

# ELSGW Emulator Instruction Manual (V1.05)

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## 1. Description

ELSGW emulator is for simulating ELSGW operation by connecting ACS (Access Control System). This document describes the instruction of ELSGW emulator operation.

## 2. System requirements

Table 2-1 System requirements

Items	Contents	Remarks
OS	Microsoft Windows 10 Japanese/English [64bit/32bit]	Windows8.1 is under preparation
	Microsoft Windows 7 Japanese/English [64bit/32bit]	
Input/Output port	LAN port x1	
Screen resolution	1280 x 1024 pixel or higher	

## 3. System configuration

### 3.1. Equipment designation

- GC : Elevator Group Controler
- ELSGW : Elevator-Security GateWay
- SEAC : Security Access Controller
- C/R : Card-Reader
- DC : Display Controller
- INDI : INDicator

### 3.2. Configuration Diagram

#### 3.2.1. SEAC Diagram

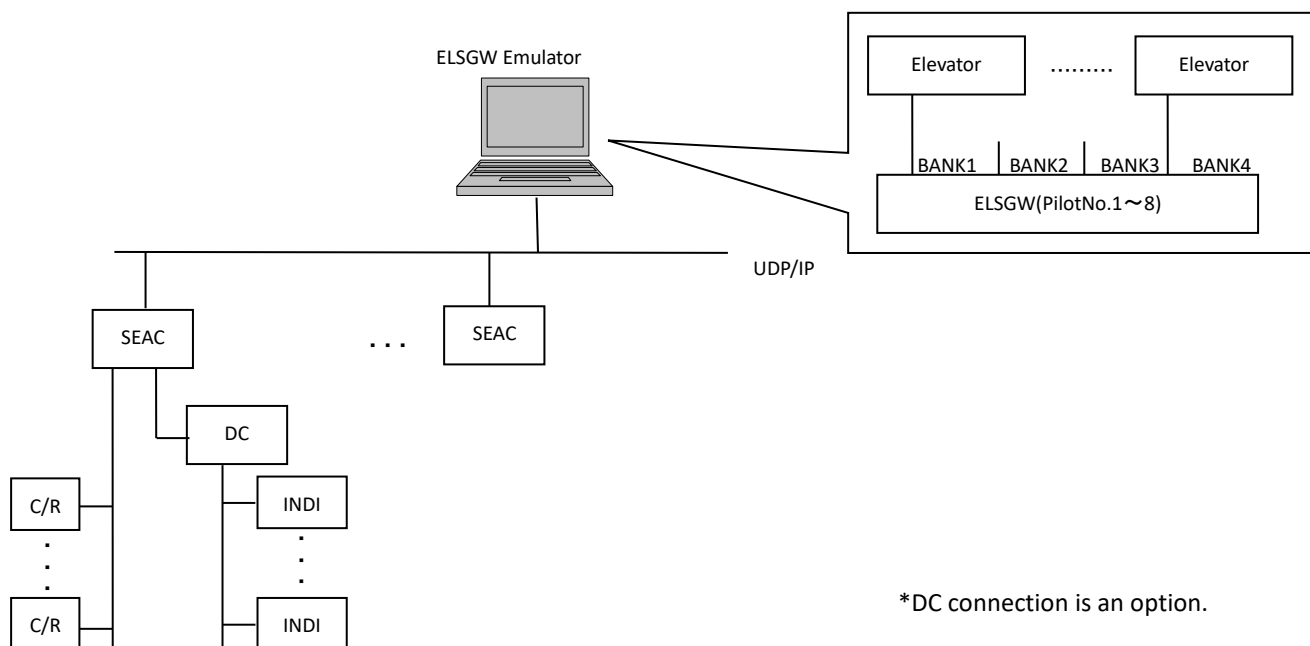


Diagram 1. SEAC Configuration

### 3. 2. 2. SEAC and DC Diagram

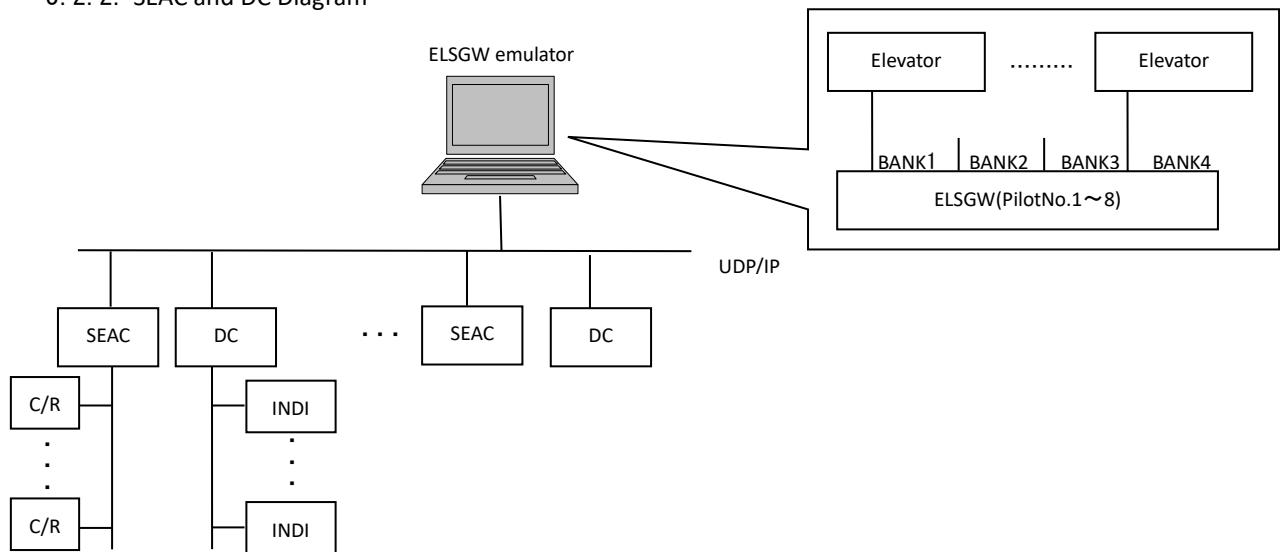


Diagram 2 SEAC + DC Configuration

### 3. 2. 3. DC Diagram

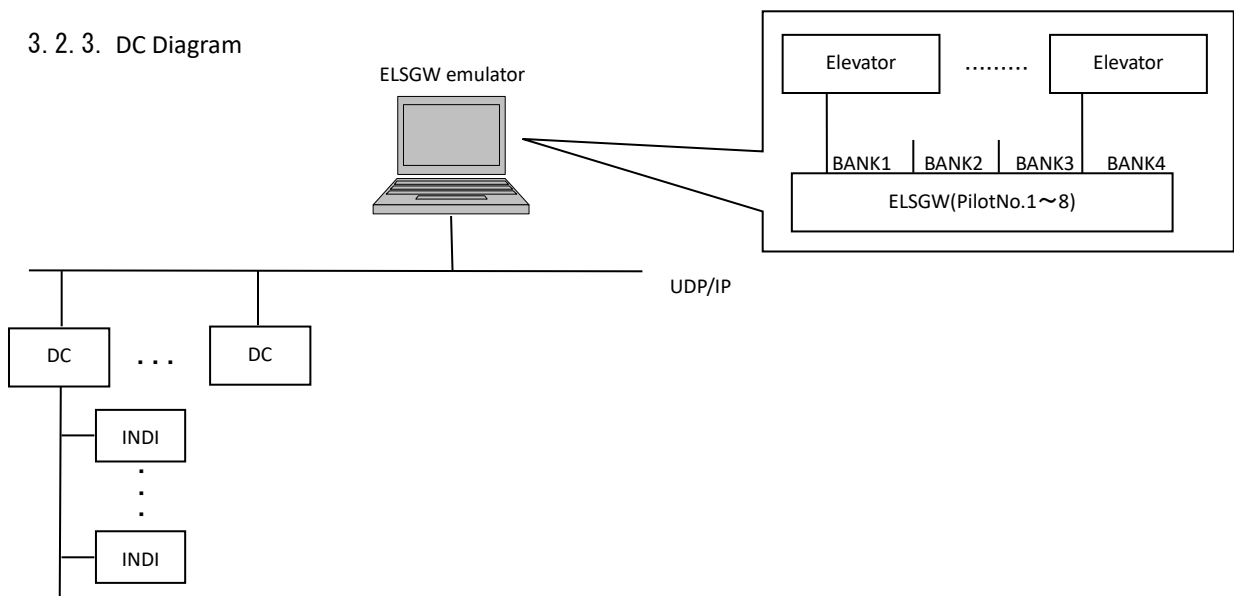


Diagram 3 DC Configuration

### 3.3. ELSGW emulator function

ELSGW emulator analyzes the commands outputted from SEAC to ELSGW emulator, displays the analysis result on the screen, and responds to the commands. ELSGW emulator is connected with DC to output the commands from ELSGW emulator

### 3.4. Start up

#### 3. 4. 1. S/W installation

Step 1 : Install the ELSGW emulator in the PC for ELSGW emulator.

