a PC

Connect the station with a PC using a PoE compatible switch.
- Use CAT5e/6 straight cable to connect the devices through the LAN port.
- The station will start up with the default IP address of 192.168.1.160 and subnet mask of 255.255.255.0. Change the PC IP address as necessary.
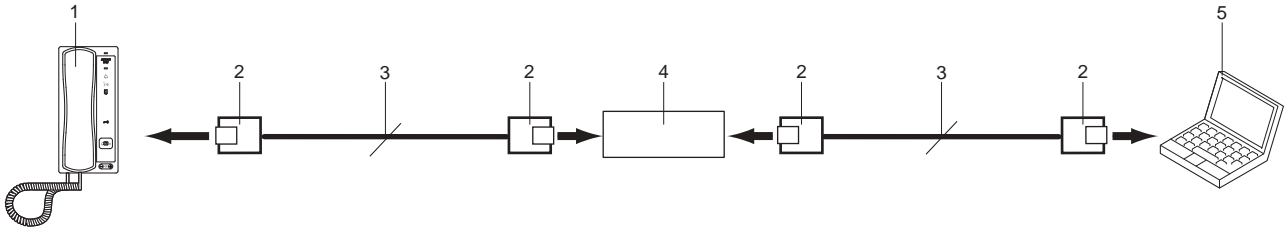
1	IX-RS	4	PoE compatible switch
2	RJ45	5	PC
3	CAT5e/6 straight cable		

4. Log in to the Web server of the station to be configured

1. Apply power to the station.
- Power is supplied by a PoE compatible switch.
- The status indicator flashes (orange) when the station is starting.
- The status indicator will light up blue once the station has started.

2. Start the PC and open one of the before mentioned web browsers.

3. Enter the address below in the address bar of the browser to access the configuration Web server.
IPv4 example - https://IP address of this device/webset.cgi?login
- Enter the IP address of the station to be configured.
- IPv6 example - https://[IP address of this device]/webset.cgi?login
- The default IP address is 192.168.1.160, and the subnet mask is 255.255.255.0.

> 💡 **Note**
>
> - If a station cannot be accessed, press and hold the reset button until the status indicator flashes orange. The IP Address, Subnet Mask, Administrator ID, Administrator Password, User ID, and User Password will return to default. Access the device within one minute of resetting.

4. A certificate error screen is displayed. Click **[Go on to the webpage]**.

> ❗ **Important**
>
> - To prevent the certificate error, perform the procedures described in "CSR (→page 122)" and "SSL Certificate (→page 124)".

5. Select a language. The login window of the selected language will be shown.

6. Enter the ID and password.

Types of accounts	Default values
Administrator account	ID: admin Password: admin
User account	ID: user Password: user

Important

• When logging in at the first time, be sure to change the ID and password.

7. Click **[Login]** to show the setting window.

Note

• Do not login multiple times using multiple browsers at one time on the same PC.

44

5. Setting window

When logging into the web server of the station, the following setting window will be shown. This window will be used to configure the station.
 • Depending on PC and OS being used, the window may be slightly different.
 • After configuring the station, confirm its operation by referring to the "Operation Manual."

Setting window example

Settings window: This indicates the Settings window of the title selected.

Update button: Click this button to update the station settings.
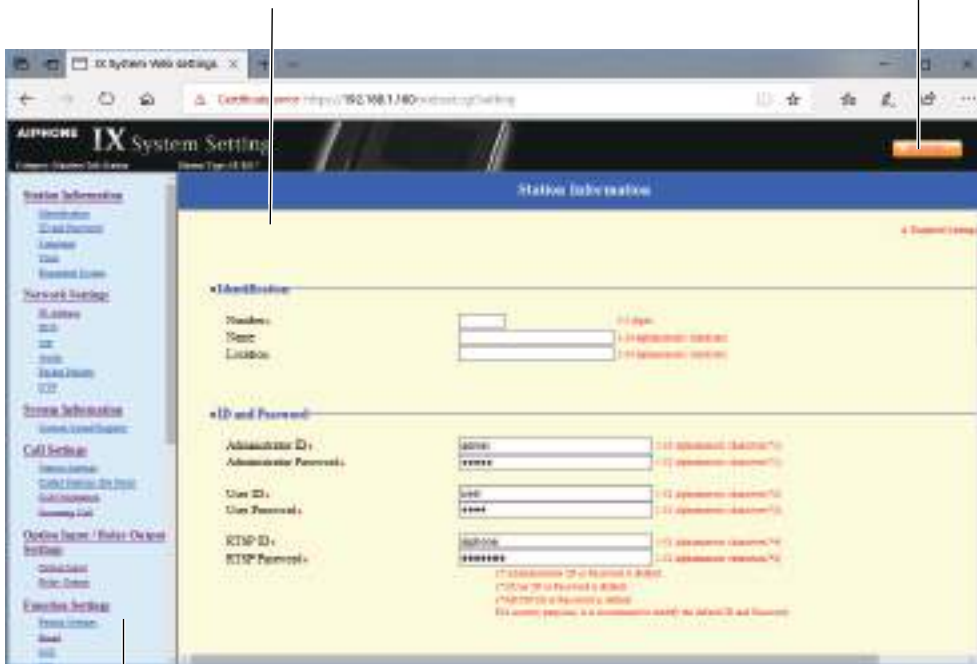
Setting menu: Shows all items that can be configured. Click the title to be configured and the appropriate setting window will display.

5.1 How to configure

1. Click the title to be configured.
 • The setting window for that particular title will be displayed.

2. Configure settings for each entry.

3. When configuration is complete in this window, click **[Update]** to update the settings.
 • When the settings are updated, "Settings updated." will be displayed at the top left corner in the window.
 • If an update fails, an error message will be displayed.
 • To cancel any changes, click another title in the setting menu.
 • Do not remove power to the station while updating.

4. Repeat Steps 1 to 3 for other settings.
   • To log out of the web server of the station, click **[Log out]** in the setting menu.

💡 **Note**

• To exit the station's web setting, click **[Log out]** and do not close the browser window by clicking **[X]**. If **[Log out]** is not used, it will be unable to login for approximately 1 hour.

• If the setting window switch to another without clicking **[Update]**, the settings will not be saved.

• When no activity is detected for one hour, the connection will be automatically terminated.

---

6. System settings list

The table below shows all the settings for the system.

The symbols indicate the following:

♦: Indicates a required field. A value must be entered. Retain the default settings, unless a change is necessary.

♣: Indicates that Support Tool has uploaded the data. If the entry is altered through a web browser, Support Tool will not recognize the change.

- The following list shows an overview of web configuration. The content, how they are displayed, and the order of entries may vary from the actual screens.
- Download the setting file and store it at a safe location . Otherwise, it may become impossible to restore the settings after fixing a malfunction.

Access privileges
A: Administrator
U: User

Entry				Access privileges		Reference page
				A	U	
Station Information						
Identification	-	-	Number♦♣	✓		56
			Name	✓		56
			Location	✓		56
ID and Password	-	-	Administrator ID♦♣	✓		57
			Administrator Password♦♣	✓		57
			User ID♦	✓	✓	57
			User Password♦	✓	✓	57
			RTSP ID♦	✓	✓	57
			RTSP Password ♦	✓	✓	57
Language	-	-	Language	✓	✓	59
Time	Time Zone	-	Select time zone	✓	✓	60
	Daylight Savings Time	-	Enable automatic daylight savings time	✓	✓	60
	Date and Time	-	Set date and time	✓	✓	61
Expanded System	-	-	-	✓		62
Network Settings						
IP Address	Static / DHCP	-	-	✓		63
	IPv4 Address	-	IP Address♦♣	✓		64
			Subnet Mask♦	✓		64
			Default Gateway	✓		64
	IPv6 Address	-	IP Address♦♣	✓		64
			Default Gateway	✓		64

Entry				Access privileges		Reference page
				A	**U**	
DNS	Primary Server	-	IPv4	✓		65
			IPv6	✓		65
	Secondary Server	-	IPv4	✓		65
			IPv6	✓		65
SIP	SIP Connections	-	SIP Signaling Port♦	✓		66
			User Agent	✓		66
	SIP Server	Primary Server	ID	✓		66
			Password	✓		67
			IPv4 Address	✓		67
			IPv6 Address	✓		67
			Port♦	✓		67
		Secondary Server	ID	✓		67
			Password	✓		67
			IPv4 Address	✓		67
			IPv6 Address	✓		68
			Port♦	✓		68
		Tertiary Server	ID	✓		68
			Password	✓		68
			IPv4 Address	✓		68
			IPv6 Address	✓		68
			Port♦	✓		68
	Miscellaneous	-	Register Transmission Interval [sec]♦	✓		69
			DTMF digit interval timeout [sec]♦	✓		69
			Call health check timer♦	✓		69
Audio	-	-	Audio Codec	✓		70
			Audio RTP Transmission Interval [msec]	✓		71
			RTP Idle Detection Time [sec]♦	✓		71
			Audio 1 RTP Start Port♦	✓		72
			Audio 1 RTP End Port♦	✓		72
			Audio 2 RTP Start Port♦	✓		72
			Audio 2 RTP End Port♦	✓		72
	Audio Buffer	-	Packets Buffered at Audio Start	✓		73
			Maximum Packets Buffered	✓		73

Entry				Access privileges		Reference page
				A	U	
Packet Priority	-	-	TOS Value (Audio)♦	✓		74
			TOS Value (SIP)♦	✓		74
			VLAN Setting	✓		74
			VLAN ID♦	✓		74
			VLAN Priority	✓		74
NTP	Enable NTP	-	-	✓	✓	75
	Synchronization Interval [hour]♦	-	-	✓		75
	Primary Server	Address	IPv4	✓		75
			IPv6	✓		75
		Port♦	-	✓		76
	Secondary Server	Address	IPv4	✓		76
			IPv6	✓		76
		Port♦	-	✓		76
System Information						
Custom Sound Registry	-	-	-	✓	✓	77
Call Settings						
Station Information	-	-	Call Button Function	✓		79
Called Stations (for Door)♣	-	-	Station Number	✓		80
			IPv4 Address	✓		80
			IPv6 Address	✓		80
			Station Type	✓		80
Call Origination	Call origination advanced settings	-	Call Method	✓	✓	81
			Ringback Tone	✓	✓	82
			Call Timeout♦	✓	✓	82
			Ringback Tone Count [time(s)]	✓	✓	82
		Standard Mode Settings	Call Destination	✓	✓	82
			Priority	✓	✓	83
		Destination by Time Delay Settings	Call Destination	✓	✓	83
			Priority	✓	✓	83
			Destination Dwell Time [sec]♦	✓	✓	83
		Schedule Settings	-	✓	✓	83
	Tone Settings	-	Busy Tone	✓	✓	87
			Error Tone (Call Failed)	✓	✓	87
	Call Restart Function	-	Call Restart Function	✓	✓	88

Entry				Access privileges		Reference page
				A	U	
Incoming Call	Call Answer Settings	-	Auto Answer	✓	✓	89
	Ringtone	-	Ringtone	✓	✓	89
			Ringback Tone Count [time(s)]	✓	✓	90
	VoIP Phone	-	VoIP Phone Call Priority	✓	✓	90
Option Input / Relay Output Settings						
Option Input	Option Input Advanced Settings	-	Name	✓		91
			Function	✓		91
			Type	✓		92
			Detection Time Range	✓		92
			API 1	✓		92
			API 2	✓		92
Relay Output	Relay Output Advanced Settings	-	Name	✓		94
			Function	✓		94
			Option Relay Control	✓		95
			Output Time Range	✓		95
			Authentication Key	✓	✓	95
			Sound Settings	✓	✓	96
		Schedule Settings	-	✓		97
	Option Relay Control Authentication Key	-	-	✓	✓	99
Function Settings						
Paging Settings	-	-	Paging Pretone	✓	✓	100
Email	Server Settings	-	SMTP Server	✓		101
			SMTP Port♦	✓		101
			SMTP Encryption	✓		101
	Authentication Settings	-	SMTP Authentication	✓		102
			Mode	✓		102
			ID	✓		102
			Password	✓		102
	Email Addresses	-	Destination 1	✓	✓	103
			Destination 2	✓	✓	103
			Destination 3	✓	✓	103
			Source Address	✓		103

Entry				Access privileges		Reference page
				A	U	
	Email Event Trigger	-	Outgoing Normal Call	✓	✓	104
			Incoming Normal Call	✓	✓	104
			Outgoing Priority Call	✓	✓	104
			Incoming Priority Call	✓	✓	104
			Outgoing Urgent Call	✓	✓	105
			Incoming Urgent Call	✓	✓	105
			Door Release Activated	✓	✓	105
			Call Failed	✓	✓	105
			Latch Reset	✓	✓	105
			Error	✓	✓	105
			Station Restarted	✓	✓	105
			Subject	✓	✓	140
	Periodic Log Transmission	-	Periodic Log Transmission	✓	✓	106
			Periodic Log Transmit Time	✓	✓	106
			Periodic Log Transmit Interval	✓	✓	106
			Periodic Log Transmission Subject	✓	✓	106
	Send Test Email	-	-	✓	✓	107
CGI	CGI Functionality	-	-	✓		108
SIF	SIF Functionality	-	-	✓		109
	SIP URI Format	-	-	✓		109
	SIF Settings	-	Program Type	✓		110
			IPv4	✓		110
			IPv6	✓		110
			Destination Port	✓		110
			SSL	✓		110
			Connection	✓		110

