

# Web Server Function User's Manual

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Software Control Web Creator

[Applicable models]

Programmable Controller: FP7

EcoLogiX Control Unit: ELC500

Eco-POWER METER: KW2M-X

(MEMO)

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## Introduction

Thank you for purchasing a Panasonic product. Before you use the product, please carefully read through the user's manual, and understand it in detail to use the product properly.

## Product Configuration of Web Server Function and Precautions for Use

### 1. Web server function

The following contents can be monitored in a browser.

**Customer Web:** Contents that customers create using the Software Control Web Creator can be uploaded.

**FP7 System Web:** The FP7 system web is a content prepared for the FP7 CPU unit as standard.

- For using the Web server function, use the following versions. (Content capacity: 6.86 MB)
  - FP7 CPU unit: Ver.3.30 or later
  - ELC500: All versions
  - KW2M-X: All versions
  - Software Control Web Creator: Ver.2.0.0 or later
  - FPWIN GR7: Ver.2.6 or later
  - FPWIN Pro7: Ver.7.11 or latter
- For using 13.83 MB as the content capacity, it is necessary to update the software programs to the following versions.
  - FP7 CPU unit: Ver.4.10 or later (with EtherNet/IP) / Ver.3.40 or later (without EtherNet/IP)
  - Software Control Web Creator: Ver.2.0.0 or later

\* If any of the above conditions is not met, the allowable content capacity is up to 6.86 MB.

### Info.

- About version of FP7 CPU unit:  
There are two types of FP7 CPU firmware and the versions of the firmware types are as follows.
  - Without EtherNet/IP (part no. that does not include E): Ver.3.\*\*
  - With EtherNet/IP (part no. that includes E): Ver.4.\*\*

### 2. Software Control Web Creator

This is software for creating, saving, uploading, and downloading contents of the customer Web.

#### **Precautions for use**

- **For using the Software Control Web Creator, it is necessary to insert the key unit (AFPSWCKEY) to a PC.**
- **If the key unit is not inserted, the Software Control Web Creator cannot be started and used.**
- **The Software Control Web Creator cannot be started from the remote drive.**
- **The Software Control Web Creator can be activated with Windows 7/8/10/11 (32-bit/64-bit) only.**
- **For uploading data to the Web server or testing, connect it to the FP7, ELC500, and KW2M-X using Ethernet.**

- Use a cross cable for connecting them directly, and use a straight/cross cable for connecting them via a hub.
- Avoid conflict with the communication of FPWIN GR7.
- When uploading/downloading to the Web server, the default is the port 32769 of the system connection.

### **Web browsers accessible to the Web server**

OS	Supported browser
Windows	<ul style="list-style-type: none"> <li>● Google Chrome</li> <li>● Mozilla Firefox</li> <li>● Opera</li> <li>● Microsoft Edge</li> </ul>
macOS	<ul style="list-style-type: none"> <li>● Safari</li> <li>● Google Chrome</li> <li>● Mozilla Firefox</li> </ul>
iOS	<ul style="list-style-type: none"> <li>● Safari</li> <li>● Google Chrome</li> </ul>
Android	<ul style="list-style-type: none"> <li>● Google Chrome</li> </ul>

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## **Precautions for Using Network Function**

### **■ Precautions concerning network**

There is the risk of suffering following damage as this unit can be used connecting to the network with the Web server function or FTP server function.

1. Information leakage through this unit
2. Illegal operations of this unit by a malicious third party
3. Obstructing or stopping this unit by a malicious third party

Sufficient network security measures should be taken using the system configuration as follows at your own risk to prevent such damages.

### **■ Recommended network topology**

It should be the connection system using a local IP address on a dedicated line network (including a virtual network).

Use SSL communication between a browser and the FP7 / ELC500 Web server to enhance security more. For making the SSL setting, upload the server certificate to the FP7 and ELC500.

For details of the setting method, refer to "[5.8 Server Certificate Setting](#)".

### **■ Using SSL communication**

When using the SSL communication for accessing the FTP server or Web server of the FP7 and ELC500, use the products of the following versions.

- FP7 CPU unit: Ver.4.10 or later (with EtherNet/IP) / Ver.3.40 or later (without EtherNet/IP)

- ELC500: All versions
- Software Control Web Creator: Ver.2.0.0 or later

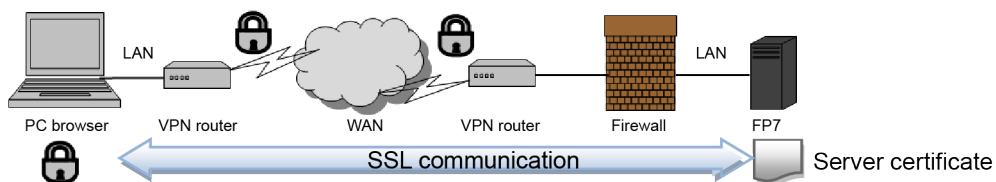
■ **For using VPN (Virtual Private Network) / dedicated line network (Private Network)**

1. For using VPN (Virtual Private Network)

Install the FP7, ELC500, and KW2M-X under the environment in which a virtual dedicated line network is built via WAN.

It is recommended to use the FP7, ELC500, and KW2M-X through a FW (firewall).

Furthermore, it is recommended to use the SSL communication for the FP7 and ELC500.

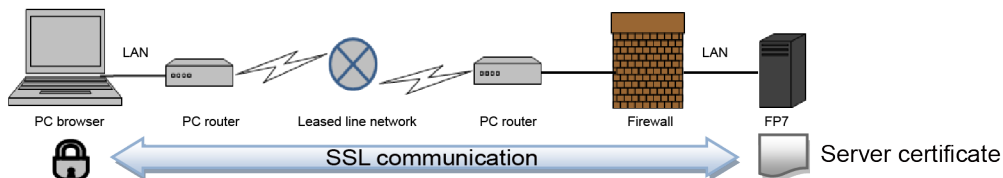


2. For using dedicated line network (Private Network)

Install the FP7, ELC500, and KW2M-X under the environment in which a dedicated line network is built.

It is recommended to use the FP7, ELC500, and KW2M-X through a FW (firewall).

Furthermore, it is recommended to use the SSL communication for the FP7 and ELC500.



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# 1 Web Server Function

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## 1.1 Overview of Web Server Function

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### 1.1 Overview of Web Server Function

#### 1.1.1 Web Server Function Types

The following two types of Web server functions are available.

##### ■ Customer Web

Screen (contents) designed by the Software Control Web Creator can be uploaded and monitored.

##### ■ FP7 System Web

This is a content stored in the FP7 CPU unit as a standard. It cannot be edited.

##### ■ Using web server function

For using the web server function, it is necessary to make the following settings by FPWIN GR7 or FPWIN Pro7.

- Setting the Add-on to "Use".
- Setting the Web Server function to "Use System Only", "Use Customer Only", or "Use System and Customer".
- Setting the time zone for the SNTP setting, e.g.: For Japan, +0900

#### 1.1.2 Web Server Function Performance

About the performance of the web server function

##### ■ Number of concurrent accesses

- Up to 16 sessions can be accessed simultaneously.