Refer to Chapter 4 for details.

#### 3. 4. 2. PC system setting

The initial preparation procedures of the ELSGW emulator is described below.

Step 1 : Set the same IP address with the ELSGW to the ELSGW emulator PC.

Items	Setting value	Remarks
IP address	192.168.0.11 (default)	To be set as required by each project.
Subnet mask	255.255.255.0 (default)	To be set as required by each project.
Default gateway	N/A	

(Set the above items according to the setting procedures of the Windows.)

#### 3. 4. 3. Test preparation

The testing procedures for the ELSGW emulator are described below.

Step 1 : Connect Ethernet cable to ELSGW emulator PC.

Step 2 : Start the ELSGW emulator with the administrator privilege account.

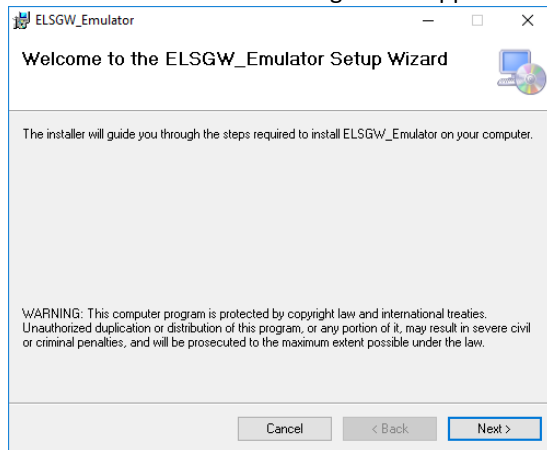
**Start→AllPrograms→ELSGW\_Emulator→ELSGW\_Emulator**

Step 3 : Start the testing program.

Refer to Chapter 8.2 for details.

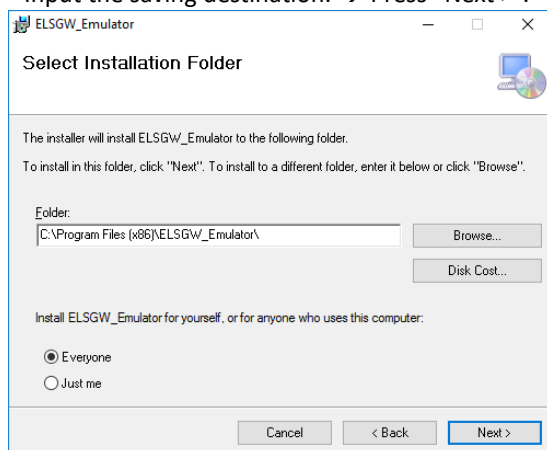
#### 4. Installation procedures

- a) Log-in PC with the administrator privilege account.
- b) Run “Setup.exe”.
- c) Press “Next >” as the following screen appears.



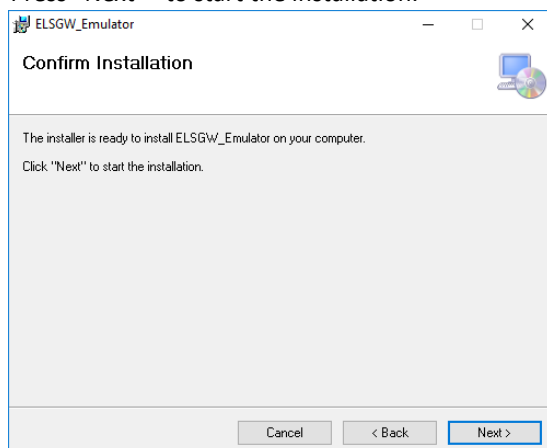
Installation step 1

- d) Input the saving destination. → Press “Next >”.



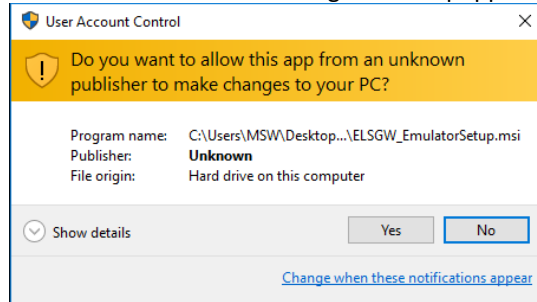
Installation step 2

- e) Press “Next >” to start the installation.



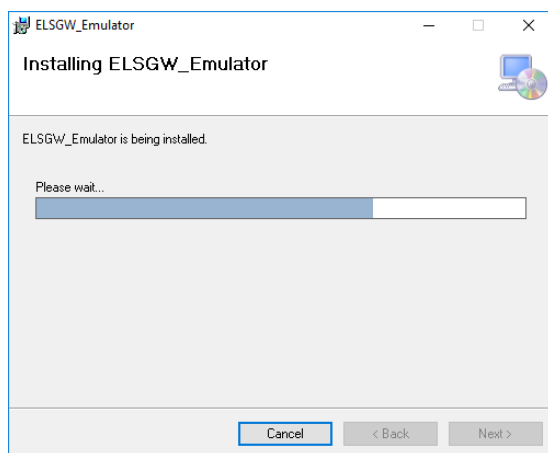
Installation step 3

- f) Press “Yes” when the following screen is popped up.



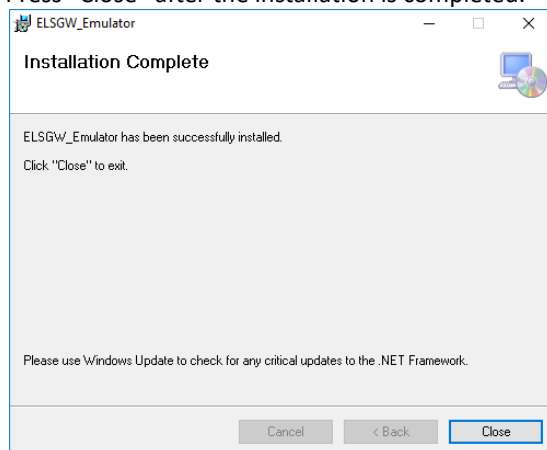
Installation step 4

- g) Wait until the installation process is completed. If you would like to stop the installation, press “Cancel” button.



Installation step 5

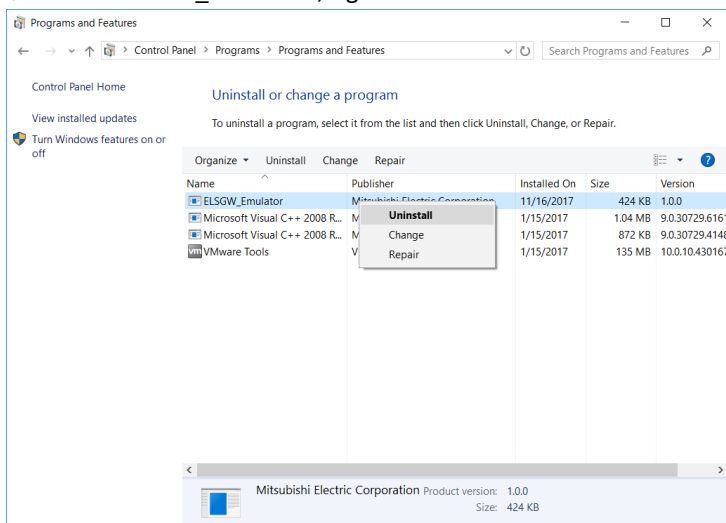
- h) Press “Close” after the installation is completed.



Installation step 6

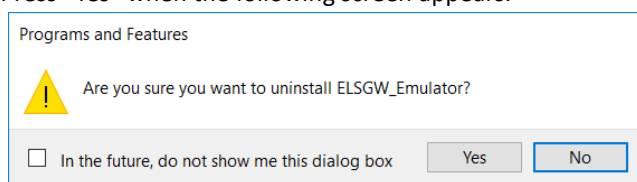
## 5. Uninstallation procedures

- a) **Start→ControlPanel→Programs→Uninstall a program.**
- b) Select “ELSGW\_Emulator”, right-click on the mouse and select “Uninstall”.



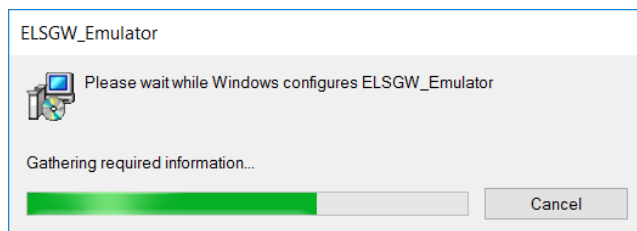
Uninstallation step 1

- c) Press “Yes” when the following screen appears.