51

Entry				Access privileges		Reference page
				A	U	
	Transmission Trigger	-	Begin Outgoing Call	✓		111
			Begin Communication (Source)	✓		111
			Door Release Indication	✓		111
			End Communication	✓		111
			Change contact	✓		111
			Unit error	✓		112
			Periodical Transmission	✓		112
			Initialization Notice	✓		112
			End Outgoing Call	✓		112
			Begin Incoming Call	✓		112
			End Incoming Call	✓		112
			Latch Reset	✓		112
			Change Call Destination	✓		113
			Call Failure	✓		113
			Begin Incoming Page	✓		113
			End Incoming Page	✓		113
			Begin Monitored	✓		113
			End Monitored	✓		113
			Begin Communication (Destination)	✓		113
			SIP Registration Failure	✓		114
	Periodical Transmission Interval	-	Periodical Transmission Interval♦	✓		115
	SIF File Management	-	SIF Communication Settings (sif.ini)	✓		115
			SIF Parameter Settings (sif_conf.ini)	✓		115
Communication Audio Messages	Start Communication	-	-	✓	✓	116
	Code Received	-	Code	✓	✓	117
			Message	✓	✓	117
Chime	Weekly Schedule	-	Start Time	✓	✓	118
			Chime	✓	✓	119
	Daily Schedule	-	Start Time	✓	✓	120
			Chime	✓	✓	121

Entry				Access privileges		Reference page
				A	U	
CSR	-	-	Country	✓		122
			State/County/Region	✓		122
			City/Locality	✓		122
			Organization	✓		122
			Organizational Unit	✓		122
			Common Name	✓		123
SSL Certificate	-	-	-	✓		124
IEEE 802.1X			IEEE 802.1X	✓		125
			EAP	✓		125
			EAP User Name	✓		125
			EAP Password	✓		125
			Certificate Authority	✓		126
			Client Certificate	✓		126
			Client Private Key	✓		126
Station Settings						
Volume / Tone	Volume	-	Handset Transmit	✓	✓	127
			Handset Receive	✓	✓	127
			Hands-free Transmit	✓	✓	127
			Hands-free Receive	✓	✓	127
			External Output	✓	✓	128
			VoIP Phone Volume Adjustment	✓	✓	128
			Ringtone	✓	✓	128
	Tone	-	Communication Timeout Notification	✓	✓	128
			Communication End Pretone	✓	✓	129
			Auto Answer Tone	✓	✓	129
			Key Received	✓	✓	130
			Error	✓	✓	130
			Audio Output (for Door)	✓		130
Communication	-	-	Talk Timeout [sec]♦	✓	✓	131
			Communication Start Tone	✓	✓	131
Monitor	-	-	Prevent Being Monitored	✓		132
			Monitored Notification Tone	✓	✓	132
			Monitored LED Notification	✓	✓	132

53

Entry				Access privileges		Reference page
				A	U	
Bit Rate [kbps] [H.264/AVC]	-	-	Contact Assignment	✓	✓	133
			Authentication Key	✓	✓	133
			Door Release by IX-RS	✓		134
Maintenance						
Firmware Update	-	-	-	✓		135
Initialization	-	-	Initialization	✓		136
			Initialize User Settings	✓	✓	136
Settings File Backup	-	-	Download Settings File	✓		137
			Restore Settings File	✓		137
System Log	-	-	Download	✓		139
syslog	-	-	IPv4 Address	✓		140
			IPv6 Address	✓		140
			Port♦	✓		140

Configuring the Station

> **❗ Important**
>
> • The symbols indicate the following:
>   ♦: Be sure to input the settings. Upon use, leave the unnecessary items at their default values.
>   ♣: Indicates that IX Support Tool has uploaded the data. If the entry is altered through a web browser, the data will not be applied to IX Support Tool.

1. Station Information

1.1 Identification

■Number♦♣

Description	Set an unique number for each station. The station number will be displayed on the screen of the destination during call, page, etc.
Settings	3 - 5 digits
Default values	—

■Name

Description	Set the station name. The station name will be displayed on the screen of the destination during call, page, etc.
Settings	1 - 24 alphanumeric characters
Default values	—

■Location

Description	Select the Location of the station. The location will be displayed on the screen of the destination during call, page, etc.
Settings	1 - 24 alphanumeric characters
Default values	—

1.2   ID and Password

●ID and Password

Administrator ID♦	admin	1-32 alphanumeric characters(*1)
Administrator Password♦	•••••	1-32 alphanumeric characters(*1)
User ID♦	user	1-32 alphanumeric characters(*2)
User Password♦	••••	1-32 alphanumeric characters(*2)
RTSP ID♦	aiphone	1-32 alphanumeric characters(*4)
RTSP Password♦	••••••	1-32 alphanumeric characters(*4)

(*1)Administrator ID or Password is default.
(*2)User ID or Password is default.
(*4)RTSP ID or Password is default.
For security purposes, it is recommend to modify the default ID and Password.

■ Administrator ID♦♣

Description	Set the ID of the administrator account for logging in to the Web System Setting Server.
Settings	1 - 32 alphanumeric characters
Default values	admin

■ Administrator Password♦♣

Description	Set the Password of the administrator account for logging in to the Web System Setting Server.
Settings	1 - 32 alphanumeric characters
Default values	admin

■ User ID♦

Description	Set the ID of the user account for logging in to the Web System Setting Server.
Settings	1 - 32 alphanumeric characters
Default values	user

■ User Password♦

Description	Set the Password of the user account for logging in to the Web System Setting Server.
Settings	1 - 32 alphanumeric characters
Default values	user

■ RTSP ID♦

Description	Set the ID to access this station from 3rd party products using RTSP.
Settings	1 - 32 alphanumeric characters
Default values	aiphone

■ RTSP Password ♦

Description	Set the Password to access this station from 3rd party products using RTSP.
Settings	1 - 32 alphanumeric characters
Default values	aiphone

> 💡 **Note**
>
> • "Administrator ID" and "User ID" cannot be identical.
>
> • The RTSP port number is "554."
>
> • "Administrator Password," "User Password," and "RTSP Password " are displayed as "●●●●●" on the screen.

1.3 Language

●Language

If change "Language", Email and System Log language will be changed. Station and Web browser language are not changed.
Language   English ∨

■ Language

Description	Configure the language for the following on the station. • Language used for various settings (including the station name) • Set the email and System Log language.
Settings	• Japanese • English • French • Spanish • Dutch • Traditional Chinese • Simplified Chinese
Default values	English

💡 **Note**

• When logging in to web configuration with the station in its default state at the first time, the language will be set to the same language that was selected when logging in.

1.4 Time

1.4.1 Time Zone

■ Select time zone

Description	Set the Time Zone.
Settings	Select from 99 regions
Default values	(GMT-08:00) Pacific Standard Time (US), Tijuana

> 💡 **Note**
>
> • When logging in to web configuration with the station in its default state at the first time, this will be set as follows depending on the language selected when logging in.
>
> – Japanese: (GMT+09:00) Osaka, Sapporo, Tokyo
>
> – English: (GMT-08:00) Pacific Standard Time (US), Tijuana
>
> – French: (GMT+01:00) Brussels, Madrid, Copenhagen, Paris
>
> – Spanish: (GMT+01:00) Brussels, Madrid, Copenhagen, Paris
>
> – Dutch: (GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm
>
> – Traditional Chinese: (GMT+08:00) Taipei
>
> – Simplified Chinese: (GMT+08:00) Beijing, Chongqing, Hong Kong, Urumqi

---

1.4.2 Daylight Savings Time

■ Enable automatic daylight savings time

Description	The daylight saving time is set automatically according by region selected in "Select time zone (→page 60)".
Settings	• Yes • No
Default values	No

1.4.3   Date and Time

■Set date and time

Description	Set the current time for the system. This is a required setting.
Settings	2017/1/1/00:00:00 - 2037/12/31/23:59:59 **[Sync with PC]**: Synchronized with the current time setting of the PC.
Default values	The time from 2018/1/1/ 00:00:00 with the time difference set in "Select time zone (→page 60)" applied
Remarks	The time cannot be updated by pressing **[Update]**. Press **[Apply Time to Station]** to update.

1.5 Expanded System

● **Expanded System**

○ Enable ⦿ Disable

Description	Not used.

2. Network Settings

2.1 IP Address

> **❗ Important**
>
> • When a setting related to the IP Address is updated, the station will restart. In some cases, it may take up to 10 minutes for the station to start up.

2.1.1 Static / DHCP

Description	Select Static or DHCP for the selected IP version in "IP Version".
Settings	• For IPv4: – Static – DHCP • For IPv6: – Static – Stateless – DHCPv6
Default values	IPv4 • Static

> **❗ Important**
>
> • Both IPv4 and IPv6 cannot be used in the same system.
>
> • When selecting "DHCP" for IPv4, configure the system so that the DHCP server assigns a Static IP Address to each station.
>
> • When selecting "Stateless" for IPv6, do not change the prefix of the device that can transmit RA.
>
> • When selecting "DHCPv6" for IPv6, configure the system so that the DHCP server assigns a Static IP Address to each station. The DUID of the station is "00030001 + MAC address."
>
> • When setting up a product from another manufacturer, such as a DHCP server, refer to its manual.

2.1.2 IPv4 Address

> **❗ Important**
>
> • If "Static / DHCP (→page 63)" was set to "DHCP," settings will not be applied to the station if "IP Address," "Subnet Mask," and "Default Gateway" are entered.

■ IP Address♦♣

Description	Set the IP address. The IP Address should be unique.
Settings	1.0.0.1 - 223.255.255.254
Default values	—

■ Subnet Mask♦

Description	Set the Subnet Mask.
Settings	128.0.0.0 - 255.255.255.255
Default values	—

■ Default Gateway

Description	Set the Default Gateway.
Settings	1.0.0.1 - 223.255.255.254
Default values	—

2.1.3 IPv6 Address

> **❗ Important**
>
> • If "Static / DHCP (→page 63)" is set to "Stateless" or "DHCPv6," settings will not be applied to the station even if the "IP Address" and "Default Gateway" settings are input.

■ IP Address♦♣

Description	Set the IP address. The IP Address should be unique.
Settings	2000::0 - 3FFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or FD00::0 - FDFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
Default values	—

■ Default Gateway

Description	Set the Default Gateway.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
Default values	—

2.2 DNS

When IPv4 or IPv6 is configured as Hostname for each entry, a DNS server must be configured for name resolution.

●DNS		
Primary Server	IPv4 [ ] . [ ] . [ ] . [ ]	1.0.0.1-223.255.255.254
	IPv6 [ ]	::FF:0-FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
Secondary Server	IPv4 [ ] . [ ] . [ ] . [ ]	1.0.0.1-223.255.255.254
	IPv6 [ ]	::FF:0-FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF

2.2.1 Primary Server

■ IPv4

Description	Set the IPv4 address for DNS Primary Server.
Settings	1.0.0.1 - 223.255.255.254
Default values	—

■ IPv6

Description	Set the IPv6 address for DNS Primary Server.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
Default values	—

2.2.2 Secondary Server

■ IPv4

Description	Set the IPv4 address for DNS Secondary Server.
Settings	1.0.0.1 - 223.255.255.254
Default values	—

■ IPv6

Description	Set the IPv6 address for DNS Secondary Server.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
Default values	—

2.3   SIP

2.3.1   SIP Connections

■ SIP Signaling Port♦

Description	Set the Port Number for SIP. Set the same port number for each station to communicate.
Settings	1 - 65535
Default values	5060

■ User Agent

Description	Set the User Agent.
Settings	1 - 36 alphanumeric characters
Default values	—

2.3.2   SIP Server

Configure integration with 3rd party SIP based PBX systems. Please contact your local Aiphone distribution for more information.

2.3.2.1   Primary Server

■ ID

Description	Configure the user ID for digest authentication with SIP server.
Settings	1 - 24 alphanumeric characters
Default values	—

66

■Password

Description	Configure the user password for digest authentication with SIP server.
Settings	1 - 24 alphanumeric characters
Default values	—

> 💡 **Note**
>
> • The "Password" is displayed as "●●●●●" in the Settings window.