##### ■ Size of storable contents

- The size of storable contents by FP7 / ELC500 or KW2M-X is up to **13.83 MB**.
  - \* 13.83 MB = 14,503,936 bytes
- For using 13.83 MB as the content capacity for FP7 / ELC500 or KW2M-X, update the versions of various software to the following versions or later.
  - FP7 CPU unit: Ver.4.10 or later (with EtherNet/IP) / Ver.3.40 or later (without EtherNet/IP)
  - Software Control Web Creator: Ver.2.0.0 or later
- \* If any of the above conditions is not met, the allowable content capacity is up to 6.86 MB.
- For confirming the current content size, refer to ["5.15 Function for Confirming Content Size"](#).

## 2 Method of Connecting to Web Server

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## 2.1 Specification Method on Browser

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### 2.1 Specification Method on Browser

The web server uses port number 80. This port number cannot be changed.

"2.1.1 Method by specifying IP address" and "2.1.2 Method by Specifying Name (Server Name)" show methods for connecting to the web server.

#### 2.1.1 Method by specifying IP address

Specify the following addresses on the browser.

##### <For customer web>

- When Index.html (initial screen) exists in the customer web.

IP address

Example) 192.168.1.210

<http://192.168.1.210/cu/index.html> will be displayed

- When specifying the customer web URL

IP address/cu/sample.html

Example) 192.168.1.210/cu/sample.html

<http://192.168.1.210/cu/sample.html> will be displayed

##### <For FP7 system web>

- IP address/sys/

Example) 192.168.1.210/sys/

<http://192.168.1.210/sys/index.html> will be displayed

#### 2.1.2 Method by Specifying Name (Server Name)

1. Method of registering in Windows

Edit the file "hosts" under the folder "C:\Windows\System32\drivers\etc", and add an IP address and server name.

Example) Web server: 192.168.1.210

Add the next line at the bottom line of the file "hosts" and save.

192.168.1.210 www.fp7webserver.com # FP7 Server

\* Only the administrator can edit "hosts".

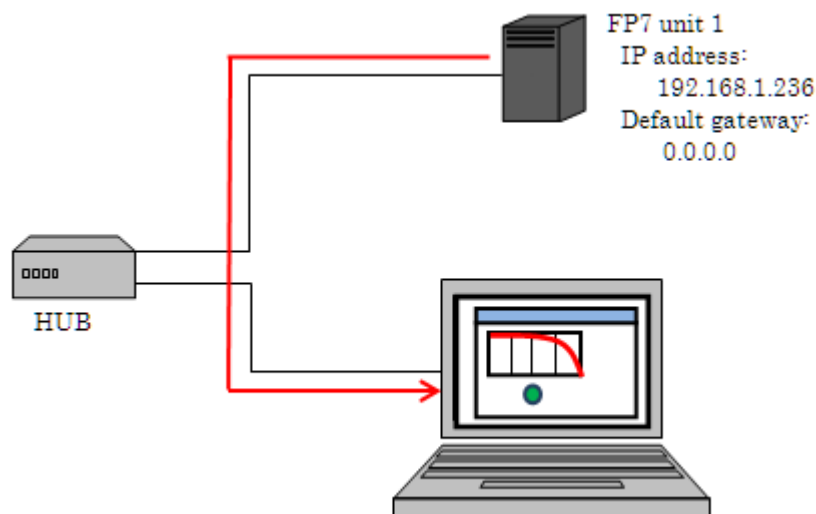
2. For using DNS

Example)<http://www.fp7webserver.com/cu/index.html>



## 2.2 Connecting via Local Network

### 2.2.1 Connecting to One FP7 / ELC500 / KW2M-X Unit

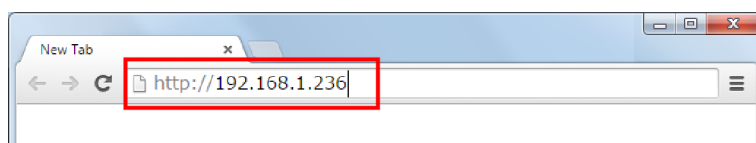


#### Example) When connecting to the FP7 unit 1 from browser via local network

[Preparation 1] Allocate IP addresses to the FP7 CPU units.  
Set the default gateway to "0.0.0.0".

#### [How to specify an address]

1. Specification method on a browser  
Specify the IP address of the FP7 CPU unit.



The web server for the FP7 CPU unit uses port number 80.  
It can be omitted when connecting with the port number 80.

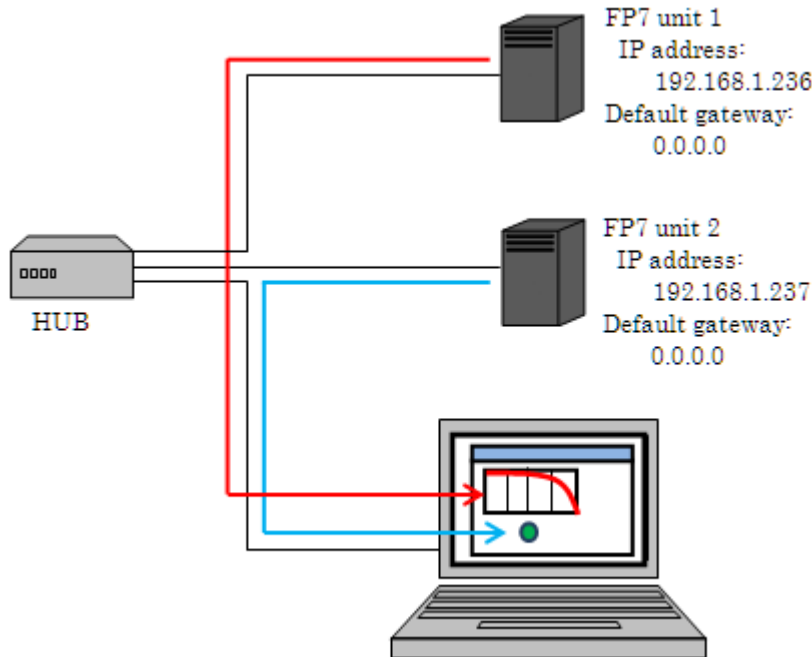
2. Host address setting for screen group, screen, and web parts  
When acquiring contents from the unit 1 and monitoring data of the unit 1 only, there is no need to change the default common setting of the host address referred by each screen group, screen, and web part.

## 2.2 Connecting via Local Network

### Setting example of a web part

common parameters	
device	
host address	Global settings
network protocol	Global settings
switch read device	type: Global
	device type: DT,n
	No.: 0
switch write device	type: Global
	device type: DT,n
	No.: 0

### 2.2.2 Connecting to Multiple FP7 / ELC500 / KW2M-X Units

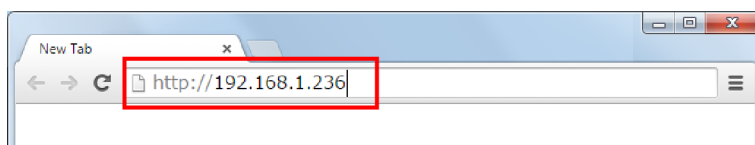


**Example)** When connecting to the FP7 CPU unit 1 from a browser and monitoring the FP7 CPU unit 2 from a web part displayed on the browser (This type of connection method is called a cross-domain connection.)