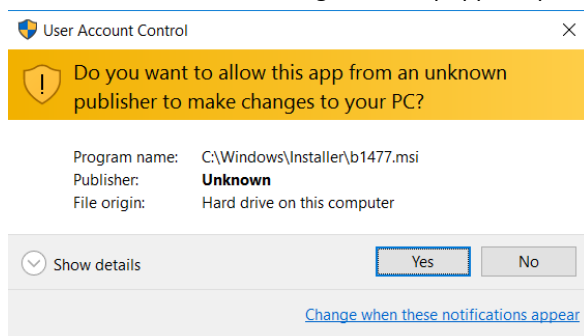
Uninstallation step 2

- d) Uninstallation starts.



Uninstallation step 3

- e) Press “Yes” when the following screen is popped up.



Uninstallation step 4



6. Version upgrade procedures

- a) Uninstall the old version of the ELSGW emulator.

Refer to Chapter 5 for details.

- b) Install the new version of the ELSGW emulator.

Refer to Chapter 4 for details.

## 7. Specifications

### 7.1. Functions

Table 7-1 Functions

Items	Functions	Remarks
Communication with SEAC/SCPC/DC /SMARTPHONE	<ul style="list-style-type: none"> <li>• UDP send/receive (Unicast/Multicast/Broadcast)</li> <li>• Display data (send/receive)</li> <li>• Send Verification acceptance data</li> <li>• Send time data automatically</li> <li>• Set Elevator's call info</li> <li>• Send startup data automatically</li> <li>• Set smartphone info</li> <li>• Set equipment → elevator (General packet)</li> </ul>	
Group control simulation	<ul style="list-style-type: none"> <li>• Setting Verification acceptance data</li> <li>• Setting Elevator operation status</li> </ul>	
ELSGW simulation	<ul style="list-style-type: none"> <li>• Check a received data</li> <li>• Automatic sending of Heartbeat data</li> <li>• ELSGW unit No. setting (ELSGW No1～32)</li> </ul>	ELSGW emulator judges that security equipment has a failure if the ELSGW emulator doesn't receive a packet from security equipment for more than 1min.
Data analysis	<ul style="list-style-type: none"> <li>• Analyze and display sent/received data</li> </ul>	
File saving	<ul style="list-style-type: none"> <li>• Save/Read data</li> </ul>	

### 7.2. Command

Table 7-2 Commands

Transmission	Transmission method	Data	Command No.	Remarks
SEAC/SCPC /DC/ SMARTPHONE ↓ ELSGW	Multicast / Unicast	Elevator call data (Single floor)	01h	
		Elevator call data (Multiple floors)	02h	SC Protocol converter, No smartphone server
		Service floor request	42h	Security floor release / set
	Broadcast	Heart beat data	F1h	
	(Specify the sender)	Equipment → Elevator (General packet)	4Fh	The general packets from an equipment to an elevator.
ELSGW ↓ SEAC/SCPC /DC/ SMARTPHONE	Unicast / Multicast / Broadcast	Verification acceptance data	81h	Send to SEAC if the elevator call data (Single floor/ Multiple floors) is normal. Multicast or broadcast transmission is possible by manual setting.
	Unicast	Service floor response	C2h	Response for service floor request.
	Multicast	Elevator's call info	C3h	Removal of the floor security by pressing a button in COP cooperated with BM.
		Smartphone info	A2h	
	(Use this tool)	General packet	CFh	General packet from elevator to equipment.
ELSGW ↓ ALL	Broadcast	Elevator operation status	91h	Broadcasts to security equipment every 5 seconds. Bank 1 - 4 (the available bank only)
		Heart beat data	F1h	Send the data every 15 seconds.
		Time data	F2h	Send the data every time PC clock shows 00 sec.
		Startup data	F3h	Send the data when the elevator bank startups.
SC protocol converter ↓ ELSGW	Multicast	Release of "elevator's call registration control" all at once	0Fh	

## 8. Operation guide

### 8.1. Main screen

① Tool, version  
② IP address  
③ Verification acceptance data  
④ Elevator operation status  
⑤ Elevator's call info  
⑥ Smartphone Info  
⑦ General packet  
⑧ Start (stop)/Exit  
⑨ Transmission data (receive)  
⑩ Command filter  
⑪ Clear data  
⑫ Load data  
⑬ Save data  
⑭ Transmission data (send)  
⑮ ELSGW number info  
⑯ Counter  
⑰ Detail data

Double-click to see details

Mouse-over to show the error

**Elevator's call(single floor)**

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0014	01	01	01	01	00000000

Transmission packet data

Command number	Data length	Device number	Verification type	Verification location	Hall call button riser attribute	Reserve	Boarding floor
01	12	0001	01	01	00	00	0001

Destination floor	Boarding Front/Rear	Destination Front/Rear	Elevator's call attribute	Nonstop	Call registration mode	Sequence number	Reserve	Reserve
0001	01	01	00	00	00	0A	00	00

Figure 4 Main screen

## 8.2. Procedure

Step 1 : Select IP address from (8.1 ②) drop-down list.

Step 2 : Select "Start" button from (8.1 ⑧) "Start(Stop)/Exit" button.

Step 3 : Communication starts and the following data are displayed in (8.1 ⑭) "transmission data (send)".

- Elevator operation status (5 seconds cycle)
- heartbeat(15 seconds cycle)

\*Only Bank1. ELSGW number info can send from multiple banks by enabling Bank 2 - 4 in (8.1 ⑮).

Step 4 : Check whether SEAC can receive the data shown in step3.

Step 5 : Transmit "Elevator call" data from SEAC to ELSGW emulator.

Step 6 : "Elevator call" data is displayed in (8.1 ⑨) "Transmission data (receive)". At this point, when ELSGRW emulator receives unusual data, the background color is changed to red and ELSGRW emulator doesn't respond a "Verification acceptance" data to the SEAC.

Step 7 : Double-click the received data to check whether the ELSGW emulator has received the data output from SEAC successfully.

If there is an unusual data, the background color is highlighted in red and the data needs to be amended.

Step 8 : ELSGW emulator responds a "Verification acceptance data" to the SEAC when the "Elevator call data" is correct.

Step 9 : "Verification acceptance data" is displayed in (8.1 ⑭) "transmission data (send)".

Step 10 : Check whether SEAC has received "Verification acceptance data" successfully.

Step 11 : Click "Stop" button in (8.1 ⑧) "Start(Stop)/Exit" to disconnect the data communication.

Step 12 : Click "Exit" button in (8.1 ⑧) "Start(Stop)/Exit" to end the test.

### 8.3. Function explanation

The section numbers in this chapter corresponds to the numbers in chapter エラー! 参照元が見つかりません. .

#### ① Tool version

- Display tool name and version.

#### ② IP information

- Display network information and IP information list.
- Display the IP information list of your own PC network settings.  
\*If no information is displayed, check the network settings.
- Select IP address in the drop-down list to set the IP address.  
\*Perform this operation before pressing “Start” button.

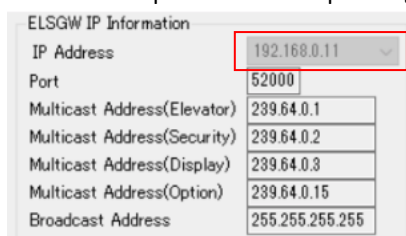


Figure 5 IP Information

#### ③ Verification acceptance data

- The mode can be selected from following 3, ☒ Full Auto ☐ Automatic reply + Address manual setting ☐ Manual reply .
- The following table shows functions for each mode.

Table 8-1 Mode selection

Mode	Function	Condition
Full Auto	Send “verification acceptance data” to the sender of “Elevator call data”.	SEAC
Automatic reply + Address manual setting	Send “verification acceptance data” to the specified equipment when “Elevator call data” is received. *To use this function, edit “INI file”to (VERIFICATION_AUTOREPLY=1) which switches the verification acceptance display (AUTO REPLY) from hide to display..	SEAC+DC
Manual reply	Regardless of “Elevator call data” reception, send “Verification acceptance data” to any equipment with any timing. *To use this function, edit “INI file” to (VERIFICATION_MANUALREPLY=1) which switches the verification acceptance (MANUAL REPLY) from hide to display.	DC

Table 8-2 Function list

Items		Full Auto	Automatic reply + Address manual setting	Manual reply
Device number		Auto		Manual
Acceptance status		Select from the drop-down list		
Assigned elevator car number		Select from the drop-down list		
Sequence number		Auto		Manual
Address manual setting	IP address	Respond to sender IP address	Manual	
	Address device type	Auto		Manual
	Address device number	Auto		Manual
	Sender device type	Auto		Manual
	Sender device number	Auto		Manual

Manual sending function	Invalid (Once "Elevator call "data is received, send immediately.)	Valid (Press "Send" button to send)
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#### ■ Common setting

- The sent data of "Acceptance status" and "Assigned elevator car number" for hall/ car verification are selectable.
- When "[01] Unlock restriction "or "[FF] Cannot register elevator's call "is selected for the "Acceptance status" for hall, "Assigned elevator car number" is fixed to "[FF] No assigned elevator car" .