■IPv4 Address

Description	Configure the IPv4 address of the SIP server.
Settings	1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)
Default values	—

■IPv6 Address

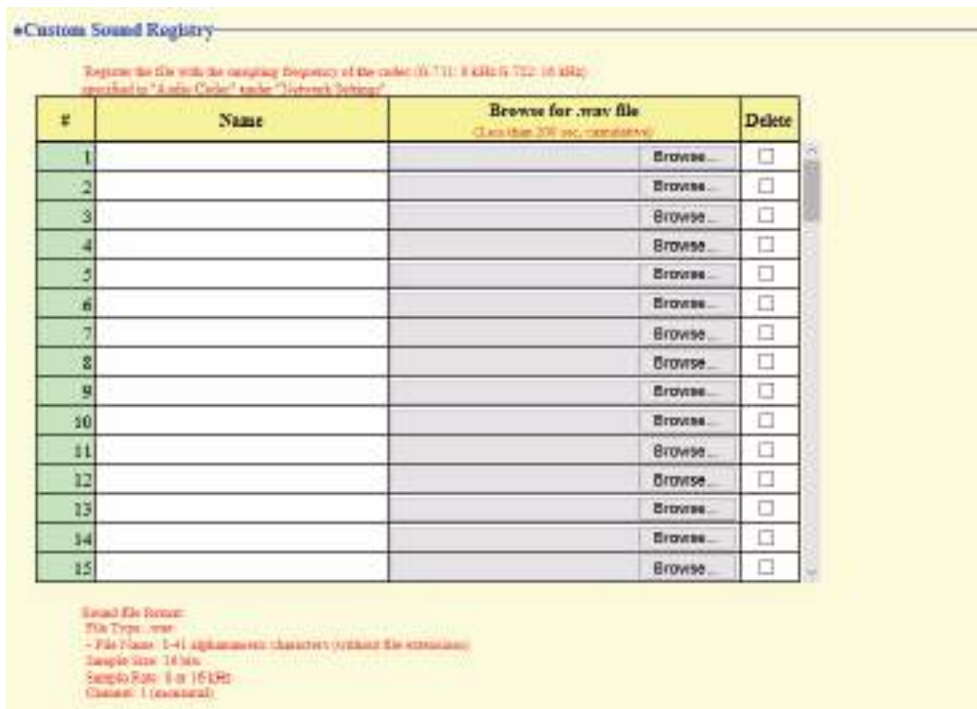| Description	Configure the IPv6 address of the SIP server.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname (1 - 64 alphanumeric characters)
Default values	—

■Port♦

Description	Configure the Port Number to communicate with the SIP server.
Settings	1 - 65535
Default values	5060

2.3.2.2 Secondary Server

■ID

Description	Configure the user ID for digest authentication with SIP server.
Settings	1 - 24 alphanumeric characters
Default values	—

■Password

Description	Configure the user password for digest authentication with SIP server.
Settings	1 - 24 alphanumeric characters
Default values	—

> 💡 **Note**
>
> • The "Password" is displayed as "●●●●●" in the Settings window.

■IPv4 Address

Description	Configure the IPv4 address of the SIP server.
Settings	1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)
Default values	—

■IPv6 Address

Description	Set the IPv6 address of the SIP server.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname (1 - 64 alphanumeric characters)
Default values	—

■Port♦

Description	Set the Port Number to communicate with the SIP server.
Settings	1 - 65535
Default values	5060

2.3.2.3 Tertiary Server

■ID

Description	Configure the user ID for digest authentication with SIP server.
Settings	1 - 24 alphanumeric characters
Default values	—

■Password

Description	Configure the user password for digest authentication with SIP server.
Settings	1 - 24 alphanumeric characters
Default values	—

> 💡 **Note**
>
> • The "Password" is displayed as "●●●●●" in the Settings window.

■IPv4 Address

Description	Set the IPv4 address of the SIP server.
Settings	1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)
Default values	—

■IPv6 Address

Description	Set the IPv6 address of the SIP server.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname (1 - 64 alphanumeric characters)
Default values	—

■Port♦

Description	Set the Port Number to communicate with the SIP server.
Settings	1 - 65535
Default values	5060

2.3.3　Miscellaneous

■Register Transmission Interval [sec]♦

Description	Configure the Transmission Interval to send Register to the SIP server.
Settings	10-14400 sec
Default values	3600 sec

■DTMF digit interval timeout [sec]♦

Description	Set the timer to transmit re-INVITE while calling and monitoring.
Settings	1 - 10 sec
Default values	5 sec

> ⓘ **Important**
>
> • Configure the IP-PBX and VoIP Phone DTMF with outbound.

■Call health check timer♦

Description	Set the timer to transmit re-INVITE while calling and monitoring.
Settings	• 80 - 3600 sec: Select to set between 80-3600 sec (by 1 sec). • Do not transmit re-INVITE: Do not detect communication errors.
Default values	90 sec.

2.4   Audio

2.4.1   Audio setting

■Audio Codec

Description	Select the Audio Codec.
Settings	• G.711 (μ-law) • G.711 (A-law) • G.722
Default values	G.711 (μ-law)

> **!** **Important**
>
> • When changing from "G.711" to "G.722" or from "G.722" to "G.711," the station will restart. In some cases, it may take around 10 minutes to restart the station.
>
> • Stations with different audio codecs (G.711 and G.722) selected cannot ring, call, monitor, or page each other.
>
> • When changing "G.711" to "G.722" and "G.722" to "G.711," change the custom tones used for the following subcategories to audio files with appropriate audio sample rates. "Custom Sound Registry (→page 77)"
>
>   – "Call Origination" - "Call Button" - "Ringback Tone (→page 82)"
>   – "Call Origination" - "Option Input 1" - "Ringback Tone (→page 82)"
>   – "Call Origination" - "Busy Tone (→page 87)"
>   – "Call Origination" - "Error Tone (Call Failed) (→page 87)"
>   – "Incoming Call" - "Ringtone (→page 89)"
>   – "Relay Output" - "Sound Settings (→page 96)"
>   – "Paging Settings" - "Paging Pretone (→page 100)"
>   – "Communication Audio Messages" - "Start Communication (→page 116)"
>   – "Communication Audio Messages" - "Code Received" - "Message (→page 117)"
>   – "Chime" - "Weekly Schedule" - "Chime (→page 119)"
>   – "Chime" - "Daily Schedule" - "Chime (→page 121)"
>   – "Volume / Tone" - "Communication Timeout Notification (→page 128)"
>   – "Volume / Tone" - "Communication End Pretone (→page 129)"
>   – "Volume / Tone" - "Auto Answer Tone (→page 129)"
>   – "Volume / Tone" - "Key Received (→page 130)"
>   – "Volume / Tone" - "Error (→page 130)"
>   – "Communication" - "Communication Start Tone (→page 131)"
>   – "Monitor" - "Monitored Notification Tone (→page 132)"

■ Audio RTP Transmission Interval [msec]

Description	Set the Audio RTP Transmission Interval. This setting is ignored when transmitting to multiple stations (paging, etc.)
Settings	20, 40, 60, 80, 100 msec
Default values	20msec

■ RTP Idle Detection Time [sec]♦

Description	Set the time to detect RTP idle state for Audio. When Audio RTP is not received during communication, monitoring, or receiving a page, connection will be disconnected after the set time.
Settings	10-180 sec (by 1 sec)
Default values	10sec

71

■Audio 1 RTP Start Port♦

Description	Set the range of port numbers to transmit and receive Audio RTP, such as communication between IX systems. Set the difference to 210 or greater in the range of (Audio 1 RTP Start Port) - (Audio 1 RTP End Port).
Settings	1 - 65534
Default values	20000

■Audio 1 RTP End Port♦

Description	Set the range of port numbers to transmit and receive Audio RTP, such as communication between IX systems. Set the difference to 210 or greater in the range of (Audio 1 RTP Start Port) - (Audio 1 RTP End Port).
Settings	1 - 65535
Default values	21000

■Audio 2 RTP Start Port♦

Description	Set the range of port numbers to transmit and receive Audio RTP using ONVIF. Set the difference to 10 or greater in the range of (Audio 2 RTP Start Port) - (Audio 2 RTP End Port).
Settings	1 - 65534
Default values	22000

■Audio 2 RTP End Port♦

Description	Set the range of port numbers to transmit and receive Audio RTP using ONVIF. Set the difference to 10 or greater in the range of (Audio 2 RTP Start Port) - (Audio 2 RTP End Port).
Settings	1 - 65535
Default values	23000

2.4.2　Audio Buffer

■ Packets Buffered at Audio Start

Description	Set the number of packets to accumulate before playing audio.
Settings	0 - 4
Default values	1

■ Maximum Packets Buffered

Description	Set the maximum number of packets that can be accumulated. If a packet is received beyond the set value, it is removed from the oldest packet. It should be greater than the number of ""Packets Buffered at Audio Start (→page 73)"".
Settings	2 - 10
Default values	3

2.5 Packet Priority

> **ⓘ Important**
>
> • When a VLAN-related setting is updated, the station will restart. In some cases, it may take around 10 minutes for the station to restart.

■ TOS Value (Audio)♦

Description	Set the Packet Priority (TOS Value) for Audio.
Settings	0x00 - 0xFF
Default values	0x00

■ TOS Value (SIP)♦

Description	Set the Packet Priority (TOS Value) for SIP.
Settings	0x00 - 0xFF
Default values	0x00

■ VLAN Setting

Description	Select Enable / Disable for tagged VLAN.
Settings	• Enable • Disable
Default values	Disable

> **ⓘ Important**
>
> • When "VLAN Setting (→page 74)" is set to "Enable," ensure that the switches, PCs, and stations are all configured for VLAN operation.

■ VLAN ID♦

Description	Set the VLAN ID.
Settings	1 - 4094
Default values	1

■ VLAN Priority

Description	Set the VLAN priority.
Settings	0 (low) to 7 (high)
Default values	0

74

2.6 NTP

2.6.1 Enable NTP

Description	Select Yes / No Use to synchronize the time with an NTP server.
Settings	• Yes • No Use
Default values	No Use

2.6.2 Synchronization Interval [hour]♦

Description	Configure the interval to synchronize with the NTP server.
Settings	1-255 hours (by one hour)
Default values	24hour

2.6.3 Primary Server

2.6.3.1 Address

■ IPv4

Description	Set the IPv4 Address for NTP Primary Server. Go to "DNS (→page 65)" to set hostname.
Settings	1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)
Default values	—

■ IPv6

Description	Set the IPv6 Address for NTP Primary Server. Go to "DNS (→page 65)" to set hostname.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname (1 - 64 alphanumeric characters)
Default values	—

2.6.3.2 Port♦

Description	Set the port number for NTP.
Settings	1 - 65535
Default values	123

2.6.4 Secondary Server

2.6.4.1 Address

■ IPv4

Description	Set the IPv4 address for NTP Secondary Server. Go to "DNS (→page 65)" to set hostname.
Settings	1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)
Default values	—

■ IPv6

Description	Set the IPv6 address for NTP Secondary Server. Go to "DNS (→page 65)" to set hostname.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname (1 - 64 alphanumeric characters)
Default values	—

2.6.4.2 Port♦

Description	Set the port number for NTP.
Settings	1 - 65535
Default values	123

3. System Information

3.1 Custom Sound Registry

Register a maximum of 100 audio files to be used for call acknowledged tones. (total length should not exceed approximately 200 seconds.)

■ Custom Sound Registry

Description	Register the audio files to be used for ringtones, etc.
Settings	• Name: This is the file name of the registered file. The name will be shown as the setting value when configuring the calling tone and other settings. • File Name: 1-41 alphanumeric characters (without file extensions). • Browse for .wav file: Total of 100 files, and total length within approximately 200 seconds. • Sound file format: 　– File Type: .wav 　– Sample Size: 16 bits 　– Sample Rate: 8 or 16 kHz 　　8 kHz (when "Audio Codec (→page 70)" is "G.711 (μ-Law)" or "G.711 (A-Law)") 　　16 kHz (when "Audio Codec (→page 70)" is "G.722") 　– Channel 1 (monaural)
Default values	—

How to register a custom sound

1. Click **[Browse]** at the end of the row for the station in which the file is to be registered.

2. Select the audio file to register, and click **[Open]**.

3. When done, click **[Update]**.

> 💡 **Note**
>
> • When using this as a calling tone or ringtone, add a period of silence after the audio source.
>
> • Sample files of custom tones are provided on our website (https://www.aiphone.net/support/) for download and use as audio sources.

How to delete a custom sound

1. Check the **[Delete]** box of the audio file to delete.

2. Click **[Update]**.

4. Call Settings

4.1 Station Information

| Call Button Function | Call | ∨ |

"Cancel Call, End Communication" disabled when using Option Input call.

■ Call Button Function

Description	Select the Call Button Function when call button is pressed.
Settings	• Call: Outgoing call • Call, Cancel Call, End Communication: Outgoing call, Cancel outgoing call, End Communication • Call, Answer Call, End Communication: Outgoing call, Answer call or page, End communication
Default values	Call

> 💡 **Note**
>
> • Contact input calls from this station and calls switched from a contact input call cannot be ended by pressing the Call/TALK button.