[Preparation 1] Allocate IP addresses to the FP7 CPU units.  
Set the default gateway to "0.0.0.0".

#### [How to specify an address]

1. Specification method on a browser  
Specify the IP address of the FP7 CPU unit.



2. Host address setting for screen group, screen, and web parts  
Set the IP address of the unit 2 to the host address of a web part connected to the FP7 CPU (unit 2).

### Setting example of a web part

#### ⊞ common parameters

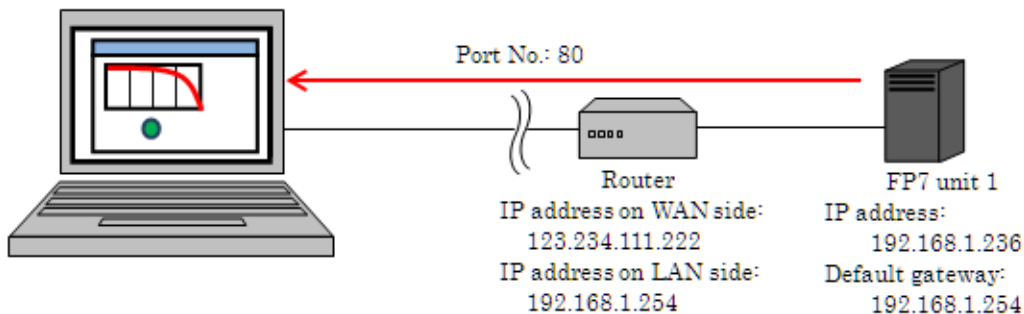
#### ⊞ device

host address	<input type="text" value="192.168.1.237"/>	IP address of the unit 2
network protocol	<input type="text" value="Global settings"/>	
lamp status	type	<input type="text" value="Global"/>
	device type	<input type="text" value="DT,n"/>
	No.	<input type="text" value="0"/>
lamp status mode	<input type="text" value="a"/>	

## 2.3 Connecting via Global Network

### 2.3 Connecting via Global Network

#### 2.3.1 Connecting to One FP7 / ELC500 / KW2M-X Unit (1)



#### Example) When connecting to the FP7 unit from browser via global network

[Preparation 1] Allocate IP addresses to the FP7 CPU units.

For the default gateway setting of the FP7, specify the IP address on a LAN side of a router which performs address conversion. Communication cannot be performed without this setting.

[Preparation 2] Set a broadband router.

- Use a router having the NAPT function of destination address.
- Set an IP address on a LAN side.
- Set an IP address on a WAN side. (Such as a global IP address or URL)
- The destination NAT table of the router is set as follows.  
Setting on WAN side    Setting on LAN side  
Port No. 80: IP address of FP7 CPU unit 1 + Port No. 80
- Concrete setting example

NAT Table

Group	IP address of WAN	Protocol		IP address of LAN	Port number of LAN
Group1	WAN IP address	HTTP(TCPPort:80)	←→	192.168.1.236	HTTP(TCPPort:80)



- Do not use the DMZ (demilitarized zone) setting for security reasons.

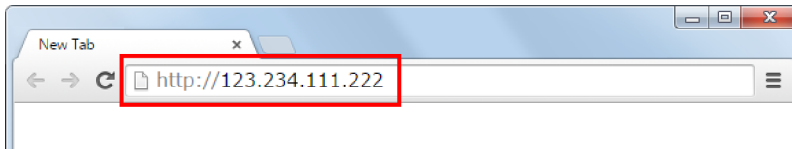
#### [How to specify an address]

1. Specification method on a browser (1)(Specifying an IP address)

An IP address on a WAN side of a router or a fixed private IP address of VPN is specified in the format of "IP address on WAN side of router: Port No."

Concrete example:

For connecting to the unit 1: IP address on the WAN side of the router



It can be omitted when connecting with the port number 80.

2. Specification method on a browser (2) (When using DNS)  
It is specified in the format of "URL of the router: Port No.".



It can be omitted when connecting with the port number 80.

3. Host address setting for screen group, screen, and web parts

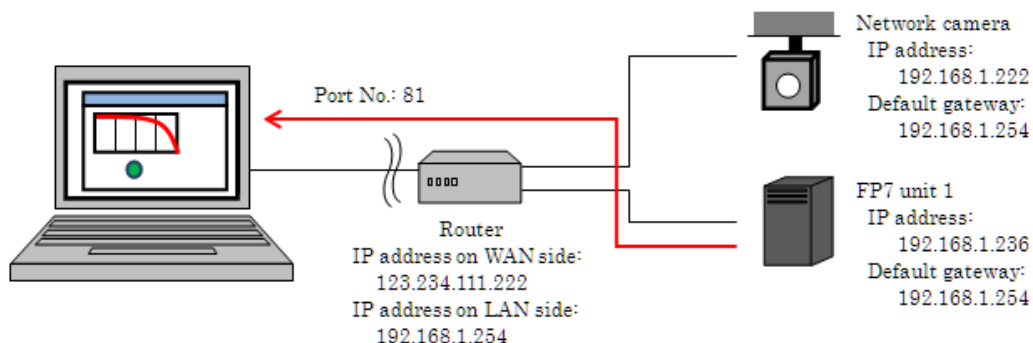
When acquiring contents from the unit 1 and monitoring data of the unit 1 only, there is no need to change the default common setting of the host address referred by each screen group, screen, and web part.

### Setting example of a web part

<input type="checkbox"/> <b>common parameters</b>	
<input type="checkbox"/> <b>device</b>	
host address	<input type="text" value="Global settings"/>
network protocol	<input type="text" value="Global settings"/> ▼
switch read device	type <input type="text" value="Global"/> ▼
	device type <input type="text" value="DT,n"/> ▼
	No. <input type="text" value="0"/>
switch write device	type <input type="text" value="Global"/> ▼
	device type <input type="text" value="DT,n"/> ▼
	No. <input type="text" value="0"/>

## 2.3 Connecting via Global Network

### 2.3.2 Connecting to One FP7 / ELC500 / KW2M-X Unit (2)



#### Example) When connecting to the FP7 unit using a port number other than 80

[Preparation 1] Allocate IP addresses to the FP7 CPU units.

For the default gateway setting of the FP7, specify the IP address on a LAN side of a router which performs address conversion. Communication cannot be performed properly without this setting.

[Preparation 2] Set a broadband router.

- Use a router having the NAPT function of destination address.
- Set an IP address on a LAN side.
- Set an IP address on a WAN side. (Such as a global IP address or URL)
- The destination NAT table of the router is set as follows.