Hall	
Device number	<input checked="" type="checkbox"/> Auto
Acceptance status	[00]Automatic registration of elevator's call ▼
Assigned elevator car number	[01]#F ▼
Sequence number	<input checked="" type="checkbox"/> Auto
Car	
Device number	<input checked="" type="checkbox"/> Auto
Acceptance status	[00]Automatic registration of elevator's call ▼
Assigned elevator car number	00
Sequence number	<input checked="" type="checkbox"/> Auto

Table 6 Common setting

#### ■ Full Auto

Verification acceptance data   Elevator operation status	
<input checked="" type="radio"/> Full Auto <input type="radio"/> Automatic reply + Address manual setting <input type="radio"/> Manual reply	
Hall	
Device number	<input checked="" type="checkbox"/> Auto
Acceptance status	[00]Automatic registration of elevator's call ▼
Assigned elevator car number	[01]#F ▼
Sequence number	<input checked="" type="checkbox"/> Auto
Car	
Device number	<input checked="" type="checkbox"/> Auto
Acceptance status	[00]Automatic registration of elevator's call ▼
Assigned elevator car number	00
Sequence number	<input checked="" type="checkbox"/> Auto

Figure 7 Verification acceptance data (Full Auto)

Table 8-3 Full Auto setting

Items		Operation	Remarks
Header	IP	-	
	Address device type	-	Set the received "Sender device type".
	Address device number	-	Set the received "Sender device number".
	Sender device type	-	Set the received "Address device type".
Data	Sender device number	-	Set the received "Address device number".
	Device number	-	Set the received "Device number".
	Acceptance status	Select from menu	
	Assigned elevator car number	Select from menu	
	Sequence number	-	Set the received "Sequence number".

### ■ Automatic reply + Address manual setting

Figure 8 Verification acceptance data (Automatic reply + Address manual setting)

Table 8-4 Automatic reply + Address manual setting

Items		Setting	Remarks
IP		Select the sending IP.	
Header	Address device type	Select the sending value	
	Address device number	-	Set the received "Sender device number".
	Sender device type	-	Set ELSGW as (01h).
	Sender device number	-	Set the received "Address device number".
Data	Device number	-	Set the received "Device number".
	Acceptance status	Select from menu	
	Assigned elevator car number	Select from menu	
	Sequence number	-	Set the received "Sequence number".

### ■ Manual reply

Figure 9 Verification acceptance data (Manual reply)

Table 8-5 Manual reply setting

Items		Operation	Remarks
IP		Select the sending IP Press "<--" button.	If the IP address is incorrect, "IP Address Error" is displayed.
Header	Address device type	Select the sending value	
	Address device number	Select the sending value (*1)	
	Sender device type	-	Set ELSGW as (01h).
	Sender device number	Select the sending value	
Data	Device number	Select the sending value	
	Acceptance status	Select from menu	
	Assigned elevator car number	Select from menu	
	Sequence number	Select the sending value	

(\*1)When “Address device number” is “255”, the address selected for “Address device type” is set as IP address and IP is fixed. When the value is other than “255”, it is unicast and not set as IP address.

Table 8-6 Relationship between Address device type and IP

Address device type	IP address	Remarks
[11]SEAC	239.64.0.2	The value of “MULTICAST_SECU” in INI file.
[12]SCPC		
[21]DC		
[22]SMARTPHONE	239.64.0.3	The value of “MULTICAST_DISP” in INI file.
[E0]–[EF]OPTION_01–16	239.64.0.15	The value of “MULTICAST_OPTION” in INI file.
[255]ALL	255.255.255.255	The value of “BROADCAST” in INI file.

- “Verification acceptance data” is sent by pressing “Send” button.



#### ④ Elevator operation status

- The mode can be selected from following 2, ☒ Full Auto ☐ Address manual setting .
- The ELSGW emulator can send the “Elevator operation status “of only valid banks in 5 seconds cycle.

Table 8-7 Elevator operation status

Items	Operation	Remarks
Full Auto	Send “Elevator operation status” to the specified equipment (SEAC).	SEAC
Address manual setting	Send “Elevator operation status “to the specified equipment. *To use this function, edit “INI file” to (ELE_OPE_MANUAL=1) which switches elevator operation status (MANUAL REPLY) from hide to display..	SEAC+DC or DC

#### ■ Common setting

- Elevators under normal operation are selectable. (\*The valid banks only)(Default : All selected)

“Under operation car” check cannot be changed when the bank number is invalid.

Figure 10 Elevator operation status

#### ■ Full Auto

Figure 11 Elevator operation status (Full Auto)

Table 8-8 Full Auto setting

Items		Operation	Remarks
Header	IP	-	Automatic setting of “Broadcast”.
	Address device type	-	Set the received “Sender device type”.
	Address device number	-	Set the received “Sender device number”.
	Sender device type	-	Set the received “Address device type”.
	Sender device number	-	Set the received “Address device number”.
Data	Under operation car	Select valid elevator No.	

## ■ Address manual setting

The screenshot shows a software interface for 'Elevator operation status'. It has two tabs: 'Verification acceptance data' and 'Elevator operation status'. The 'Elevator operation status' tab is active. Inside, there are two radio buttons: 'Full Auto' (unselected) and 'Address manual setting' (selected). Below the radio buttons, there are four tabs for 'Bank01', 'Bank02', 'Bank03', and 'Bank04'. The 'Bank01' tab is selected. Under 'Bank01', there is a section 'Under operation car' with a grid of checkboxes for #F, #G, #H, #I, #A, #B, #C, #D, #J, #K, #L, and #M, all of which are checked. To the right of this grid is the 'Address manual setting' section. It contains an 'IP' field with the value '239.64.0.3'. Below that is a 'Packet header' section with four fields: 'Address device type' (a dropdown menu showing '[21]DC'), 'Address device number' (a numeric field with '255'), 'Sender device type' (a numeric field with '01'), and 'Sender device number' (a checkbox labeled 'Auto' which is checked).

Figure 12 Elevator operation status (Address manual setting)

Table 8-9 Address manual setting

Items		Operation	Remarks
IP		-	Automatically set by setting "Address device type".
Header	Address device type	Select from menu	
	Address device number	-	All equipment is fixed as (FFh).
	Sender device type	-	Set ELSGW as (01h).
	Sender device number	-	Set the bank number corresponds to "Pilot number".
Data	Under operation car	Select an available elevator No.	

### ⑤ Elevator's call info

- This function is activated when ☒ Effective button is checked.
- The mode can be selected from following 2, ☒ Full Auto ☐ Address manual setting .
- The ELSGW can send the "Elevator's call info "of only valid banks in 5 seconds cycle

Table 8-10 Elevator's call info

Items	Operation	Remarks
Full Auto	Send "Elevator's call info" to the specified equipment (SEAC).	SEAC
Address manual setting	Send "Elevator's call info" to the specified equipment. * To use this function, edit "INI file" to (ELE_CALL_INFO_MANUAL =1) which switches elevator's call info (MANUAL) button from invalid to valid.	SEAC+DC or DC

### ■ Common setting

- The elevator's call info can set per bank. (\*The valid banks only)
- "Elevator's call info "data is sent by pressing "Send" button.

Figure 13 Elevator's call information

- Another window is popped up by pressing "Floor Data" button and "Car call destination floor" is selectable.

Figure 14 Elevator's call info

- To set a elevator's car call, select a building floor with a mouse. (The building floor becomes highlighted in yellow.)
- To cancel a elevator's car call, select the highlighted building floor with a mouse. (The building floor becomes highlighted.)

### ■ Full Auto

Figure 15 Elevator's call info (Full Auto)

Table 8-11 Full/Auto setting

Items		Operation	Remarks
IP		-	Automatic setting of "Multicast"
Header	Address device type	-	Set SEAC as (11h).
	Address device number	-	All equipment is fixed as (FFh).
	Sender device type	-	Set ELSGW as (01h).
	Sender device number	-	Set the bank number corresponds to "Pilot number".
Data	Direction	Select from menu	
	Elevator car number	Select from menu	
	Attribute	Select from menu	
	Deck	Select from menu	
	Floor Data	Set "Car call destination floor"	

### ■ Address manual setting

Figure 16 Elevator's call info (Address manual setting)

Table 8-12 Address manual setting

Items		Operation	Remarks
IP		-	Automatic setting of "Multicast"
Header	Address device type	Select from menu	
	Address device number	-	Fix all equipment as (FFh).
	Sender device type	-	Set ELSGW as (01h).
	Sender device number	-	Set the bank number corresponds to "Pilot number".
Data	Direction	Select from menu	
	Elevator car number	Select from menu	
	Attribute	Select from menu	
	Deck	Select from menu	
	Floor Data	Set "Car call destination floor"	

⑥ Smartphone info

- This function is activated when ☒ **Effective** button is checked.
- The mode can be selected from following 2, ☒ Full Auto   ☐ Address manual setting .