4.2 Called Stations (for Door)♣

Configure the group to call when the handset is lifted, the Call/Talk button is pressed, or a contact input call is made.
Up to 20 stations can be configured in a single group, and up to 10 groups can be configured.
Any station other than IX-DA, IX-DF(-*), IX-BA, IX-SS(-*), or IXW-MA can be registered as the call recipient.

> ❗ **Important**
>
> • An IX-RS, IX-DA, IX-DF(-*) or IX-BA, IX-SS(-*) must be registered under Called Stations (Door/Sub Stations) to use Door Release while in communication with IX-DA, IX-DF(-*) or IX-BA, IX-SS(-*). An IX-RS cannot place a call to IX-DA, IX-DF(-*) or IX-BA, IX-SS(-*) even IX-DA, IX-DF(-*) or IX-BA, IX-SS(-*) is under Called Stations (Door/Sub Stations.)
>
> • Do not register the same station more than once.
>
> • Only one VoIP Phone can be registered to each group.

How to configure Called Stations (for Door)

1. Select the group number to configure from "Option Input #."
   • Settings for the selected group will be displayed.

2. Configure the stations to register to the group.

3. Click **[Update]**.

■Station Number

Description	Set the station number.
Settings	3-32 digits.
Default values	—

■IPv4 Address

Description	Set the IPv4 address of the station. Go to "DNS (→page 65)" to set hostname.
Settings	1.0.0.1-233.255.255.254 or hostname(1-64 alphanumeric characters)
Default values	—

■IPv6 Address

Description	Set the IPv6 address of the station. Go to "DNS (→page 65)" to set hostname.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname (1 - 64 alphanumeric characters)
Default values	—

■Station Type:

Description	Select the station type.
Settings	• IX-MV • IX-MV7-* • IX-RS-* • IX-DV, IX-DVF(-*) • IX-SS-2G • IX-SSA(-*) • VoIP Phone • IX-EA, IX-EAU: Not used. • IX-FA: Not used.
Default values	—

4.3   Call Origination

Click **[Call Origination]**.
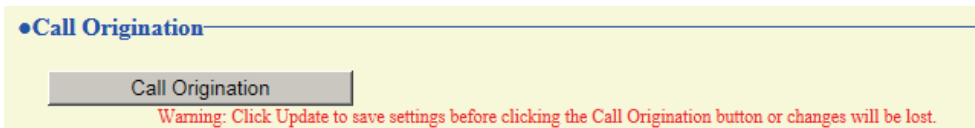
Or, click "Call Origination" in the setting menu to switch to the Call Origination screen.
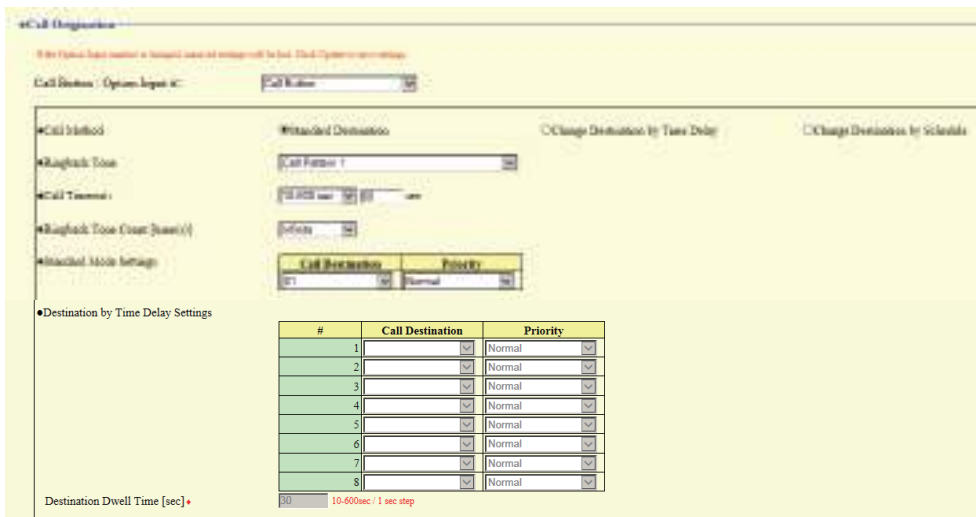
4.3.1   Call Origination Advanced Settings

How to configure advanced outgoing call settings

1.   Select "Call Button" or "Option Input 1" from "Call Button / Option Input #."
  • Settings for the selected outgoing call method are displayed.

2.   Configure the setting of each item.

3.   Click **[Update]**.

■Call Method

Description	Select the Call Method to change call destinations automatically by time delay or schedule. For details on how to configure the settings, refer to "Standard Mode Settings (→page 82)".
Settings	• Standard Destination: Do not change call destination automatically. • Change Destination by Time Delay: Change destination group from "Call Destination (→page 82)" after "Destination Dwell Time [sec] (→page 83)". Up to 8 groups can be used. • Change Destination by Schedule: Change destination group by "Schedule Settings (→page 84)".
Default values	Standard Destination

■ Ringback Tone

Description	Select the sound to be played by the station when placing a call.
Settings	• None • Call Pattern 1 • Call Pattern 2 • Call Pattern 3 • Call Pattern 4 • Call Pattern 5 • Call Pattern 6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Call Button: Call Pattern 1 Option Input 1: Call Pattern 2

■ Call Timeout♦

Description	Configure the Call Timeout for outgoing call.
Settings	• 10 - 600 sec: Select to set between 10-600 sec (by 1 sec) • Infinite: Keep calling until call is answered
Default values	60sec

> 💡 **Note**
>
> • When calling a VoIP phone, this will be the shorter time of the time set for "Call Timeout" and the call duration configured on the IP-PBX.

■ Ringback Tone Count [time(s)]

Description	Set the play count of ringback tone for outgoing call.
Settings	• 1 - 20 times • Infinite: The ringback tone continues to play for the amount of time set in "Call Timeout♦ (→page 82)".
Default values	Infinite

4.3.1.1 Standard Mode Settings

Configure the call destination group number and call priority when "Call Method (→page 81)" is set to "Standard Destination".

■ Call Destination

Description	Set the call destination group number.
Settings	01 - 10
Default values	Call Button: 01 Option Input 1: -

■Priority

Description	Set the call priority.
Settings	• Normal • Priority • Urgent
Default values	Normal

4.3.1.2   Destination by Time Delay Settings

Configure the call group number to switchover, switching time, and priority when "Call Method (→page 81)" is set to "Change Destination by Time Delay." Up to eight groups can be configured. Groups will be switched in order at each configured switchover time.

■Call Destination

Description	Set the number of the call group to switchover.
Settings	01 - 10
Default values	—

■Priority

Description	Set the priority of calls.
Settings	• Normal • Priority • Urgent
Default values	Normal

■Destination Dwell Time [sec]♦

Description	Configure the delay time to change the call destination.
Settings	10 - 600 sec (by 1 sec)
Default values	30 sec

■Schedule Settings

Configure when "Call Method (→page 81)" is set to "Change Destination by Schedule."

How to configure the Weekly Schedule

Configure the switchover time, call group number, and call priority for the outgoing call destination, each day from Sunday to Saturday. 12 schedules can be set for each day.
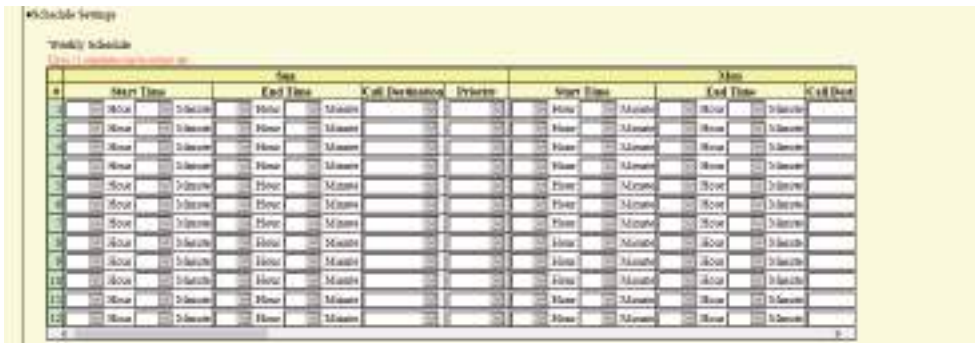
1. Configure the "Start Time," "End Time," "Call Destination," and "Priority" for each day of the week.

2. Click **[Update]**.

■Start Time

Description	Configure the time to start changing the call destination.
Settings	00:00 - 23:59
Default values	—

■End Time

Description	Configure the time to stop changing the call destination. If this is set earlier than "Start Time (→page 84)", the end time will be for the following day.
Settings	00:00 - 23:59
Default values	—

■Call Destination

Description	Configure the call destination to change within the schedule.
Settings	01 - 10
Default values	—

■Priority

Description	Configure the priority of calls.
Settings	• Normal • Priority • Urgent
Default values	—

How to delete the Weekly Schedule

1. Return settings to their default values, and then click **[Update]**.

84

How to configure Daily Schedule

Configure the switchover time, call group number, and call priority for the outgoing call destination, in units of one day. A schedule one year from the set day can be configured. 12 schedules can be set for each day.
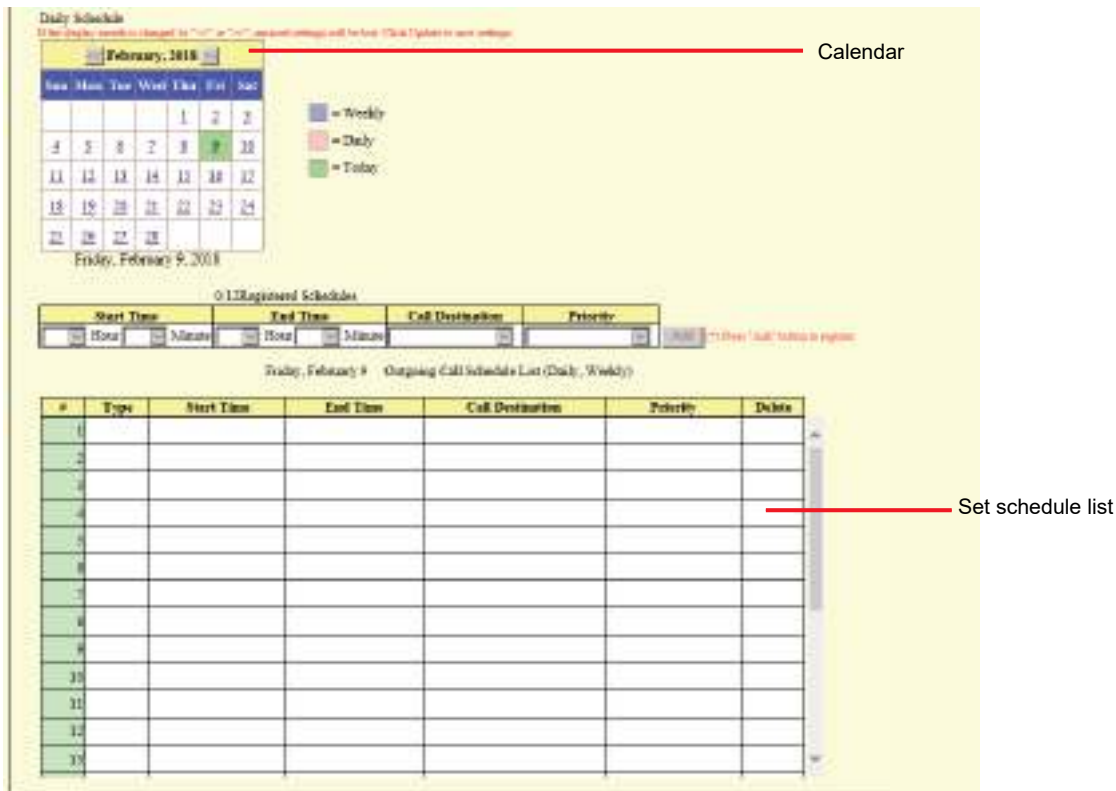
1. Select the day(s) to configure a schedule from "Calendar."

2. Configure "Start Time," "End Time," "Call Destination," and "Priority," and click **[Add]**.

3. Click **[Update]**.

■ Start Time

Description	Configure the time to start changing the call destination.
Settings	00:00 - 23:59
Default values	—

■ End Time

Description	Set the time to stop changing the call destination. If set earlier than "Start Time (→page 85)", the end time will be for the following day.
Settings	00:00 - 23:59
Default values	—

■ Call Destination

Description	Set the call destination to change within the schedule.
Settings	01 - 10
Default values	—

85

■Priority

Description	Set the priority of calls.
Settings	• Normal • Priority • Urgent
Default values	—

How to delete Daily Schedule

1. Select the day to delete a schedule from "Calendar."

2. Schedules for the selected day are displayed in the "Set schedule list."
   • If a weekly schedule is configured for the selected day of the week, it will also be shown.