Setting on WAN side    Setting on LAN side

Port No. 80: IP address of network camera + Port No. 80

Port No. 81: IP address of FP7 CPU unit 1 + Port No. 80

- Concrete setting example

NAT Table [?](#)

Group	IP address of WAN	Protocol		IP address of LAN	Port number of LAN
Group1	WAN IP address	HTTP(TCPPort:80)	←→	192.168.1.222	TCPPort:80
	WAN IP address	TCPPort:81	→	192.168.1.236	TCPPort:80

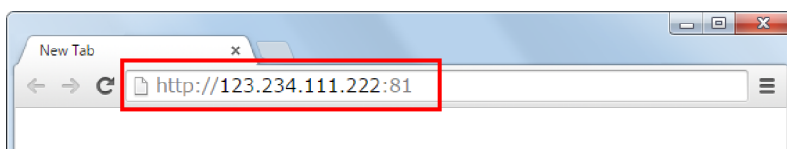
#### [How to specify an address]

1. Specification method on a browser (1) (Specifying an address)

An IP address on a WAN side of a router or a fixed private IP address of VPN is specified in the format of "IP address on WAN side of router: Port No.".

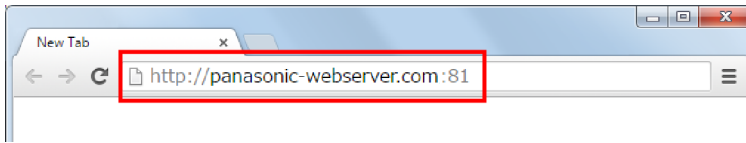
Concrete example:

For connecting to the unit 1: IP address on the WAN side of the router: 81



2. Specification method on a browser (2) (When using DNS)

It is specified in the format of "URL of the router: Port No.".



### 3. Host address setting for screen group, screen, and web parts

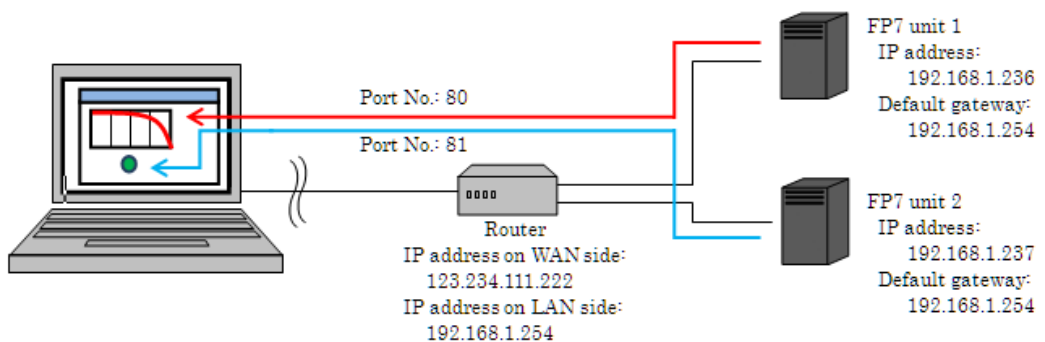
When acquiring contents from the unit 1 and monitoring data of the unit 1 only, there is no need to change the default common setting of the host address referred by each screen group, screen, and web part.

The address inherited in the common setting is the "Address on the WAN side: Port No." entered in the browser.

#### Setting example of a web part

+ common parameters		
- device		
host address	Global settings	
network protocol	Global settings	
switch read device	type	Global
	device type	DT,n
	No.	0
switch write device	type	Global
	device type	DT,n
	No.	0

### 2.3.3 Connecting to Multiple FP7 / ELC500 / KW2M-X Units



**Example) When connecting to the FP7 CPU unit 1 from a browser and monitoring the FP7 CPU unit 2 from a web part displayed on the browser**

[Preparation 1] Allocate IP addresses to the FP7 CPU units.

## 2.3 Connecting via Global Network

For the default gateway setting of the FP7, specify the IP address on a LAN side of a router which performs address conversion. Communication cannot be performed properly without this setting.

[Preparation 2] Set a broadband router.

- Use a router having the NAPT function of destination address.
- Set an IP address on a LAN side.
- Set an IP address on a WAN side. (Such as a global IP address or URL)
- The destination NAT table of the router is set as follows.

Setting on WAN side    Setting on LAN side

Port No. 80: IP address of FP7 CPU unit 1 + Port No. 80

Port No. 81: IP address of FP7 CPU unit 2 + Port No. 80

- Concrete setting example

NAT Table [?](#)

Group	IP address of WAN	Protocol		IP address of LAN	Port number of LAN
Group1	WAN IP address	HTTP(TCPPort:80)	←→	192.168.1.222	TCPPort:80
	WAN IP address	TCPPort:81	→	192.168.1.236	TCPPort:80

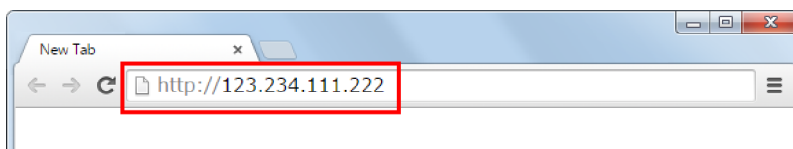
### [How to specify an address]

1. Specification method on a browser

An IP address on a WAN side of a router or a fixed private IP address of VPN is specified in the format of "IP address on WAN side of router: Port No."

Concrete example:

For connecting to the unit 1: IP address on the WAN side of the router



It can be omitted when connecting with the port number 80.

2. Host address setting for screen group, screen, and web parts

Set "IP address on the WAN side: Port No. registered in the NAT table" to the host address of a web part connected to the FP7 CPU (unit 2).

#### ⊕ common parameters

##### ⊖ device

host address	<input type="text" value="123.234.111.222:81"/>
network protocol	<input type="text" value="Global settings"/>
lamp status	type <input type="text" value="Global"/>
	device type <input type="text" value="DT,n"/>
	No. <input type="text" value="0"/>
lamp status mode	<input type="text" value="a"/>

IP address on the WAN side:  
Port No. registered in the NAT table





- When a test operation is performed by the Software Control Web Creator in a local environment, it cannot communicate with the unit 2 if the IP address on the WAN side is specified for the host address.
- For a test operation, set the host address to "IP address of the unit 2: Port No. 80".
- For details of the test method, refer to "[5.6.4 Screen Test](#)".