Table 8-13 Smartphone info

Items	Operation	Remarks
Full/Auto	Send "Smartphone info" to the specified equipment (SMARTPHONE).	
Address manual setting	Send "Smartphone info" to the specified equipment (SMARTPHONE). * To use this function, edit "INI file "to (SMARTPHONE_INFO_MANUAL =1) which switches smartphone info (MANUAL) button from invalid to valid.	

■ Common setting

- The elevator's call info can set per bank. (\*The valid banks only)
- "Elevator's call info "data is sent by pressing "Send" button.

Figure 17 Smartphone info

## ■ Full Auto

Figure 18 Smartphone info (Full Auto)

Table 8-14 Full Auto setting

Items		Operation	Remarks
IP		-	Automatic setting of "Multicast"
Header	Address device type	-	Set "SMARTPHONE" as (22h).
	Address device number	-	Fix all equipment as (FFh).
	Sender device type	-	Set ELSGW as (01h).
	Sender device number	-	Set the bank number corresponds to "Pilot number".
Data	Elevator car number		Select from menu
	Car position(Arrive)		Select item
	Car position(Display)		Select item
	UP direction		Select item
	DN direction		Select item
	Cancel		Select item
	Front	UP arrive	Select item
		DN arrive	Select item
		Door status	Select from menu
	Rear	UP arrive	Select item
		DN arrive	Select item
		Door status	Select from menu

## ■Address manual setting

Figure 19 Smartphone info (Address manual setting)

Table 8-15 Address manual setting

Items		Operation	Remarks
IP		-	Automatic setting of "Multicast".
Header	Address device type	Select from menu	
	Address device number	-	Fix all equipment as (FFh).
	Sender device type	-	Fix ELSGW as (01h).
	Sender device number	-	Set the bank number corresponds to "Pilot number".
Data	Elevator car number	Select from menu	
	Car position(Arrive)	Select item	
	Car position(Display)	Select item	
	UP direction	Select item	
	DN direction	Select item	
	Cancel	Select item	
	Front	UP arrive	Select item
		DN arrive	Select item
		Door status	Select from menu
	Rear	UP arrive	Select item
		DN arrive	Select item
		Door status	Select from menu

⑦ Elevator → Equipment (General packet)

- This function is activated when ☒ Effective button is checked.

Verification acceptance data Elevator operation status Elevator's call Info Smartphone Info General Packet

☒ Effective

Bank01 Bank02 Bank03 Bank04

Communication Type: Unicast IP: 192.168.0.100 <-- 192 . 168 . 0 . 100

Packet header

Address device type: [E0]OPTION\_01

Address device number: 1

Sender device type: 01

Sender device number: ☒ Auto

Packet data

+0	+1	+2	+3	+4	+5	+6	+7	+8
01	02	03						

V clear

Interval(msec): 1000

☐ Continuous

Send

- Set cycle sending (Set [Setting range:100msec - 60sec] for "Interval"), and check "Continuous" to send continuously. To end the cycle sending, remove the check for "Continuous".
- "General packet" data is sent by pressing "Send" button.

Table 8-16 General packet

Items		Operation	Remarks
IP		Select "Communication type" and set IP address. Press <--	
Header	Address device type	Select from menu	
	Address device number	Select from menu	
	Sender device type	-	Set ELSGW as (01h).
	Sender device number	-	Set the bank number corresponds to "Pilot number".
Data	Packet data	Input data and press V button to set. To clear the data, press clear button.	



⑧ Start (Stop)/Exit

- Start (Stop) ▪ ▪ ▪ Start (or stop ) the ELSGW emulator.
- When activating the ELSGW emulator for the first time, press “Allow access” button in the following screen.



Figure 20 Firewall setting

- If the IP address for the PC is no set, “Network setting Error “message is popped up when pressing “start”.

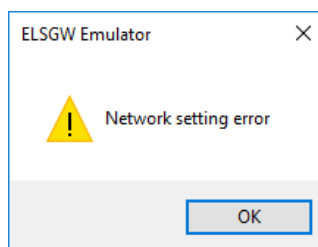



Figure 21 Network setting error

- Exit ▪ ▪ ▪ Exit the ELSGW emulator.

⑨ Transmission data(Receive)

Table 8-17 List of display

Items	Display details	Remarks
Date	Date of PC.	
Time	Time of PC.	
From(SrcPort)	Sender IP address. () indicates the sender port number.	* The sender port number is displayed in UDP header format. * If the sender port number is other than 52000,  mark is displayed in transmission data (receive). If displayed, refer to “9. Troubleshooting”
To(DstPort)	Sender IP address. () indicates the destination port number.	* The address port number is displayed in UDP header format.
Sender[No]	Name of “sender device type”. [] indicates “sender device number”. * If “sender device type” is ELSGW and “sender device number” is 01-32, add “Bank” at the top. e.g.)ELSGW[Bank01]	
Address[No]	Name of “address device type”. [] indicates “address device number”. * If “address device type” is ELSGW and “address device number” is 01-32, add “Bank” at the top. e.g.)ELSGW[Bank01]	
Command	Name of command No.	
Transmission data	Details of transmission data.	

- If the received data is unusual, background of the data is colored in red.
- Double-click a received data to show details.  
(Check each data and if there are some problem, background of the data is colored in red.)
- The background color of a command for verification is highlighted in blue.
- The latest data is displayed on the first line, and data is deleted from the oldest data when it exceeds 5,000 lines.
- The transmission data (received) field is enlarged as enlarging the screen size.
- PC time is applied for sending/receiving time. Display style is set as “Windows”.

Table 8-18 Time display

Windows	Display
English (U.K.)	dd:mm:yyyy hh:mm:ss
English (U.S.)	mm:dd:yyyy hh:mm:ss
Japanese	yyyy:mm:dd hh:mm:ss

⑩ Command filter

- Remove the command check to set not to output to the display screen.
- The background of the data is adjustable. (Use "INI file")  
The "Color palette" starts by pressing "Color" button.
- Above settings return to the default settings when restarting, so settings are required every start time.

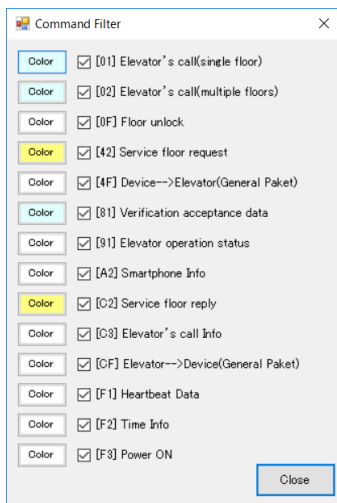


Figure 22 Command filter screen

⑪ Clear data

- Clear the data and the counter in display area.

⑫ Load data

- Load the saved data and display in the “Transmission data (Receive)”.
- Check whether the first line has correct file style.  
(e.g. check [hh:mm:ss] is on the first line.)
- Specify the file to be loaded in the dialog.
- The following screen is popped up when the loading file is failed.

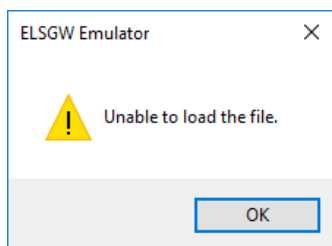


Figure 23 loading failed

⑬ Save data

- Save the received data shown in the display area in the file.
- Use CSV format when saving and its extension is “txt”.
- The saved file location is specified in the dialog.
- The warning message is popped up when the file already exists.
- The following message is displayed when the fail saving is failed.

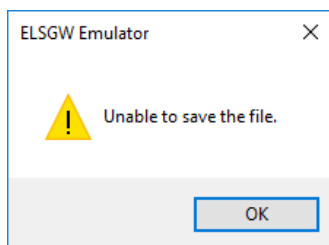


Figure 24 File saving failed

- The following information is on the first line when saving file.  
[yyyy/mm/dd] [hh:mm:ss] \*File name style is Windows setting.

⑭ Transmission data (Send)

- Same as “Transmission data (Receive)”.

⑮ ELSGW number information

- Setting of pilot number (1-8).

e.g.) Pilot number is 1 ..... Bank number is 01-04.

Pilot number is 2 ..... Bank number is 05-08.

\*The pilot number is fixed due to extension function. Change the (Valid/Invalid) with INI file. (Default setting is invalid.)

- Setting of elevator bank “Valid/Invalid”. (Remove the check for “Effective”.)

\*only the first bank is valid at start-up.

- Bank number corresponds to pilot number is displayed and the tab name is changed accordingly.