3. Click **[Delete]** for the schedule to delete, and click **[Update]**.
   • Refer to to delete weekly schedules.

4.3.2 Tone Settings

■Busy Tone

Description	Select the sound to be played when call destination station is busy.
Settings	• None • Call Pattern 1 • Call Pattern 2 • Call Pattern 3 • Call Pattern 4 • Call Pattern 5 • Call Pattern 6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Busy Response Tone

■Error Tone (Call Failed)

Description	Select the sound to be played when outgoing call has failed.
Settings	• None • Call Pattern 1 • Call Pattern 2 • Call Pattern 3 • Call Pattern 4 • Call Pattern 5 • Call Pattern 6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Error

4.3.3　Call Restart Function

Call Restart Function

Call Restart Function	○Enable	⦿Disable
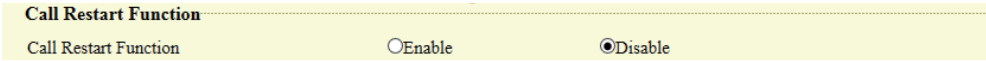
■Call Restart Function

Description	Select Enable / Disable for Call Restart Function. Call Restart Function: When the station is reset during an outgoing call, the outgoing call will be resumed automatically up to 2 times.
Settings	• Enable • Disable
Default values	Disable

4.4   Incoming Call

4.4.1   Call Answer Settings

■Auto Answer

Description	Select ON / OFF to automatically answer the individual call. Auto Answer: When receiving an individual call, answer automatically. When calls from VoIP phones and transferring a call, it must be answered manually.
Settings	• OFF: No Auto Answer. • ON: Auto Answer.
Default values	OFF

4.4.2   Ringtone

■Ringtone

Description	Select the ringtone to be played for incoming call.
Settings	• None • Call Pattern 1 • Call Pattern 2 • Call Pattern 3 • Call Pattern 4 • Call Pattern 5 • Call Pattern 6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Call Pattern 3

■Ringback Tone Count [time(s)]

Description	Set the play count of ringtone for incoming call.
Settings	• Infinite: Keep ringing until the call is answered or canceled. • 1 - 20 times
Default values	Infinite

4.4.3　VoIP Phone

■VoIP Phone Call Priority

Description	Select the call priority from VoIP Phone.
Settings	• Normal • Priority • Urgent
Default values	Normal

90

5. Option Input / Relay Output Settings

5.1 Option Input

5.1.1 Option Input Advanced Settings

■Name

Description	Set the Name of the Option Input.
Settings	1 - 24 alphanumeric characters
Default values	—

■Function

Description	Configure option input function.
Settings	• No Function • Call:Call to destination. Be sure to configure "Call Origination Advanced Settings (→page 81)" by setting "Call Button / Option Input #:" to "Option Input 1." • Answer Call / Page: Answer incoming call or page. • Relay Latch Reset: Reset latch relay output using the option input. "Relay Latch Reset" is selected and "Latch Output" is selected in "Relay Output" - "Function (→page 94)" . • API: Send CGI command set by "API 1 (→page 92)" "API 2 (→page 92)".
Default values	No Function

91

■Type

Description	Set the detection method of the contact input.
Settings	• Make • Break
Default values	Make

■Detection Time Range

Description	Select the Detection Time Range for Option Input.

Settings	• 0 (Immediate): Detect at input less than 200 msec.
	• 200 - 2000 [msec]: Select when setting a value from 200 to 2000 msec (by 100 msec).
	  Enter the time in "Detection Time♦."
	• 3 - 600 [sec]: Select when setting a value from 3 to 600 sec (by 1 sec).
	  Enter the time in "Detection Time♦."

Default values	0 (Immediate)

■API 1

Description	Enter the CGI command to send when "Function (→page 91)" is set to "API."
Settings	• URL: 1 - 128 half-width alphanumeric characters
Default values	—

■API 2

Description	Enter the CGI command to send when "API" is selected in "Function (→page 91)".
Settings	• URL: 1 - 128 half-width alphanumeric characters
Default values	—

5.2   Relay Output

Click **[Relay Output]**.
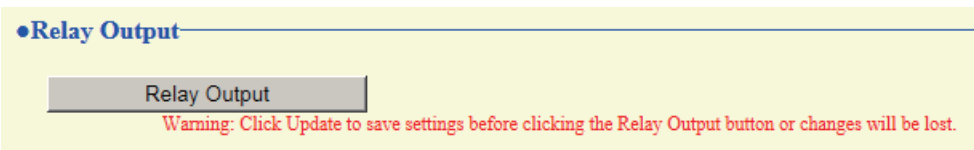
Or, click "Relay Output" in the Setting menu to switch to the Relay Output window.

ⓘ Important

• The four relay output methods are shown below. Redundant configuration is possible for each relay output. If multiple commands occur during a single relay output, the last command will take priority.

5.2.1 Relay Output Advanced Settings

■Name

Description	Set the name of the Relay Output.
Settings	1 - 24 alphanumeric characters
Default values	—

■Function

Description	Select the function of the Relay Output.
Settings	• No Function • Status Output: Relay Output during the status. The details setting can be set in "How to configure Status Output (→page 94)". • Door Release: Relay output when door release is activated or, entering the authentication key using keypad of the station or the VoIP Phone. Details are configured in "Output Time Range (→page 95)". • Latch Output: Latch relay output by event trigger. Continue to output until latch reset trigger input. Ignore set "Output Time Range (→page 95)". Configuration can be set in "How to configure Latch Output (→page 95)".
Default values	No Function

How to configure Status Output

If "Function (→page 94)" is set to "Status Output," select the operating state for when the relay output occurs. This can be selected for each operation priority (multiple selections allowed).

> **Note**
>
> • For "Incoming Page," relay output is performed even during message paging and external input paging.
>
> • For "Monitored," relay output is performed even during scan monitoring.

94

How to configure Latch Output

If "Function (→page 94)" is set to "Latch Output," select the station operating state for when the relay output occurs. This can be selected for each operation priority (multiple selections allowed).

Choose from two restoration methods for relay output.
- Option Input (default value): Reset Latch Output by the Option Input.
- End Communication: Reset Latch Output by ending communication or the option input.

All items are set to "Option Input" by default. To reset by Option Input, be sure to set "Option Input" - "Function (→page 91)" to "Relay Latch Reset."

■ Option Relay Control

Description	Select Enable / Disable for Option Relay Control when using the speed dial of IX-MV7-* to control the output. If set to "Enable," this can be controlled as optional relay. Be sure to configure "Option Relay Control Authentication Key (→page 99)". The output time will be the output time configured in the IX-MV7-* providing control.
Settings	• Enable • Disable
Default values	Disable

■ Output Time Range

Description	Select the Output Time Range for relay output if "Function (→page 94)" is set to "Door Release" or if the relay output is controlled via "CGI (→page 108)".

Settings	• 200 - 2000 [msec]: Select when configuring a value from 200 to 2000 msec (by 200 msec).
	  Enter the time in "Output Time [msec / sec]♦."
	• 3 - 600 [sec]: Select when setting a value from 3 to 600 sec (by 1 sec).
	  Enter the time in "Output Time [msec / sec]♦."

Default values	400 msec

■ Door Release Authorization

Description	Set the Authentication Key when "Door Release" is selected in "Function (→page 94)" for releasing the door that is connected to the station. When the "Authentication Key" is confirmed, the relay output will be activated. This will also be the Authentication Key used to release the door using the keypad on IX-MV7-* or VoIP Phone.
Settings	1 - 20 digits
Default values	—

> **! Important**
>
> • Configure the Authentication Key using 1 to 4 digits to release when using the IX-MV.
>
> • Configure an Authentication Key that is different from the authentication key configured "Communication Audio Messages" and "Option Relay Control Authentication Key." If the setting value is the same, multiple functions might operate.

> **💡 Note**
>
> • The "Authentication Key" is displayed as "●●●●●" in the Settings window.

■ Sound Settings

Description	Configure the sound for the output terminal. • Door Release: Select the Door Release sounds to be played. • Relay Control (start): Select the sound to be played when Option Relay is activated. • Relay Control (end): Select the sound to be played when Option Relay is deactivated.
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Door Release: Operation Sound Relay Control (start): None Relay Control (end): None

5.2.1.1 Schedule Settings

How to configure the Weekly Schedule

Configure the time to perform relay output for each day of the week, from Sunday to Saturday. 12 schedules can be set for each day.
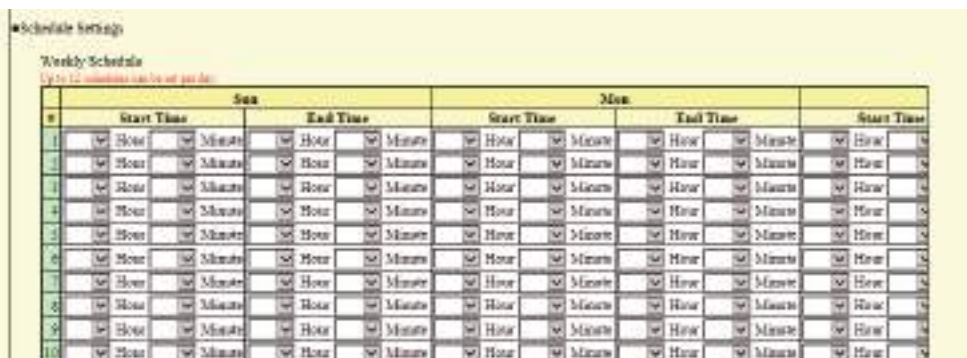
1. Configure the "Start Time" and "End Time" for each day of the week.

2. Click **[Update]**.

■ Start Time

Description	Set the time to start the relay output.
Settings	00:00 - 23:59
Default values	-

■ End Time

Description	Set the time to end the relay output. If set earlier than "Start Time (→page 97)", the end time will be the time the following day.
Settings	00:00 - 23:59
Default values	-

How to delete the Weekly Schedule

1. Return settings to their default values, and click **[Update]**.

How to configure Daily Schedule

Configure the time at which relay output will be performed, in units of one day. A schedule one year from the set day can be configured. 12 schedules can be set for each day.
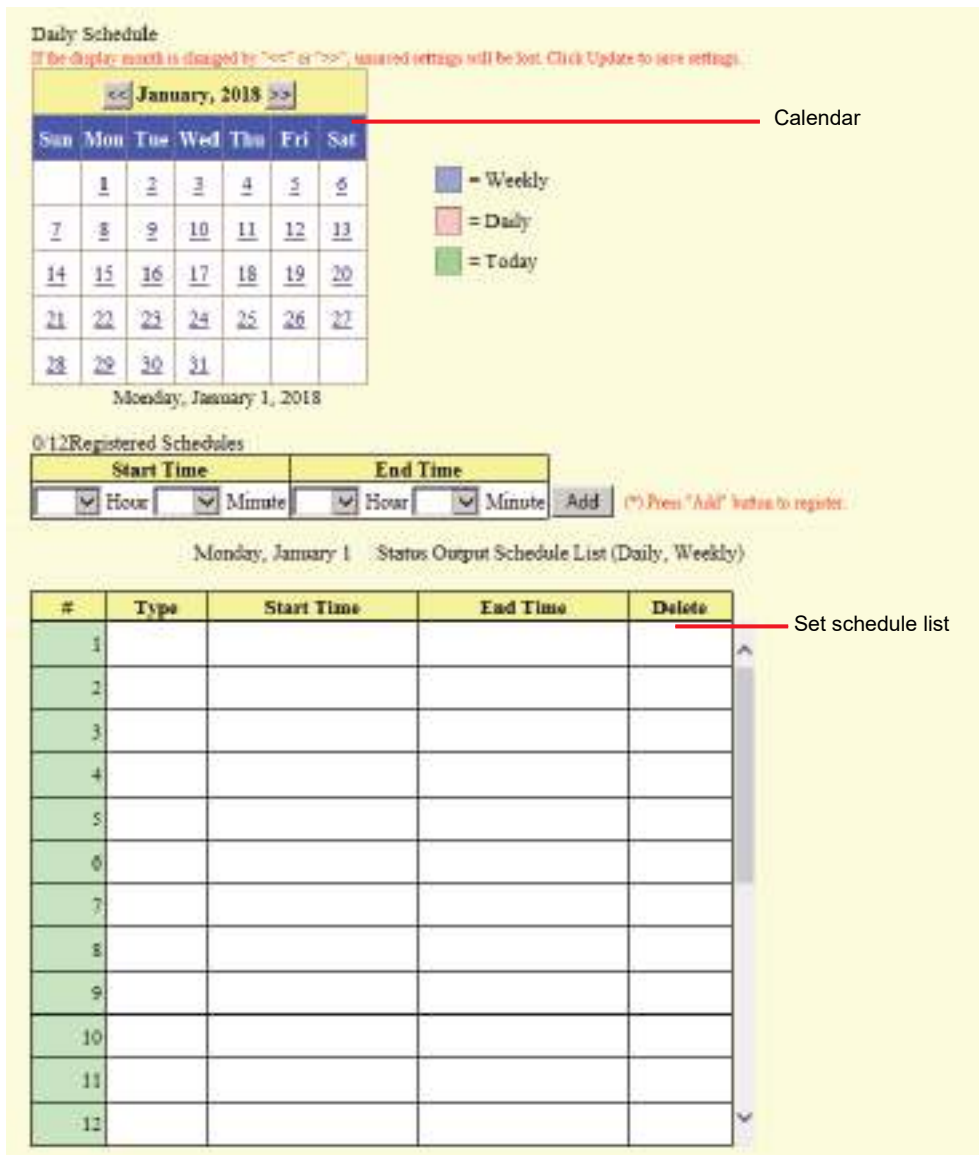
1. Select the day to configure a schedule from "Calendar."