## 2.4 Connection Using SSL

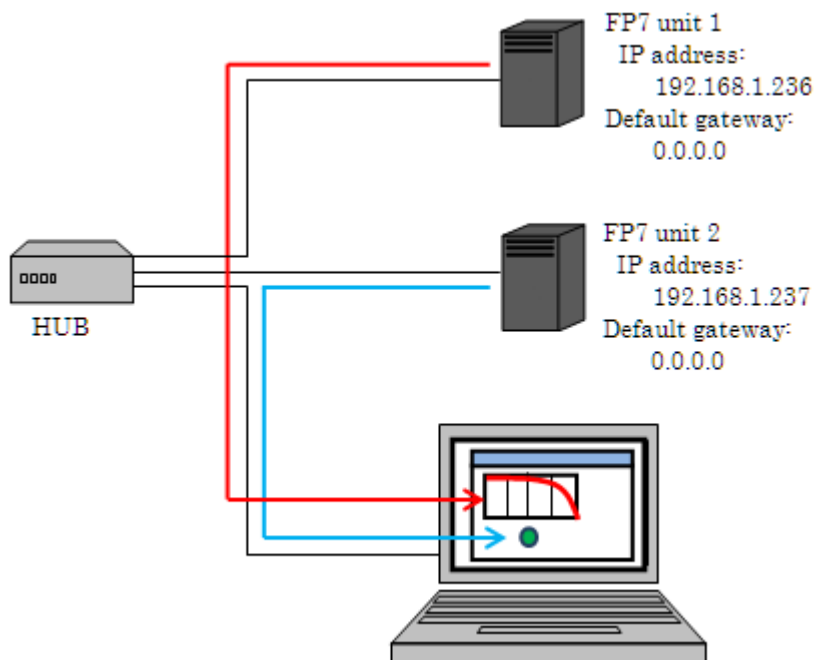
### 2.4 Connection Using SSL

#### 2.4.1 Restrictions on SSL Communication

**Example) When connecting to two FP7 units (Unit 1 and unit 2)**

	FP7 Unit 1	FP7 Unit 2	
SSL setting	N/A	N/A	Usable (Refer to "2.3 Connecting via Global Network".)
A: Available	N/A	A	This combination is not usable.
N/A: Not available	A	N/A	This combination is not usable.
	A	A	Usable

#### 2.4.2 Connecting via Local Network



**Example) When connecting to the FP7 CPU unit 1 from a browser and monitoring the FP7 CPU unit 2 from a web part displayed on the browser (This type of connection method is called a cross-domain connection.)**

[Preparation 1] IP addresses are allocated to the FP7 CPU units.  
Set the default gateway to "0.0.0.0".

[Preparation 2] Set server certificates for the FP7 CPU units.  
Server certificates can be set from the Software Control Web Creator.  
For details, refer to "5.8.1 Setting Server Certificate in PLC".

[Preparation 3] Register a root certificate in a PC.

Register a root certificate that is issued by the publisher of the server certificate registered in the FP7 CPU unit in the PC.

Without the root certificate, a content screen is not displayed even when connecting to the FP7 CPU unit.

For details, refer to "5.8.3 Registering Root Certificate in PC".

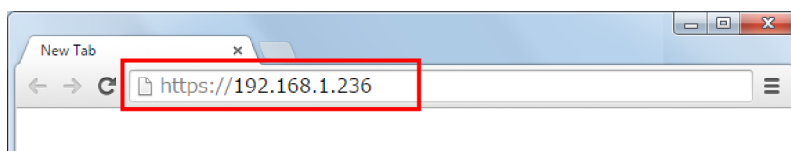
#### [How to specify an address]

1. Specification method on a browser

Specify https and the IP address of the FP7 CPU unit 1.

Concrete example:

For connecting to the FP7 CPU unit 1: https://IP address of the unit 1



The SSL communication uses the port number 443, however, it can be omitted.

2. Host address setting for screen group, screen, and web parts

Set the IP address of the FP7 CPU unit 2 to the host address of a web part connected to the FP7 CPU unit 2.

#### Setting example of a web part

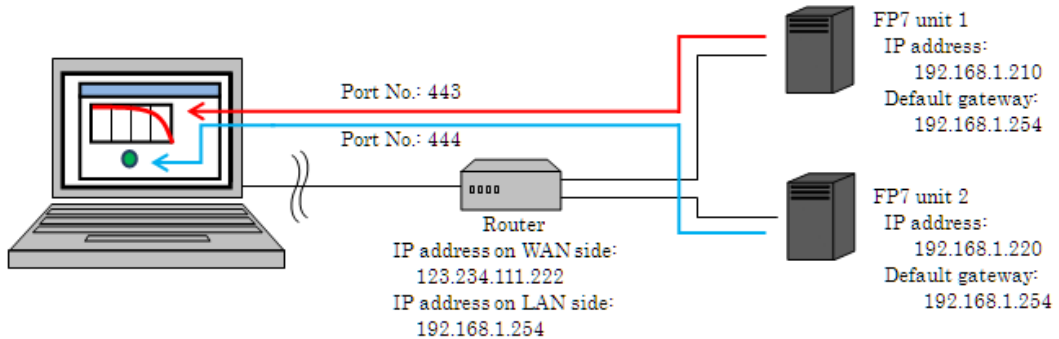
##### common parameters

##### device

host address	192.168.1.237	IP address of the unit 2
network protocol	Global settings	
lamp status	type	Global
	device type	DT,n
	No.	0
lamp status mode	a	

## 2.4 Connection Using SSL

### 2.4.3 Connecting via Global Network



**Example) When connecting to the FP7 CPU unit 1 from a browser and monitoring the FP7 CPU unit 2 from a web part displayed on the browser**

[Preparation 1] IP addresses are allocated to the FP7 CPU units.

For the default gateway setting of the FP7, specify the IP address on a LAN side of a router which performs address conversion. Communication cannot be performed properly without this setting.

[Preparation 2] Set a broadband router.

- Use a router having the NAPT function of destination address.
- Set an IP address on a LAN side.
- Set an IP address on a WAN side. (Such as a global IP address or URL)
- The destination NAT table of the router is set as follows.

Setting on WAN side    Setting on LAN side

Port No. 443: IP address of FP7 CPU unit 1 + Port No. 443

Port No. 444: IP address of FP7 CPU unit 2 + Port No. 443



- When using a port number other than 443, use an unused port.

- Concrete setting example

NAT Table

Group	IP address of WAN	Protocol		IP address of LAN	Port number of LAN
FP7WebSSL	WAN IP address	TCP	Port:443 <—>	192.168.1.210	TCP
	WAN IP address	TCP	Port:444 —>	192.168.1.220	TCP

[Preparation 3] Set server certificates for the FP7 CPU units.

Server certificates can be set from the Software Control Web Creator.

For the domain of the certificate, register the IP address of the router on the WAN side.

For details, refer to "5.8.1 Setting Server Certificate in PLC".

[Preparation 4] Register a root certificate in a PC.

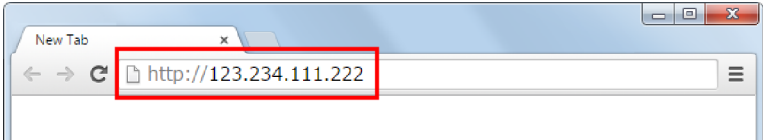
Register a root certificate that is issued by the publisher of the server certificate registered in the FP7 CPU unit in the PC.

Without the root certificate, a content screen is not displayed even when connecting to the FP7 CPU unit.

For details, refer to "5.8.3 Registering Root Certificate in PC".

**[How to specify an address]**

- 1. Specification method on a browser  
An IP address on a WAN side of a router or a fixed private IP address of VPN is specified in the format of "https://IP address on WAN side of router: Port No.". Concrete example:



The SSL communication uses the port number 443, however, it can be omitted.