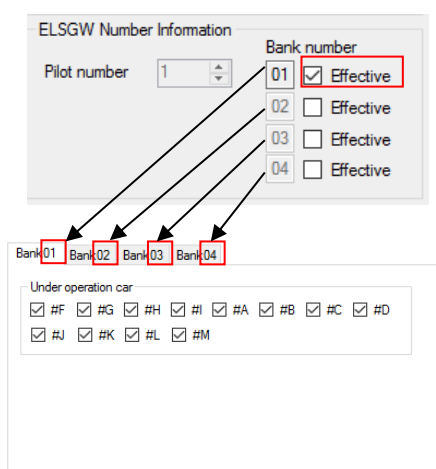


Figure 25 ELSGW number information

⑯ Counter

- Display the number of the received data.

⑰ Detail data

- Display the transmission data list.
- Unusual data is highlighted in red.
- The following screen is popped up when analysis cannot be made due to command error.

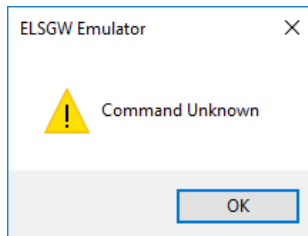


Figure 25 Command error

- The following screen is popped up when analysis cannot be made due to mismatch of the data length with actual data.

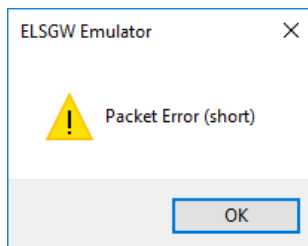


Figure 26 Data length > Actual data

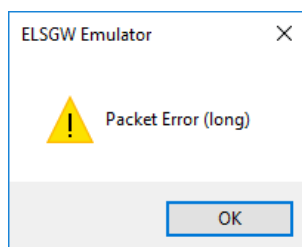
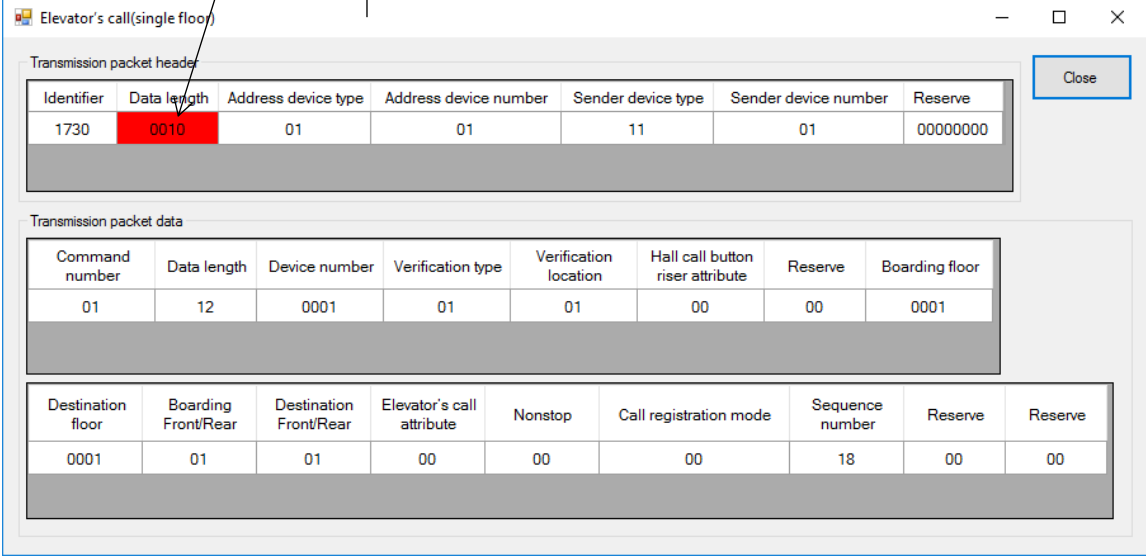


Figure 27 Data length < Actual data

### 8. 3. 1. Detail screen

#### 8.3.1.1. Elevators call data (Single floor)

Unusual data is highlighted in red



The screenshot shows a window titled 'Elevator's call(single floor)' with a 'Close' button. It contains two tables: 'Transmission packet header' and 'Transmission packet data'.

**Transmission packet header**

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0010	01	01	11	01	00000000

**Transmission packet data**

Command number	Data length	Device number	Verification type	Verification location	Hall call button riser attribute	Reserve	Boarding floor
01	12	0001	01	01	00	00	0001

Destination floor	Boarding Front/Rear	Destination Front/Rear	Elevator's call attribute	Nonstop	Call registration mode	Sequence number	Reserve	Reserve
0001	01	01	00	00	00	18	00	00

Figure 29 Elevators call data (Single floor)

### 8.3.1.2. Elevators call data (Multiple floors)

Elevator's call(multiple floors)
Close

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	003C	01	01	11	01	00000000

Transmission packet data

Command number	Data length	Device number	Verification type	Verification location	Hall call button riser attribute	Reserve	Boarding floor
02	37	0001	01	01	00	00	0001

Reserve	Boarding Front/Rear	Reserve	Elevator's call attribute	Nonstop	Call registration mode	Sequence number	Front destination floor data	Rear destination floor data
0000	01	00	00	00	00	16	20	05

Front destination floor

ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX
+00	8	7	6	5	4	3	2	1	00
+01	16	15	14	13	12	11	10	9	00
+02	24	23	22	21	20	19	18	17	00
+03	32	31	30	29	28	27	26	25	00
+04	40	39	38	37	36	35	34	33	40
+05	48	47	46	45	44	43	42	41	00
+06	56	55	54	53	52	51	50	49	04
+07	64	63	62	61	60	59	58	57	00
+08	72	71	70	69	68	67	66	65	40
+09	80	79	78	77	76	75	74	73	00
+10	88	87	86	85	84	83	82	81	00
+11	96	95	94	93	92	91	90	89	00

Rear destination floor

ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX
+00	8	7	6	5	4	3	2	1	00
+01	16	15	14	13	12	11	10	9	08
+02	24	23	22	21	20	19	18	17	00
+03	32	31	30	29	28	27	26	25	00
+04	40	39	38	37	36	35	34	33	40

Padding  
000000

The set data is highlighted in yellow.

Figure 30 Elevators call data (Multiple floors)

### 8.3.1.3. Heartbeat data

Heartbeat data
Close

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	FF	FF	11	01	00000000

Transmission packet data

Command number	Data length	Having data towards elevator system	Data1	Data2	Reserve	Reserve	Reserve
F1	06	00	00	00	00	00	00

Figure 28 Heartbeat data



#### 8.3.1.4. Verification acceptance data

Verification acceptance data

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	11	01	01	01	00000000

Transmission packet data

Command number	Data length	Device number	Acceptance status	Assigned elevator car number	Sequence number	Reserve
81	06	0001	00	01	15	00

Figure 29 Verification acceptance data

#### 8.3.1.5. Elevator operation status

Elevator operation status

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	FF	FF	01	01	00000000

Transmission packet data

Command number	Data length	Under operation Car#1	Under operation Car#2	Reserve	Reserve	Reserve	Reserve
91	06	FF	0F	00	00	00	00

Figure 30 Elevator operation status

#### 8.3.1.6. Floor unlock

Floor unlock

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	01	01	12	01	00000000

Transmission packet data

Command number	Data length	Device Number	Continuous Unlock status	Urgent Unlock status	Reserve	Reserve
0F	06	0000	00	00	00	00

Figure 31 Floor unlock

### 8.3.1.7. Time information

The 'Time Info' window displays the following data:

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	FF	FF	01	01	00000000

Command number	Data length	Year	Month	Day	Hour	Minute	A day of the week
F2	06	17	12	25	15	27	01

Figure 32 Time information

### 8.3.1.8. Power on

The 'Power ON' window displays the following data:

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	FF	FF	01	01	00000000

Command number	Data length	Device type	Elevator car number	Reserve	Padding
F3	03	01	FF	00	000000

Figure 33 Power on

### 8.3.1.9. Service floor request

Service floor request

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0020	01	01	12	01	00000000

Close

Transmission packet data

Command number	Data length	Sub command	Service kind	Elevator car number	Reserve	Reserve
42	1E	01	01	01	00	00

Front/Rear	Reserve	Sequence number	Floor data length	Reserve
01	00	23	0A	00

Set floor data

ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX
+00	8	7	6	5	4	3	2	1	00
+01	16	15	14	13	12	11	10	9	00
+02	24	23	22	21	20	19	18	17	00
+03	32	31	30	29	28	27	26	25	00
+04	40	39	38	37	36	35	34	33	00
+05	48	47	46	45	44	43	42	41	00
+06	56	55	54	53	52	51	50	49	12
+07	64	63	62	61	60	59	58	57	00
+08	72	71	70	69	68	67	66	65	00
+09	80	79	78	77	76	75	74	73	10

Effective floor data

ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX
+00	8	7	6	5	4	3	2	1	00
+01	16	15	14	13	12	11	10	9	00
+02	24	23	22	21	20	19	18	17	00
+03	32	31	30	29	28	27	26	25	00
+04	40	39	38	37	36	35	34	33	20
+05	48	47	46	45	44	43	42	41	00
+06	56	55	54	53	52	51	50	49	00
+07	64	63	62	61	60	59	58	57	00
+08	72	71	70	69	68	67	66	65	00
+09	80	79	78	77	76	75	74	73	00

Padding

The set data is highlighted in yellow.