2. Configure the "Start Time" and "End Time," and click **[Add]**.

3. Click **[Update]**.

■ Start Time

Description	Set the time to start the relay output.
Settings	00:00 - 23:59
Default values	-

98

■End Time

Description	Set the time to end the relay output. If set earlier than "Start Time (→page 98)", the end time will be the time the following day.
Settings	00:00 - 23:59
Default values	-

How to delete Daily Schedule

1. Select the day to delete a schedule from "Calendar."

2. Schedules for the selected day are displayed in the "Set schedule list."
   • If a weekly schedule is configured for the selected day of the week, it will also be shown.

3. Click **[Delete]** for the schedule to delete, and click **[Update]**.
   • Refer to "How to delete the Weekly Schedule (→page 97)" to delete weekly schedules.

5.2.2   Option Relay Control Authentication Key

Option Relay Control Authentication Key: [   ] 1-20 digits

Description	If "Option Relay Control (→page 95)" is set to "Enable" and "Speed Dials / Favorites" - "TLS" is set to "Enable" on the requesting station, configure the key used to decrypt encrypted communication. If this matches the "Option Relay Control Key" of the station performing the operation, the Relay Output can be controlled.
Settings	1 - 20 digits
Default values	—

> 💡 **Note**
>
> • Only one Option Relay Control Authentication Key can be set for each station. It will be shared with multiple Relay Output.
>
> • The "Option Relay Control Authentication Key" is displayed as "●●●●●" in the Settings window.

6. Function Settings

6.1 Paging Settings

●Paging Settings

| Paging Pretone | Pre Tone 2 ▼ |

■Paging Pretone

Description	Select the Paging Pretone.
Settings	• None • Call Pattern 1 • Call Pattern 2 • Call Pattern 3 • Call Pattern 4 • Call Pattern 5 • Call Pattern 6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Pre Tone 2

> ❗ **Important**
>
> • Configure a tone with a shorter duration than the paging pretone on the paging origination station. Configuring a longer tone might prevent the station from receiving audio when paging begins.

100

6.2 Email

Configure this section when email notification of station operation is required.

6.2.1 Server Settings

■SMTP Server

Description	Set the SMTP server. Configure either the IP address or hostname.
Settings	1 - 255 alphanumeric characters
Default values	—

■SMTP Port♦

Description	Set the port number for SMTP.
Settings	1 - 65535
Default values	25

■SMTP Encryption

Description	Select the encryption type for SMTP.
Settings	• OFF • TLS • STARTTLS
Default values	OFF

6.2.2   Authentication Settings

■SMTP Authentication

Description	Select ON / OFF for SMTP Authentication.
Settings	• ON • OFF
Default values	OFF

■Mode

Description	Select the SMTP Authentication Mode.
Settings	• LOGIN • CRAM-MD5
Default values	LOGIN

■ID

Description	Set the ID for SMTP authentication.
Settings	1 - 64 alphanumeric characters
Default values	—

■Password

Description	Set the Password for SMTP authentication.
Settings	1 - 64 alphanumeric characters
Default values	—

💡 **Note**

• The "Password" will be displayed as "●●●●●" in the Settings screen.

6.2.3   Email Addresses

■ Destination 1

Description	Set the destination email address.
Settings	1 - 64 alphanumeric characters
Default values	—

■ Destination 2

Description	Set the destination email address.
Settings	1 - 64 alphanumeric characters
Default values	—

■ Destination 3

Description	Set the destination email address.
Settings	1 - 64 alphanumeric characters
Default values	—

■ Source Address

Description	Set the source email address.
Settings	1 - 64 alphanumeric characters
Default values	—

6.2.4 Email Event Trigger

Set the email event trigger which initiates the message sending process. Configure the email event trigger for each destination address.

■ Outgoing Normal Call

Description	Send email when an outgoing call is placed at "Normal" priority.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Incoming Normal Call

Description	Send email when an incoming call is received at "Normal" priority.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Outgoing Priority Call

Description	Send email when an outgoing call is placed at "Priority" priority.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Incoming Priority Call

Description	Send email when an incoming call is received at "Priority" priority.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Outgoing Urgent Call

Description	Send email when an outgoing call is placed at "Urgent" priority.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Incoming Urgent Call

Description	Send email when an incoming call is received at "Urgent" priority.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Door Release Activated

Description	Send email when Door Release is activated.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Call Failed

Description	Send email when outgoing call has failed.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Latch Reset

Description	Send email when reset latch relay output. ("Latch Output" is selected in "Relay Output" - "Function (→page 94)".)
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Error

Description	Send email when a communication error has occurred.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Station Restarted

Description	Send email when the station has reset.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Subject

Description	Set the Subject of email per Event Trigger. This will be used for all destination addresses.
Settings	1 - 64 alphanumeric characters
Default values	—

105

	Important

- "UTF-8" encoding is used for "Subject." Depending on the email client, the characters may appear incorrectly. To avoid this, set the encoding method to "UTF-8."

6.2.5 Periodic Log Transmission
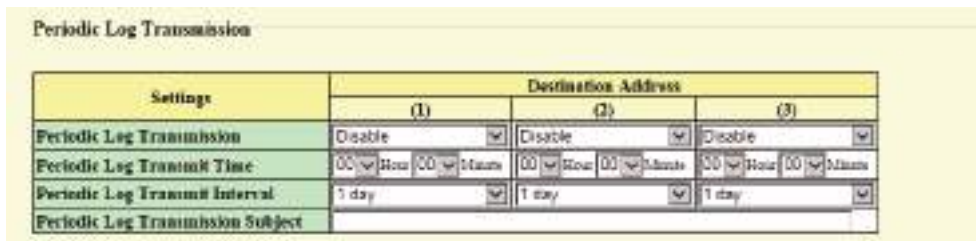
■ Periodic Log Transmission

Description	Select Enable / Disable for send station log periodically.
Settings	• Enable • Disable
Default values	Disable

■ Periodic Log Transmit Time

Description	Set the time to send the periodic log.
Settings	From 00:00 to 23:59
Default values	00:00

■ Periodic Log Transmit Interval

Description	Select the interval to send the periodic log.
Settings	1 day - 7 days
Default values	1 day

■ Periodic Log Transmission Subject

Description	Set the email subject for Periodic Log Transmission. This is used for all destination addresses.
Settings	1 - 64 alphanumeric characters
Default values	-

	Important

- "UTF-8" encoding is used for the "Periodic Log Transmission Subject." Depending on the email client, the characters may appear incorrectly. To avoid this, set the encoding method to "UTF-8."

6.2.6 Send Test Email

Send a test email to the destination address specified in "Email Addresses (→page 103)".

Send Test Email	Send

How to send a test email

1. Click **[Send]**.

2. The following email is sent to the set email address.
   Example of sending an email message:
   When sending a test email from the station (Station Number: 003, Station Name: Handset Sub Station 3, Location: 2F West).

From	△△△△@△△△△△.com
Date and time	15:22 2018/11/20
To CC	xxxx@xxxxx.com
Subject	003 Handset Sub Station 3 Test Email
Text	Test Email sent at "20181120 15:22:46." Station Number: [003] Station Name: [Handset Sub Station 3] Station Location: [2F West]

❗ Important

- "UTF-8" encoding is used for the "Subject." Depending on the email client, the characters may appear incorrectly. To avoid this, set the encoding method to "UTF-8."

6.3 CGI

For details of the CGI functionality, contact the local Aiphone representative.

6.3.1 CGI Functionality
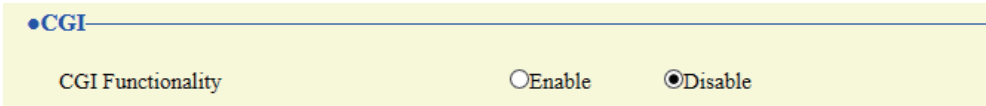
Description	Select Enable / Disable for CGI functionality.
Settings	• Enable • Disable
Default values	Disable

> ❗ **Important**
>
> • CGI controls may fail when multiple CGI commands are received.

6.4 SIF

For details of the SIF functionality, contact the local Aiphone representative.

6.4.1 SIF Functionality

Description	Select Enable / Disable for SIF functionality.
Settings	• Enable • Disable
Default values	Disable

6.4.2 SIP URI Format

Description	Select Enable / Disable when SIP URI Format is used for station destination. TERM ID cannot be used when SIP URI Format is selected.
Settings	• Enable • Disable
Default values	Disable

6.4.3 SIF Settings

Configure SIF recipient and communication settings. 16 SIF settings can be configured.

> 💡 **Note**
>
> • There are two ways to configure SIF communication: manually configuring settings or uploading a file in "SIF Communication Settings (sif.ini) (→page 115)". The latest setting will take priority.

■Program Type

Description	Set the Program Type for SIF.
Settings	0000 - 1111 If this is set to "0000," "0001," or "0011," the "Transmission Trigger (→page 111)" setting will be disabled.
Default values	—

■IPv4

Description	Set the SIF IPv4 destination address. Go to "DNS (→page 65)" to set Hostname.
Settings	1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)
Default values	—

■IPv6

Description	Set the SIF IPv6 destination address. Go to "DNS (→page 65)" to set Hostname.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname (1-64 alphanumeric characters)
Default values	—

■Destination Port

Description	Set the Port Number for destination.
Settings	1 - 65535
Default values	—

■SSL

Description	Select Enable / Disable for SSL.
Settings	• Enable • Disable
Default values	-

■Connection

Description	Select Socket / HTTP for connection.
Settings	• Socket • HTTP
Default values	-

6.4.4 Transmission Trigger

Configure the SIF sending trigger when is set to "0010" or "0100-1111."

■Begin Outgoing Call

Description	Send SIF command when outgoing call is placed.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■Begin Communication (Source)

Description	Send SIF command when beginning communication.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■Door Release Indication

Description	Send SIF command when door release request is sent.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■End Communication

Description	Send SIF command when ending communication.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■Change contact

Description	Send SIF command when Option Input contact or Relay Output contact is changed.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

111

■ Unit error

Description	Send SIF command when communication error has occurred.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Periodical Transmission

Description	Periodically send the station status using SIF command. The interval is set in "Periodical Transmission Interval (→page 115)".
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Initialization Notice

Description	Send SIF command when the station is booted.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ End Outgoing Call

Description	Send SIF command when ending an outgoing call.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Begin Incoming Call

Description	Send SIF command when beginning an incoming call.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ End Incoming Call

Description	Send SIF command when ending an incoming call.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Latch Reset

Description	Send SIF command by reset latch relay output. ("Latch Output" is selected in "Relay Output" - "Function (→page 94)".)
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Change Call Destination

Description	Send SIF command when changing call destination by delay time or schedule, or making an absent transfer, delay transfer or schedule transfer by the destination station.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Call Failure

Description	Send SIF command when failed to place a call.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Begin Incoming Page

Description	Send SIF command when beginning an incoming page, message page, or external input page.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ End Incoming Page

Description	Send SIF command when ending an incoming page, message page, or external input page.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Begin Monitored

Description	Send SIF command when beginning monitoring.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ End Monitored

Description	Send SIF command when ending monitoring.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■ Begin Communication (Destination)

Description	Send SIF command when communication begins.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

■SIP Registration Failure

Description	Send SIF command when REGISTER request for SIP server has a failure.
Settings	• Checked: Send • Unchecked: Do not send
Default values	Unchecked: Do not send

6.4.5 Periodical Transmission Interval

Periodical Transmission Interval
Periodical Transmission Interval ♦ | 0 | min | 0-1440 minutes. For 1-59 seconds, enter 10001-10059.