- 2. Host address setting for screen group, screen, and web parts  
Set "IP address on the WAN side: Port No. registered in the NAT table" to the host address of a web part connected to the FP7 CPU (unit 2).

**Setting example of a web part**

⊞ common parameters

---

⊞ device

host address	123.234.111.222:444	IP address on the WAN side: Port No. registered in the NAT table
network protocol	Global settings	
lamp status	type	Global
	device type	DT,n
	No.	0
lamp status mode	a	

(MEMO)

# 3 Introduction to Customer Web Function

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- 3.1 Inheritance of Host Address of Customer Web Contents .....3-2
- 3.2 Outline of Method of Using Customer Web .....3-4

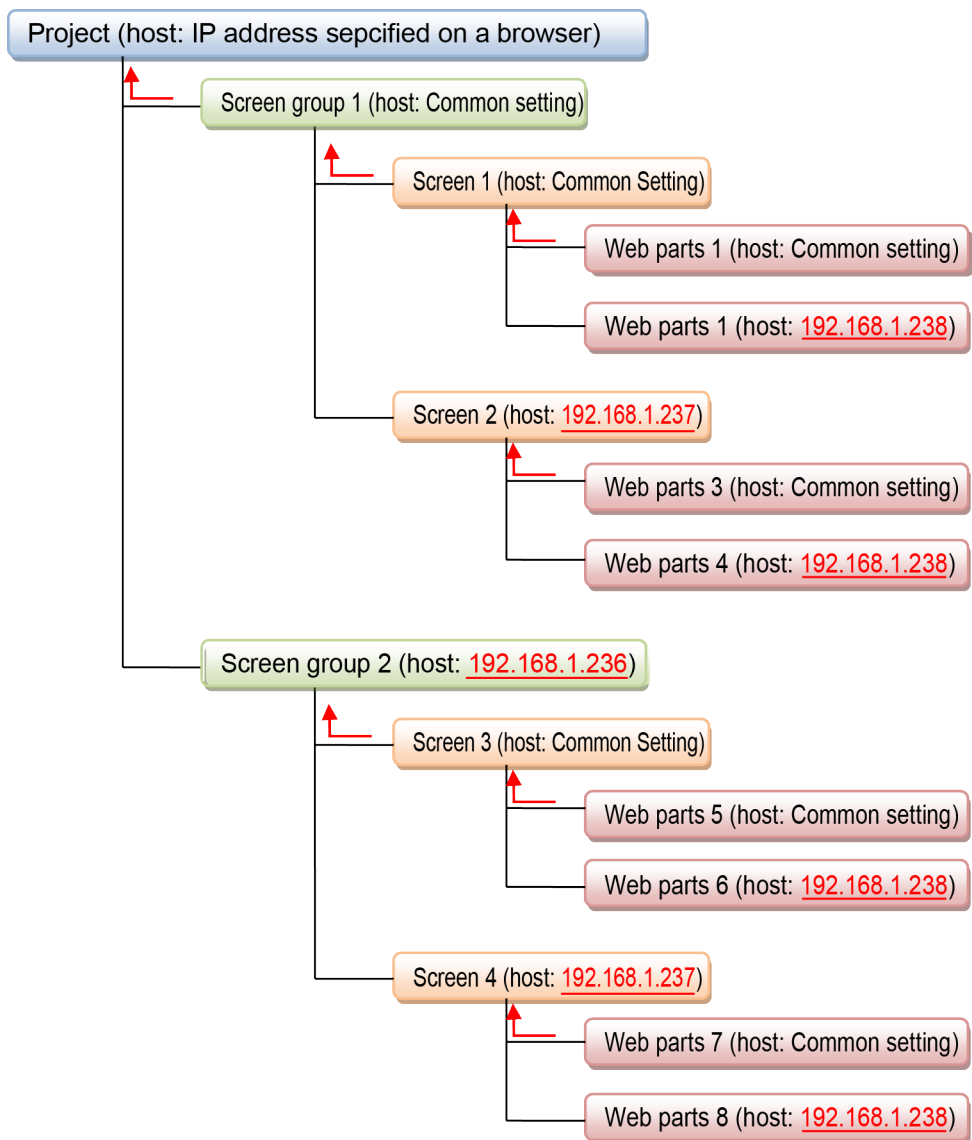
### 3.1 Inheritance of Host Address of Customer Web Contents

#### 3.1 Inheritance of Host Address of Customer Web Contents

- An IP address is specified on a browser for connecting to the customer web. This IP address is inherited for each screen group, screen, and web part.
- Separate host addresses can be set for each screen group, screen, and web part. The default is the common setting. Normally, you can use the default setting as is.
- For connecting to another web server function by individual screen or web part, specify an IP address other than the common setting.
- The setting priority of the host address is as follows. For the common setting, a next higher priority setting is applied.

(Low) Project setting < Screen group setting < Screen setting < Web parts (High)

#### [Concrete example of host address inheritance]





### 3.1 Inheritance of Host Address of Customer Web Contents

- The data acquisition destinations of the above-mentioned web parts are as follows.

Group	Screen	Web part	Data acquisition destination
Screen group 1 (Common setting)	Screen 1 (Common setting)	Web part 1 (Common setting)	IP address specified on a browser
		Web part 2 (Host is specified)	Specified address of Web part 2 (192.168.1.238)
	Screen 2 (Host is specified)	Web part 3 (Common setting)	Specified address of screen 2 (192.168.1.237)
		Web part 4 (Host is specified)	Specified address of Web part 4 (192.168.1.238)
Screen group 2 (Host is specified)	Screen 3 (Common setting)	Web part 5 (Common setting)	Specified address of group 2 (192.168.1.236)
		Web part 6 (Host is specified)	Specified address of Web part 6 (192.168.1.238)
	Screen 4 (Host is specified)	Web part 7 (Common setting)	Specified address of screen 4 (192.168.1.237)
		Web part 8 (Host is specified)	Specified address of Web part 8 (192.168.1.238)

## 3.2 Outline of Method of Using Customer Web

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### 3.2 Outline of Method of Using Customer Web

The following is the flow of using the customer web.

#### 1. Creation of screen

Create a screen with the Software Control Web Creator and save it as a project.

**[Note] The saved HTML file cannot be edited by other tools than the Software Control Web Creator.**



#### 2. Screen test

Test the created screen.

The screen operation can be confirmed by performing communication without uploading the screen to the FP7 / ELC500 / KW2M-X unit.



#### 3. Upload

Upload screen data saved by the Software Control Web Creator to the customer web.

**[Note] Only contents created by the Software Control Web Creator can be uploaded.**



#### 4. Monitor

Access the customer web by a browser, and monitor information on the operation memory of the FP7 / ELC500 / KW2M-X unit.