Figure 34 Service floor request

### 8.3.1.10. Service floor reply

Service floor reply

Transmission packet header

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	12	01	01	01	00000000

Close

Transmission packet data

Command number	Data length	Sequence number	Reserve	Reserve	Padding
C2	03	23	00	00	000000

Figure 35 Service floor reply

### 8.3.1.11. Elevator's call info

The screenshot shows a window titled "Elevator's call Info" with a "Close" button. It contains two main sections: "Transmission packet header" and "Transmission packet data".

**Transmission packet header**

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0014	11	FF	01	01	00000000

**Transmission packet data**

Command number	Data length	Sub command	Direction	Elevator car number	Elevator's call attribute	Reserve
C3	11	01	01	01	00	00

Deck	Reserve	Reserve	Front floor data length	Rear floor data length
00	00	00	04	03

**Front floor data**

ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX
+00	8	7	6	5	4	3	2	1	08
+01	16	15	14	13	12	11	10	9	04
+02	24	23	22	21	20	19	18	17	10
+03	32	31	30	29	28	27	26	25	80

**Rear floor data**

ofs	D7	D6	D5	D4	D3	D2	D1	D0	HEX
+00	8	7	6	5	4	3	2	1	08
+01	16	15	14	13	12	11	10	9	80
+02	24	23	22	21	20	19	18	17	10

Padding: 00

The set data is highlighted in yellow.

Figure 36 Elevator's call info

### 8.3.1.12. Smartphone info

The screenshot shows a window titled "Smartphone Info" with a "Close" button. It contains two main sections: "Transmission packet header" and "Transmission packet data".

**Transmission packet header**

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	22	FF	01	01	00000000

**Transmission packet data**

Command number	Data length	Elevator car number	Car position (Arrive)	Car position (Display)	Arrive check1	Arrive check2	Reserve
A2	06	01	01	01	00	00	00

Figure 37 Smartphone info

### 8.3.1.13. Device → Elevator (General packet)

The screenshot shows a window titled "Device-->Elevator(General Paket)" with a "Close" button. It contains two main sections: "Transmission packet header" and "Transmission packet data".

**Transmission packet header**

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0014	01	01	E0	01	00000000

**Transmission packet data**

Command number	Data length
4F	11

Below the command table is a large table with 9 columns labeled +0 to +8 and a "Padding" column. The data is as follows:

+0	+1	+2	+3	+4	+5	+6	+7	+8	Padding
01	02	03	04	05	06	07	08	09	00
0A	0B	0C	0D	0E	0F	10	11		

Figure 38 Device → Elevator (General packet)

### 8.3.1.14. Elevator → Device (General packet)

The screenshot shows a window titled "Elevator-->Device(General Paket)" with a "Close" button. It contains two main sections: "Transmission packet header" and "Transmission packet data".

**Transmission packet header**

Identifier	Data length	Address device type	Address device number	Sender device type	Sender device number	Reserve
1730	0008	E0	01	01	01	00000000

**Transmission packet data**

Command number	Data length
CF	03

Below the command table is a large table with 9 columns labeled +0 to +8 and a "Padding" column. The data is as follows:

+0	+1	+2	+3	+4	+5	+6	+7	+8	Padding
01	02	03							000000

Figure 39 Elevator → Device (General packet)

#### 8.4. INI file

INI file is determined as shown in the following table. INI file name is ELSGW.ini”.

	Items	Group key	Detail key	Value(Default)
1	UDP setting	UDP_SETTING	UDP_PORT	52000
			MULTICAST_ELE	239.64.0.1
			MULTICAST_SECU	239.64.0.2
			MULTICAST_DISP	239.64.0.3
			MULTICAST_OPTION	239.64.0.15
			BROADCAST	255.255.255.255
2	Verification acceptance (Acceptance status)	CMB_ACCEPT_STATUS	Automatic registration of elevator's call	0x00
			Unlock restriction	0x01
			Cannot register elevator's call	0xFF
3	Verification acceptance (Assigned car number)	CMB_ASSIGNED_ELE_NUM	#F	0x01
			#G	0x02
			#H	0x03
			#I	0x04
			#A	0x05
			#B	0x06
			#C	0x07
			#D	0x08
			#J	0x09
			#K	0x0A
			#L	0x0B
			#M	0x0C
			No assigned elevator car	0xFF
4	Elevator's call infor (Direction)	CMB_ELECALL_DIR	UP	0x01
			DN	0x02
			ALL	0xFF
5	Elevator's call info (Car number)	CMB_ELECALL_ELE_NUM	#F	0x01
			#G	0x02
			#H	0x03
			#I	0x04
			#A	0x05
			#B	0x06
			#C	0x07
			#D	0x08
			#J	0x09
			#K	0x0A
			#L	0x0B
			#M	0x0C
			ALL	0xFF
6	Elevator's call info (Call attribute)	CMB_ELECALL_ATTRIBUTE	NORMAL	0x00
			HANDICAP	0x01
			ALL	0xFF
7	Elevator's call info (Lower car/Upper car)	CMB_ELECALL_DECK	ALL	0x00
			LOWER	0x01
			UPPER	0x02
8	Smartphone info (Doors closed)	CMB_SMART_DOOR_STATE	FULL CLOSE	0x00
			OPENING	0x01
			FULL OPEN	0x02
			CLOSING	0x03
9	Heartbeat sending cycle(msec)	HEART_BEAT	INTERVAL	15000
10	Elevator operation status sending cycle(msec)	ELE_STATE	INTERVAL	5000
11	Elevator's call information sending cycle(msec)	ELE_CALL_INFO	INTERVAL	5000
12	Smartphone info sending cycle(msec)	SMARTPHONE_INFO	INTERVAL	5000
13	Elevator → Equipment (general packet) sending cycle (msec)	GENERAL_PKT	INTERVAL_DEF (Default value)	1000
			INTERVAL_MIN (Minimum value)	100
			INTERVAL_MAX (Maximum value)	60000
14	Update monitor cycle (msec)	UPDATE_MONITOR	INTERVAL	200

15	Device type		DEVICE_TYPE	ELSGW	0x01
				SEAC	0x11
				SCPC	0x12
				DC	0x21
				SMARTPHONE	0x22
				OPTION_01	0xE0
				OPTION_02	0xE1
				OPTION_03	0xE2
				OPTION_04	0xE3
				OPTION_05	0xE4
				OPTION_06	0xE5
				OPTION_07	0xE6
				OPTION_08	0xE7
				OPTION_09	0xE8
				OPTION_10	0xE9
				OPTION_11	0xEA
				OPTION_12	0xEB
				OPTION_13	0xEC
				OPTION_14	0xED
				OPTION_15	0xEE
				OPTION_16	0xEF
16	Sender device number		SEAC_NUMBER	MIN	1
				MAX	127
			SCPC_NUMBER	MIN	1
				MAX	8
17	Command		COMMAND	Elevator's call(single floor)	0x01,0xE0FFFF *Command, RGB RGB not specified =White
				Elevator's call(multiple floors)	0x02,0xE0FFFF
				Floor unlock	0x0F
				Service floor request	0x42,0xFFFF80
				Device-->Elevator(General Packet)	0x4F
				Verification acceptance data	0x81
				Elevator operation status	0x91
				Smartphone Info	0xA2
				Service floor reply	0xC2,0xFFFF80
				Elevator's call Info	0xC3
				Elevator-->Device(General Packet)	0xCF
				Heartbeat Data	0xF1
				Time Info	0xF2
				Power ON	0xF3
18	Terminal number		DEVICE_NUMBER	MIN	0
				MAX	9999
19	Verification type		VERIFY_TYPE	HALL	1
				CAR	2
20	Verification location/ Car number	Hall	VERIFY_LOCATION_HALL	HALL	1
				ENTRANCE	2
				LIVING	3
				GATE	4
		Car	VERIFY_LOCATION_CAR	#F	1
				#G	2
				#H	3
				#I	4
				#A	5
				#B	6
				#C	7
				#D	8
				#J	9
				#K	10
				#L	11
				#M	12
				#F(UPPER)	129
				#G(UPPER)	130