■ Periodical Transmission Interval♦

Description	Set the interval to send the station status periodically using SIF command in "Periodical Transmission "Periodical Transmission (→page 112)".
Settings	• 0 (Do not send) - 1440 (min) • 1 - 59 (sec): Enter 10001 - 10059 when setting 1 - 59 sec.
Default values	0 (do not send)

6.4.6 SIF File Management

SIF File Management
SIF Communication Settings (sif.ini)
[ ] Browse Upload
Download

SIF Parameter Settings (sif_conf.ini)
[ ] Browse Upload
Download

■ SIF Communication Settings (sif.ini)

Description	Upload or download the content in "SIF Settings (→page 109)" with "sif.ini." • Upload: Click **[Browse]**, select a file, and then click **[Upload]**. • Download: Click **[Download]** to save the file.
Settings	—
Default values	—

■ SIF Parameter Settings (sif_conf.ini)

Description	Use "sif_conf.ini" to upload or download SIF details if "Program Type (→page 110)" is set to "0000," "0001," or "0011." • Upload: Click **[Browse]**, select a file, and then click **[Upload]**. • Download: Click **[Download]** to save the file.
Settings	—
Default values	—

115

6.5 Communication Audio Messages

Configure the Communication Audio Messages.
Send messages to destination station when beginning communication or by keypad input from the other station (IX-MV7-* or VoIP Phone).

6.5.1 Start Communication

Description	Select the message to be sent to destination station when beginning communication.
Settings	• None • Call Pattern 1 • Call Pattern 2 • Call Pattern 3 • Call Pattern 4 • Call Pattern 5 • Call Pattern 6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	None

6.5.2 Code Received

Configure the message to be sent when the code received. Four patterns can be set for the received code and message.

■Code

Description	Set the code to play message by keypad input from IX-MV7-* or VoIP Phone.
Settings	1 - 20 digits
Default values	—

> 💡 **Note**
>
> • The "Code" is displayed as "●●●●●" in the Settings screen.

■Message

Description	Set the code to play message by keypad input from IX-MV7-* or VoIP Phone.
Settings	• None • Call Pattern 1 • Call Pattern 2 • Call Pattern 3 • Call Pattern 4 • Call Pattern 5 • Call Pattern 6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	None

117

6.6 Chime

Configure the chime tone to be played from this station linked with the set schedule.
Click **[Chime]**.
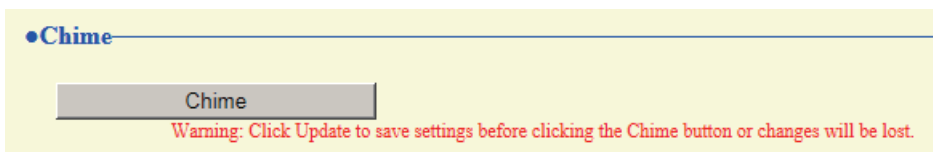
Or, click "Chime" in the Setting menu to switch to the Chime window.

6.6.1 Weekly Schedule

Configure the start time and the chime tone for each day from Sunday through Saturday.
50 schedules can be set for each day.

How to configure the Weekly Schedule

1. Configure the "Start Time" and "Chime" for each day of the week.

2. Click **[Update]**.

■Start Time

Description	Set the Time to ring Chime.
Settings	00:00 - 23:59
Default values	—

118

■Chime

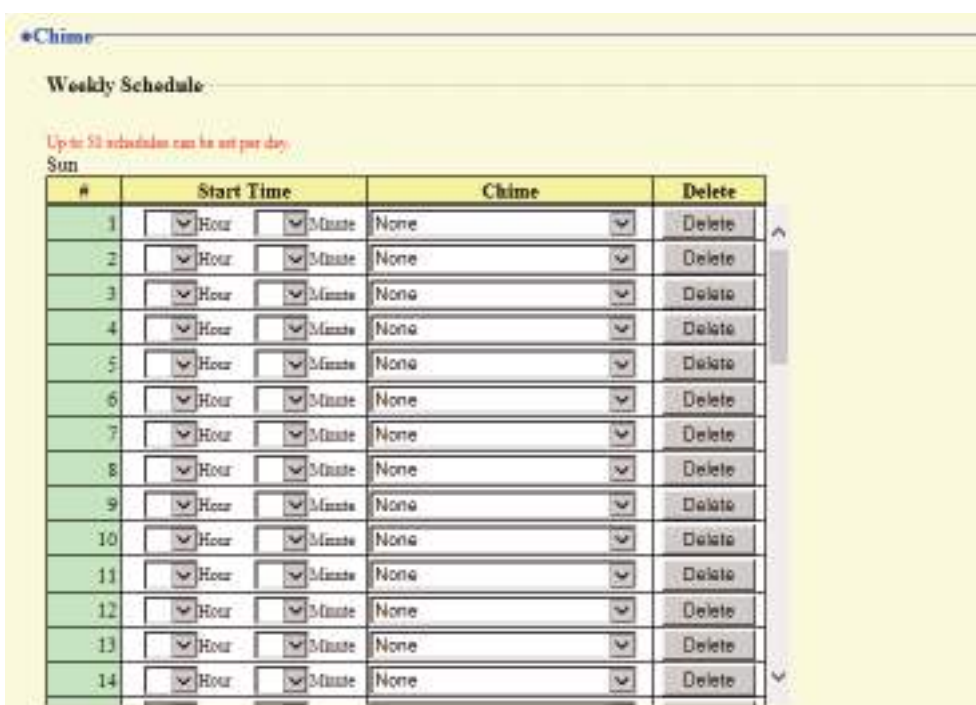| Description	Set the sound for chime.
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	None

How to delete the Weekly Schedule

1. Click **[Delete]** on the row of the schedule to delete.

2. Click **[Update]**.

6.6.2 Daily Schedule

Configure the start time and the chime tone, in units of one day. A schedule one year from the set day can be configured. 50 schedules can be set for each day.

Calendar

Set schedule list

How to configure Daily Schedule

1. Select a day from "Calendar."

2. Configure the "Start Time" and "Chime," and click **[Add]**.

3. Click **[Update]**.

■ Start Time

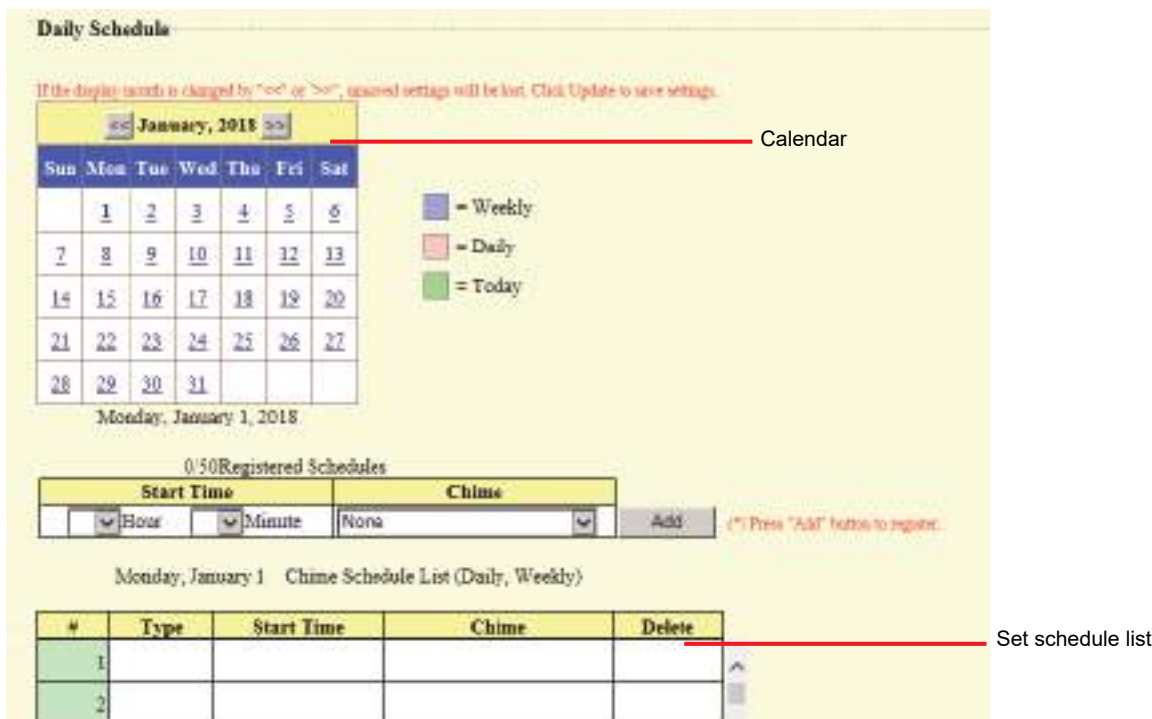| Description	Set the Time to ring Chime.
Settings	00:00 - 23:59
Default values	—

■Chime

Description	Set the sound for chime.
Settings	• None • Call Pattern 1 • Call Pattern 2 • Call Pattern 3 • Call Pattern 4 • Call Pattern 5 • Call Pattern 6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	None

How to delete Daily Schedule

1. Select the day to delete a schedule from "Calendar."

2. Schedules for the selected day are displayed in the "Set schedule list."
 • If a weekly schedule is configured for the selected day of the week, it will also be shown.

3. Click **[Delete]** for the schedule to delete, and click **[Update]**.
 • Refer to "How to delete the Weekly Schedule (→page 119)" to delete a weekly schedule.

121

6.7　CSR

Generate a signature request (CSR) to submit when requesting a server certificate from a certificate authority (CA).

How to generate a signature request (CSR)

1. Configure each entry.

2. Click **[Create]**.

3. Specify the save location and store your created file in it.
   • The default file name is "CSR." Change the file name if it is necessary.

■ Country

Description	Set the country name.
Settings	The two letter abbreviation
Default values	-

■ State/County/Region

Description	Set the prefecture name.
Settings	1-128 alphanumeric characters
Default values	-

■ City/Locality

Description	Set the city/ward/town/village name.
Settings	1-128 alphanumeric characters
Default values	-

■ Organization

Description	Set the organization name.
Settings	1-64 alphanumeric characters
Default values	-

■ Organizational Unit
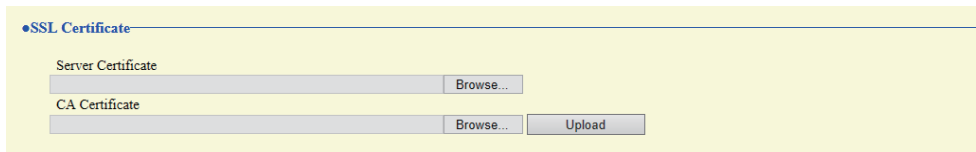
Description	Set the division name.
Settings	1-64 alphanumeric characters
Default values	-

■ Common Name

Description	Set the common name.
Settings	1-64 alphanumeric characters
Default values	The station's IP address is listed.

6.8   SSL Certificate

Upload the Server Certificate received from the Certificate Authority (CA) as well as the CA certificate.

⚠ Important

- When uploading the SSL certificate, restart the station. This may take approx. 10 minutes in total. The station will not function until complete.

How to upload an SSL Certificate

1.   Click **[Browse]** in the Server Certificate to select a file.

2.   Click **[Browse]** in the CA Certificate (if required) to select a file.

3.   Click **[Upload]** to upload the server certificate and CA certificate.
- When uploading is completed, the station will restart.

6.9　IEEE 802.1X

Configure the settings for IEEE 802.1X authentication.

> ⚠️ **Important**
>
> • When the "IEEE802.1X" setting is changed, the station will restart. It may take around 10 minutes for the device to finish restarting. The station cannot be used until it has finished restarting.

■ IEEE 802.1X

Description	Select Enable / Disable for IEEE802.1X function.
Settings	• Enable • Disable
Default values	Disable

■ EAP

Description	Select the EAP method for IEEE802.1X authentication when "IEEE 802.1X (→page 125)" is set to "Enable".
Settings	• TLS • PEAP
Default values	TLS

■ EAP User Name

Description	Set the EAP User Name.
Settings	1 - 32 alphanumeric characters
Default values	—

■ EAP Password

Description	Set the EAP Password when "EAP" is set to "PEAP".
Settings	1 - 32 alphanumeric characters
Default values	—

> 💡 **Note**
>
> • The "EAP Password" is shown as "●●●●●" in the Settings window.