# 4 Installing Software Control Web Creator

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4.1 Method of Installing Software Control Web Creator.....	4-2
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4.3 Changes in Software Control Web Creator Ver.3.0.0 or later .....	4-7
4.3.1 Changes in Software Control Web Creator Ver.3.1.0.....	4-7
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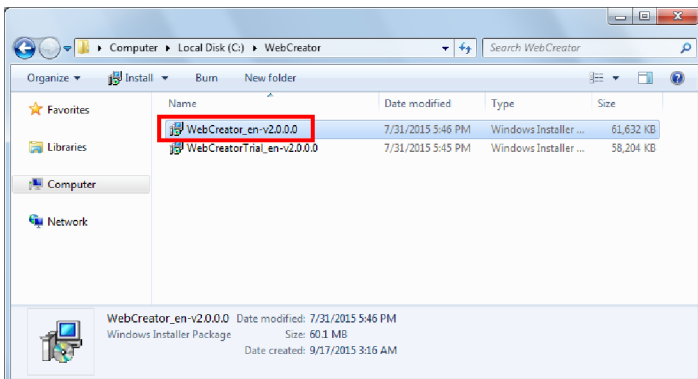
## 4.1 Method of Installing Software Control Web Creator

### 4.1 Method of Installing Software Control Web Creator

The procedure of installing the Software Control Web Creator is as follows.

#### 1 2 Procedure

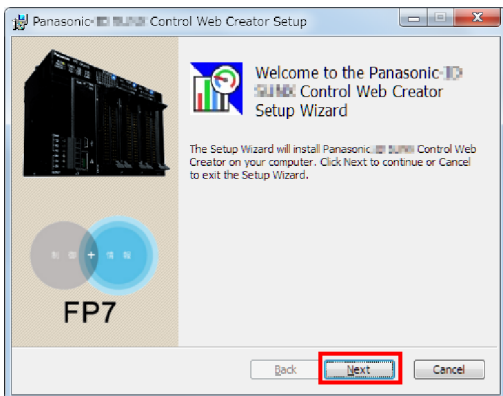
1. Start the installer of the Software Control Web Creator.



(Note 1) There are the installers of Japanese version and English version, however, the contents to be installed are the same.

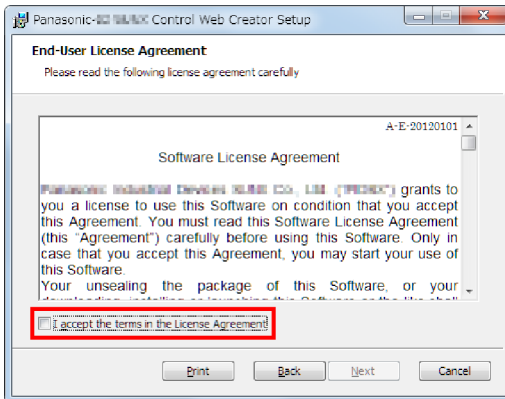
There is no need to install the both versions.

2. Proceed the operation according to the guidance of the installer.

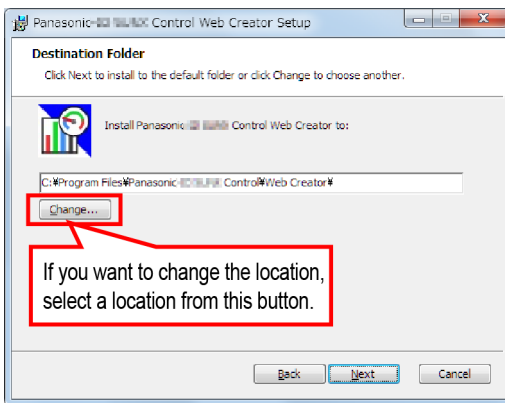


3. Confirm the software license agreement, and check the box for accepting the agreement.

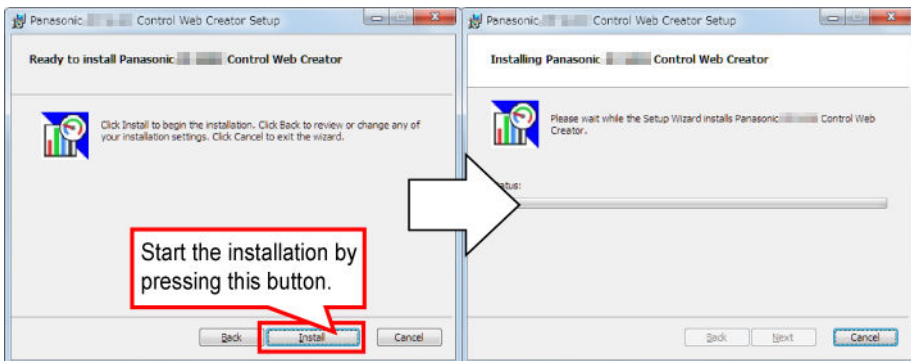
## 4.1 Method of Installing Software Control Web Creator



### 4. Select an installation destination.



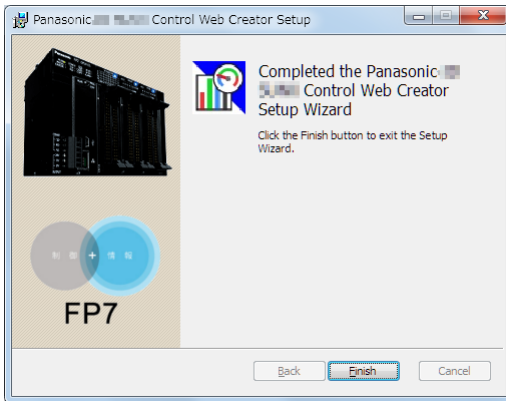
### 5. Start the installation.



### 6. Finish the installation.

## 4.1 Method of Installing Software Control Web Creator

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## 4.2 Folder Structure of Software Control Web Creator

### ■ Content folder

Data is created in the following folders in my document folder.

The project data for FP7 / ELC500 and for KW2M-X are created in different folders respectively. For adding a file, save it into a folder suitable for its purpose. In the case of a background image file,

save it into the backgrounds folder.

**However, Japanese file names cannot be used.**

### Diagram of folder structure

Web Creator	└	WebContents	:	Storage folder of project data when selecting FP7 / ELC500
		└	xxx.gst	: User-created project data
			└	ssl
			└	downloads
		└	WebContents_ECO	: Storage folder of project data when selecting KW2M-X
		└	xxx.gst	: User-created project data
		└	downloads	: Storage location of download data
		└	WebCommons	: Storage folder of project common file
		└	audio	: "P.6-7"(Details)
		└	beeps	: Storage folder of switch operation sound
		└	pdf	: Storage folder of PDF file"P.5-81"
		└	img	: Storage folder of web part image file <sup>(Note 1)</sup>
		└	backgrounds	: Storage folder of background image file
		└	cfonts	: Storage folder of font file
		└	textures	: Storage folder of texture file
		└	video	: Storage folder of moving image file"P.6-145"
		└	Ladder	: Storage folder of import ladder file"P.5-27"
		└	Exports	: Storage folder of export project"P.5-46"
		└	Imports	: Storage folder of import project"P.5-42"

(Note 1) When displaying a desired image for the lamp or switch, save the image directly in the img folder.

### ■ Application installation folder

The following files are created in the folder specified at the time of installation.