				#H(UPPER)	131
				#I(UPPER)	132
				#A(UPPER)	133
				#B(UPPER)	134
				#C(UPPER)	135
				#D(UPPER)	136
				#J(UPPER)	137
				#K(UPPER)	138
				#L(UPPER)	139
				#M(UPPER)	140
21	Hall call button/ Car button attribute	Hall verification	CALL_BUTTON_HALL	NON	0
				A	1
				B	2
				C	3
				D	4
				E	5
				F	6
				G	7
				H	8
				I	9
				J	10
				K	11
				L	12
				M	13
				N	14
				O	15
				AUTO	16
		Car verification	CALL_BUTTON_CAR	FRONT	1
				FRONT_EX	2
				REAR	3
				REAR_EX	4
22	Boarding floor	Hall verification	BOARDING_FLOOR_HAL	MIN	1
				MAX	255
		Car verification	BOARDING_FLOOR_CAR	MIN	0
				MAX	0
23	Boarding F/R	Hall verification	BOARDING_DOOR_HALL	FRONT	1
				REAR	2
		Car verification	BOARDING_DOOR_CAR	CAR	0
24	Destination floor		DST_FLOOR	MIN	1
				MAX	255
25	Destination F/R		DST_DOOR	FRONT	1
				REAR	2
26	Call attribute		CALL_ATTRIBUTE	NORMAL	0
				HANDICAP	1
				VIP	2
				MANAGER	3
				RESERVE1	4
				RESERVE2	5
			CALL_ATTRIBUTE_BIT	MIN	129
				MAX	159
27	Nonstop		NON_STOP	OFF	0
				ON	1
28	Call registration mode	Hall verification	CALL_REGST_MODE_HALL	Automatic setting	0
				Unlock(Hall)call	1
				Unlock(Hall/Car)call	2
				Auto(Hall)call	3
				Auto(Hall)call+Unlock(Car)call	4
				Auto(Hall/Car)call	5
				Reserve	6
				Reserve	7
		Car verification	CALL_REGST_MODE_CAR	Automatic setting	0
				Unlock(Car)call	1
				Auto(Car)call	2
				Reserve	3



			Reserve	4
			Reserve	5
			Reserve	6
			Reserve	7
29	F destination floor data length	FRONT_DST_FLOOR_LEN	MIN	0
			MAX	32
30	R destination floor data length	REAR_DST_FLOOR_LEN	MIN	0
			MAX	32
31	Data to Elevator	TO_ELE_DATA	Without data	0
			With data	1
32	Continuous unlock	CONTINUOUS_LOCK	Lock	0
			UnLock	1
33	Urgent unlock	URGENT_LOCK	Lock	0
			UnLock	1
34	Service floor request (Service floor type)	SERV_FLR_KIND	HALL(UP)	1
			HALL(DN)	2
			HALL(UP+DN)	3
			CAR	4
			HALL+CAR	7
35	Service floor request (Car number)	SERV_FLR_ELE_NUM	#F	1
			#G	2
			#H	3
			#I	4
			#A	5
			#B	6
			#C	7
			#D	8
			#J	9
			#K	10
			#L	11
			#M	12
			ALL	255
36	Service floor request (Front/Rear)	SERV_FLR_SIDE	FRONT	1
			REAR	2
			FRONT+REAR	3
37	Service floor request (Floor data length)	SERV_FLR_FLOOR_LEN	MIN	0
			MAX	32
38	ELSGW information	ELSGW_INFO	Title TITLE	ELSGW Emulator V1.03
			ELSGW unit number change (Valid/Invalid) PILOT_EFFECTIVE	0:invalid (default) 1:valid
			Elevator operation status IP ELE_OPERATE_STA_IP	BROADCAST *Setting Detail key of "UDP_SETTING"
			Verification acceptance data sender IP VERIFICATION_ACCEPT_IP	192.168.0.100 *Setting DC's default IP
			Own sent broadcast data display MY_BROADCAST_DISP	0:hide (default) 1:display
			Verification acceptance data (Full Auto) select button (Valid/Invalid) VERIFICATION_FULLAUTO	0:invalid 1:valid (default)
			Verification acceptance data (Automatic reply) select button (Valid/Invalid) VERIFICATION_AUTOREPLY	0: invalid (default) 1:valid
			Verification acceptance data (Manual reply) Select button (Valid/Invalid) VERIFICATION_MANUALREPLY	0: invalid (default) 1:valid
			Elevator operation status (Full Auto) Select button (Valid/Invalid) ELE_OPE_FULLAUTO	0: invalid / 1: valid (default)
			Elevator operation status (Manual) Select button (Valid/Invalid) ELE_OPE_MANUAL	0:invalid (default) 1:valid

			Respond to the sender port number (Valid/Invalid) DESTINATION_SEND_PORT	0:invalid 1:valid(default) *Respond to UDP_PORT when "0".
			Elevator's call info (Full Auto) select button (Valid/Invalid) ELE_CALL_INFO_FULLAUTO	0:invalid 1:valid(default)
			Elevator's call info (Manual) select button (Valid/Invalid) ELE_CALL_INFO_MANUAL	0:invalid (default) 1:valid
			Smartphone info (Full Auto) select button (Valid/Invalid) SMARTPHONE_INFO_FULLAUTO	0:invalid 1:valid(default)
			Smartphone info (Manual) select button (Valid/Invalid) SMARTPHONE_INFO_MANUAL	0:invalid 1:valid(default)
			Time information (Valid/Invalid) TIME_INFO_EFFECTIVE	0:invalid (default) 1:valid

## 9. Troubleshooting

Trouble	Countermeasure
Send/Receive data function is not working by pressing "Start" button.	Check if SEAC/DC equipment power is ON and ready to connect with ELSGW emulator.
	Check if ELSGW emulator is connected with SEAC/DC equipment with LAN cable and HUB power is ON if the HUB is connected.
	Check if IP address, Subnet mask, and Default gateway of PC for ELSGW emulator are the same settings as network settings for the ELSGW. [NOTE] Confirm the method of network settings according to PC's OS version.
	Check if SEAC/DC equipment is connected by starting up the command prompt in startup menu and using "ping" command . e.g.) When connecting IP address of SEAC/DC is "192.168.0.100, execute "ping 192.168.0.100". In case of Timeout due to no response, check LAN cable connection and network settings.
SEAC sends "Elevator's call data (Single floor/Multiple floors)", however, cannot receive the "Verification acceptance data".	Check if Elevator's call data has no error.
	Check if "Address device number" specified by SEAC is correct. When correct, check the specified BANK No. is valid.
	Check if IP address is correct when "verification acceptance data" setting is other than "FULL Auto". Check if SEAS/DC joins Multicast board when multicast address is selected.
When sending "Service floor I request" form SMARTPHONE, cannot receive the "Service floor response".	Check if "Service floor request" data has no error.
	Check if "Address device number" is correct specified by SMARTPHONE. When correct, check the specified BANK No. is valid.
	Check if IP address is correct when "service floor response" setting is other than "Full Auto". Check if SMARTPHONE equipment joins Multicast board when multicast address is selected.
A received data background is highlighted in red.	A received data has error. Check the details by double-clicking the line.
A detail data background is highlighted in red.	A detail data has error. Check the communication specs and to see if it's correct.
A detail data screen shows nothing and displays "Command Unknown".	Check if the command is correct.
A detail data screen shows nothing and displays "Packet Err(short)".	In this case, the actual data is shorter than each set data length below. Check each data length is correct. <ul style="list-style-type: none"> <li>• "Header" data length</li> <li>• "Data" data length</li> <li>• Front destination floor data length (Elevator's call data (multiple floors) only)</li> <li>• Rear destination floor data length (Elevator's call data (multiple floors) only)</li> </ul>
A detail data screen shows nothing and displays "Packet Err(long)".	In this case, the actual data is longer than each set data length below. Check each data length is correct. <ul style="list-style-type: none"> <li>• "Header" data length</li> <li>• "Data" data length</li> <li>• Front destination floor data length (Elevator's call data (multiple floors) only)</li> <li>• Rear destination floor data length (Elevator's call data (multiple floors) only)</li> </ul>
❗ Mark is displayed next to "From(SrcPort)" address and when mouse-over❗, "Please confirm that the source port is correct" is displayed.	The sender port number of UDP header format is set other than (52000), so check if it is all right.

## 10. Revision history

Tool version	Revision	Remarks
ELSGW_Emulator V1.00	▪ First issue	
ELSGW_Emulator V1.01	▪ Fixed the problem rarely displays the background in red despite receiving the correct data.	
ELSGW_Emulator V1.02	▪ Fixed the problem displays background of the data to/from DC in red.	
ELSGW_Emulator V1.03	▪ Fixed the problem not to able to respond to the sender of packet data. *Before fixing, the port No. was fixed in "52000". (to correspond with ELSGW real operation)	
ELSGW_Emulator V1.04	▪ Added SCPC function. ▪ Added BM cooperative function ▪ Added smartphone integrated function. ▪ Added command filter function	
ELSGW_Emulator V1.05	▪ Added port number in data display area of send/receive data. ▪ Added check function of sender port number received from AC. ▪ Corrected the errors in the screen of elevator's call data (Multiple floors).	