125

■ Certificate Authority

Description	Upload a CA certificate.
Settings	• Upload: Click **[Browse]**, select a file, and then click **[Upload]**. • Delete: Click **[Delete]** to delete registered data.
Default values	—

■ Client Certificate

Description	Upload the certificate for client authentication if "EAP (→page 125)" is set to "TLS."
Settings	• Upload: Click **[Browse]**, select a file, and then click **[Upload]**. • Delete: Click **[Delete]** to delete registered data.
Default values	—

■ Client Private Key

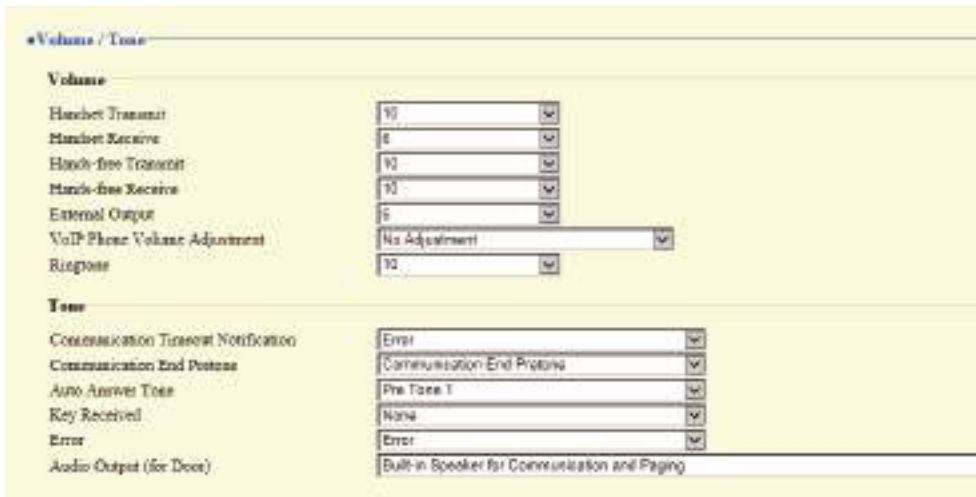| Description	Upload the private key for client authentication if "EAP (→page 125)" is set to "TLS."
Settings	• Upload: Click **[Browse]**, select a file, and then click **[Upload]**. • Delete: Click **[Delete]** to delete registered data.
Default values	—

7. Station Settings

7.1 Volume / Tone

7.1.1 Volume

■Handset Transmit

Description	Set the transmit volume using handset while communicating.
Settings	1 (Low) - 10 (High)
Default values	10

■Handset Receive

Description	Set the receive volume using handset while communicating. Also sets ringback tone volume.
Settings	1 (Low) - 10 (High)
Default values	6

■Hands-free Transmit

Description	Set the hands-free transmit volume while communicating.
Settings	1 (Low) - 10 (High)
Default values	10

■Hands-free Receive

Description	Set the hands-free receive volume while communicating and paging. Also sets ringback tone volume.
Settings	1 (Low) - 10 (High)
Default values	10

■External Output

Description	Set the transmit volume using external output.
Settings	1 (Low) - 10 (High)
Default values	6

■VoIP Phone Volume Adjustment

Description	Select the volume adjustment between VoIP Phone and IX stations.
Settings	• -12dB from VoIP, +12dB to VoIP • -6dB from VoIP, +6dB to VoIP • No Adjustment • +6dB from VoIP, -6dB to VoIP • +12dB from VoIP, -12dB to VoIP
Default values	No Adjustment

■Ringtone

Description	Select the volume for Ringtone and Paging Pretone.
Settings	0 (Off), 1 (Low) - 10 (High)
Default values	10

7.1.2   Tone

■Communication Timeout Notification

Description	Select the tone to be played when an outgoing call times out.
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Error

128

■Communication End Pretone

Description	Select the tone to be played 10 sec before communication, paging or monitoring ends.
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Communication End Pretone

■Auto Answer Tone

Description	Ringtone when receiving an individual call. "Auto Answer (→page 89)" must be set to "ON."
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Pre Tone 1

129

■ Key Received

Description	Configure the tone to send to the destination station when the door release key entered using a keypad on the destination station (station performing a door release operation) or the relay control key entered using the numerical keypad on the VoIP phone matches the authentication key of this station (station connected to the electrical lock). The tone will be heard on the other station.
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	None

■ Error

Description	Select the tone to be played when error has occurred.
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	Error

■ Audio Output (for Door)

Description	Set using Line Audio / External Speaker or Built-in Speaker while communicating and paging.
Settings	• Built-in Speaker for Communication and Paging • External speaker output for Communication and Paging • Built-in Speaker for communication, External speaker output for Paging
Default values	Built-in Speaker for Communication and Paging

7.2   Communication

●Communication

Talk Timeout [sec]♦	30-600 sec ▾ 60 sec Infinite or 30-600 sec / 1 sec step
Communication Start Tone	None ▾

■ Talk Timeout [sec]♦

Description	Set the communication timer when placing a call or answering a page. Communication timer when receiving a call is set at the destination station.
Settings	• Infinite: No timeout. • 30 - 600 sec: Configure between 30 to 600 sec (by 1 sec).
Default values	60 sec

ⓘ Important

• During a communication with an VoIP Phone, this will be the call duration configured on the VoIP Phone.

■ Communication Start Tone

Description	Select the tone to be played when communication starts.
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	None

7.3 Monitor

●Monitor

Prevent Being Monitored	○ON	◉OFF
Monitored Notification Tone	None ▼	
Monitored LED Notification	○ON	◉OFF

■Prevent Being Monitored

| Description	Select ON / OFF to prevent being monitored.
Settings	• OFF: Prevent being monitored. • ON: Allow monitoring.
Default values	OFF

■Monitored Notification Tone

Description	Select the tone to be played when monitored by another station.
Settings	• None • Call Pattern1 • Call Pattern2 • Call Pattern3 • Call Pattern4 • Call Pattern5 • Call Pattern6 • Tremolo Sound • Busy Response Tone • On Hold • Operation Sound • Error • Pre Tone 1 • Pre Tone 2 • Pre Tone 3 • Communication End Pretone • Call Queue Notification • Waiting Reply Tone • Select a sound that is registered in "Custom Sound Registry (→page 77)".
Default values	None

■Monitored LED Notification

Description	Select ON / OFF for status LED notification (Blue flashing) while being monitored by another station.
Settings	• ON • OFF
Default values	OFF

132

7.4 Door Release for IX-RS
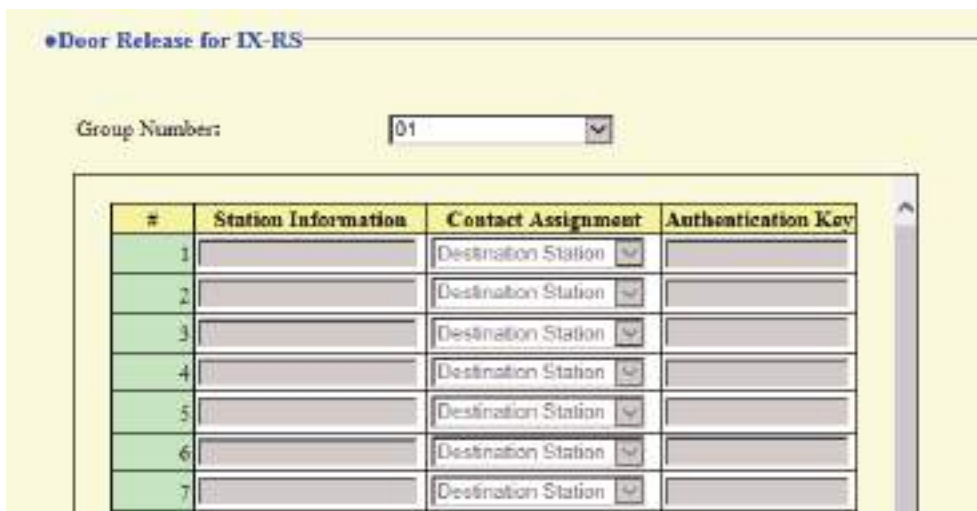
How to configure door release operation

1. Select the group number to configure from "Group Number."
  • Settings for the selected group number are displayed.

2. Configure each item.

3. Click **[Update]**.

■ Contact Assignment

Description	Select which relay output will be used for door release during call.
Settings	• Originating Station: Use origination station relay output for door release. • Destination Station: Use destination station relay output for door release.
Default values	Destination Station

■ Authentication Key

Description	When "Destination Station" is selected in "Contact Assignment (→page 133)" set the Authentication Key for door release. Authentication key must match with the destination station's authentication key.
Settings	1 - 20 digits
Default values	—

> 💡 **Note**
>
> • The "Authentication Key" is displayed as "●●●●" in the Settings screen.
>
> • Configure the door release key using 1 to 4 digits, when releasing an electrical lock connected to IX-MV, IX-DA, IX-DF(-*), IX-BA, or IX-SS(-*).

133

■Door Release by IX-RS

Description	Select Enable / Disable for door release.
Settings	• Enable • Disable
Default values	Disable

8. Maintenance

8.1 Firmware Update

Access our website at https://www.aiphone.net/support/ to download the latest version of the firmware.

How to update the firmware

1. Click **[Browse]** and select the firmware file to download.

*2.* Click **[Firmware Update]**.

🛈 **Important**

• If the firmware update is started while the station is operating (such as on a call), the operation will end and the firmware update will begin.

• If power is turned off while updating the firmware, the station may malfunction.

• The station will be inoperable while updating the firmware.

• When the firmware is updated, the station will automatically restart.

💡 **Note**

• If the update fails, repeat the procedure.

135

8.2　Initialization

●Initialization

Initialization

Initialize User Settings
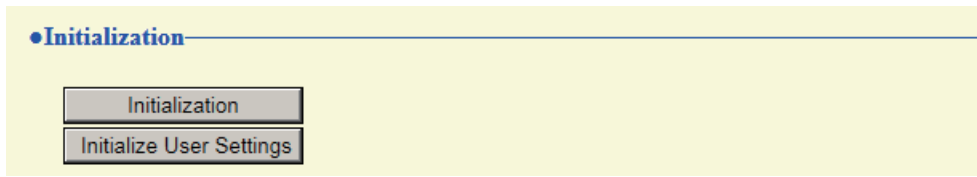
How to initialize

1. Click **[Initialization]** or **[Initialize User Settings]**.
  • Initialization: All settings revert to their default values. The system log and outgoing/incoming call history will be cleared.
  • Initialize User Settings: Only user settings are initialized.

2. Click **[OK]**.
  • Click **[Cancel]** to cancel the initialization.

❗ Important

• After selecting "**[Initialization]**", the station will restart. This may take approx. 10 minutes in total. The station will not operate until the restart is complete.

• If the initialization process fails, the message ("Error: Station initialization failed.") will appear. If this happens, perform initialization again.

8.3　Settings File Backup

Back up the setting file so it can be used to restore the system.
How to back up the setting file

> ⓘ **Important**
>
> • When a setting is changed, back up the setting file. With the backup setting file, the settings of a replaced station can easily be restored.
>
> • The following items are not backed up. Either save this setting data separately, or back it up using IX Support Tool.
>
> – Sound data registered in "Custom Sound Registry (→page 77)"
>
> – SIF data uploaded in "SIF (→page 109)"
>
> – Certificate data uploaded in "SSL Certificate (→page 124)"
>
> – Certificate and other data uploaded in "IEEE 802.1X (→page 125)"

1. Click **[Download Settings File]**.

2. Specify the location to store the setting file.
  • The default file name is "GetConfig." Change the file name if needed.

How to restore setting file

> ⓘ **Important**
>
> • When data (IP address updates) is restored, this station will restart. It may take around 10 minutes for it to finish restarting. The station cannot be used until it has finished restarting.
>
> • Data for the following items and the station's display language cannot be restored using this procedure. Upload from each item.
>
> – Audio source data registered in "Custom Sound Registry (→page 77)"
>
> – SIF data uploaded in "SIF (→page 109)"
>
> – Certificate data uploaded in "SSL Certificate (→page 124)"
>
> – Certificate data and the like uploaded in "IEEE 802.1X (→page 125)"
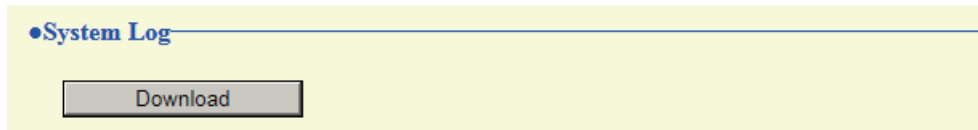
1. Click **[Browse]**.

2. Select the setting file to be restored, and click **[Open]**.

3. Click **[Restore Settings File]**.

137

4. Click **[OK]**.
  • Click **[Cancel]** to cancel the restore process.

8.4   System Log

Download the system log to view the operation of the station. The log is mainly used for troubleshooting.

●System Log

Download

■How to view the system log file

1.   Click **[Download]**.

2.   Specify the location to store the setting file.
   • The data file will be given the name "systemlog.txt." Change the file name as necessary and save it.

139

8.5 syslog

●syslog

IPv4 Address	[_____] 1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)
IPv6 Address	[_____] ::FF:0-FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname(1-64 alphanumeric characters)
Port ♦	[514___] 1-65535

■ IPv4 Address

Description	Set the IPv4 address for syslog server.
Settings	1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)
Default values	—

■ IPv6 Address

Description	Set the IPv6 address for syslog server.
Settings	::FF:0 - FEFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname (1 - 64 alphanumeric characters)
Default values	—

■ Port♦

Description	Set the port number of syslog server.
Settings	1-65535
Default values	514