### Folder structure diagram

WebCreator	└	WebCreator.exe	:	Execution file
	└	WebCreator.png	:	Icon image file
	└	mfc140u.dll	:	DLL file for Web Creator
	└	msvcp140.dll	:	DLL file for Web Creator
	└	vcruntime140.dll	:	DLL file for Web Creator

## 4.2 Folder Structure of Software Control Web Creator

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	-	WebCertWrite.dll	:	DLL file for Web Creator
	-	WebDataWrite.dll	:	DLL file for Web Creator
	-	WebDataWrite_ECO.dll	:	DLL file for Web Creator
	-	WebReadDataConvert.dll	:	DLL file for Web Creator
	-	WebWriteDataConvert.dll	:	DLL file for Web Creator
	-	KeyPairVerify.dll	:	DLL file for Web Creator
	-	libcrypto-1_1.dll	:	DLL file for OpenSSL <sup>(Note 1)</sup>
L	-	libssl-1_1.dll	:	DLL file for OpenSSL <sup>(Note 1)</sup>

(Note 1) In this product, the software developed by OpenSSL Project is incorporated for using OpenSSL Toolkit. (<https://www.openssl.org/>)



## 4.3 Changes in Software Control Web Creator Ver.3.0.0 or later

## 4.3.1 Changes in Software Control Web Creator Ver.3.1.0

## ■ Defect correction in Ver.3.0.0

No	Item	Description
1	Download	<p>Corrected the problem that switches or meter parts are not displayed on a test or monitor screen when using a project which is applied to the following case.</p> <ul style="list-style-type: none"> <li>When using project data created with a Software Control Web Creator earlier than Ver.3.0.0 by downloading with Software Control Web Creator Ver.3.0.0.</li> </ul> <p>This fault does not occur when opening project data created with a Software Control Web Creator earlier than Ver.3.0.0 and stored in a disk.</p> <p>Please do not use Software Control Web Creator Ver.3.0.0. Please use Ver.3.1.0. For details, refer to the description below the table.</p>
2	Upload SSL certificate...	<p>Corrected the problem that the SSL certificate cannot be uploaded after the upload of contents.</p> <p>For using the certificate stored in the server, FP7 CPU unit Ver.4.25 or later (with EtherNet/IP) or Ver.3.45 or later (without EtherNet/IP) should be used.</p>
3	Switch parts Lamp-switch parts	<p>Corrected the timing of the occurrence of an operation event when the switch mode is set to "invert" and the operation is registered for the up/down operation."P.4-7"</p>

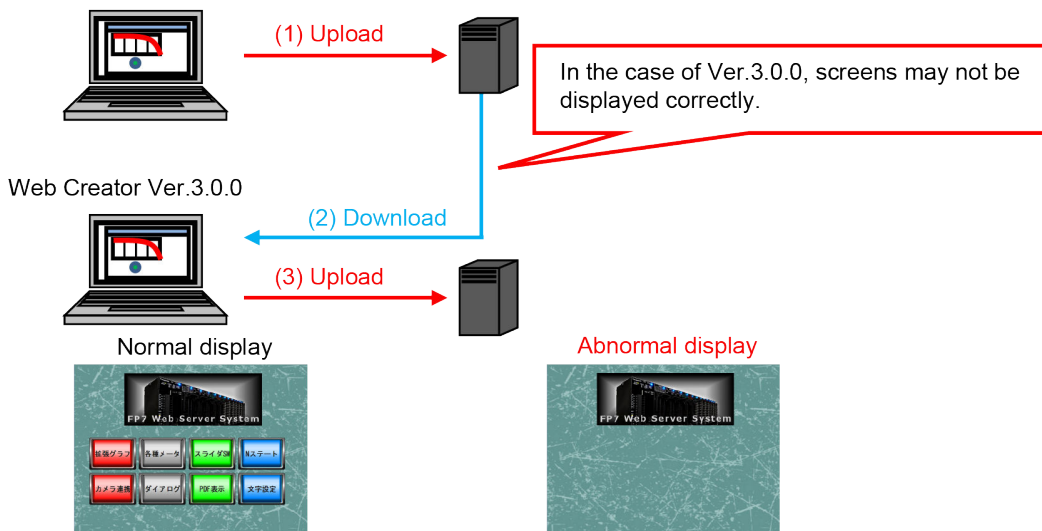
## ● Detail of the defect correction item 1

When a project created with a Software Control Web Creator earlier than Ver.3.0.0 is downloaded with the Ver.3.0.0, the monitor screen after a test or upload is not displayed correctly as the project cannot be properly converted into a project in the Ver.3.0.0 format. The project may not be restored to its original data.

Please do not use Web Creator Ver.3.0.0. Please use Ver.3.1.0.

By reloading and saving the project that cannot be displayed correctly as above again after the upgrading the Web Creator to Ver.3.1.0, the project is converted to the correct data.

Earlier than Web Creator Ver.3.0.0



## 4.3 Changes in Software Control Web Creator Ver.3.0.0 or later

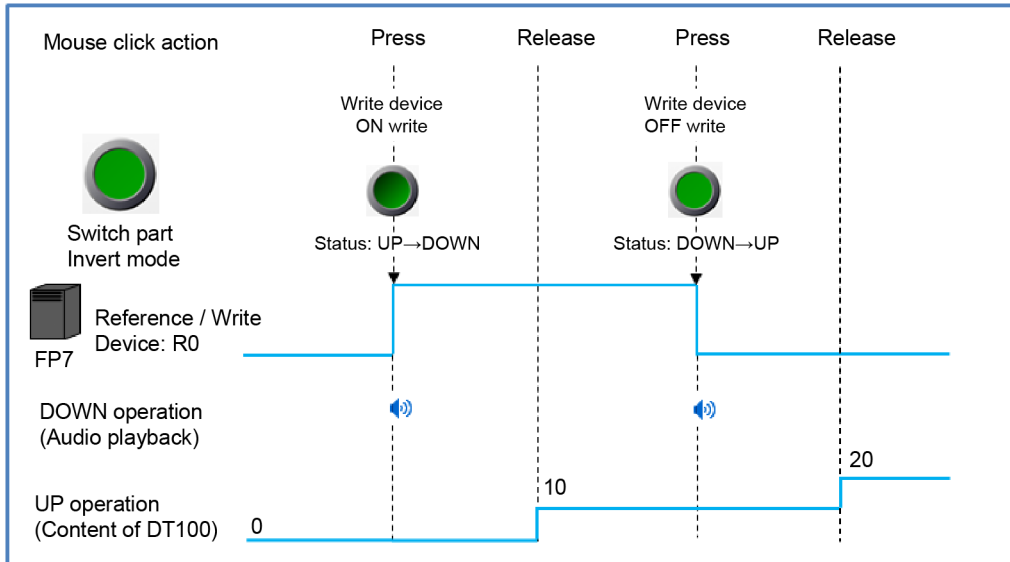
### ● Detail of the defect correction item 3

The timing of the occurrence of an operation when the switch mode is set to "invert" was corrected as illustrated below.

The both figures before correction and after correction show the operations when "audio playback" is set for the DOWN operation and "adding 10 to DT100" for the UP operation.

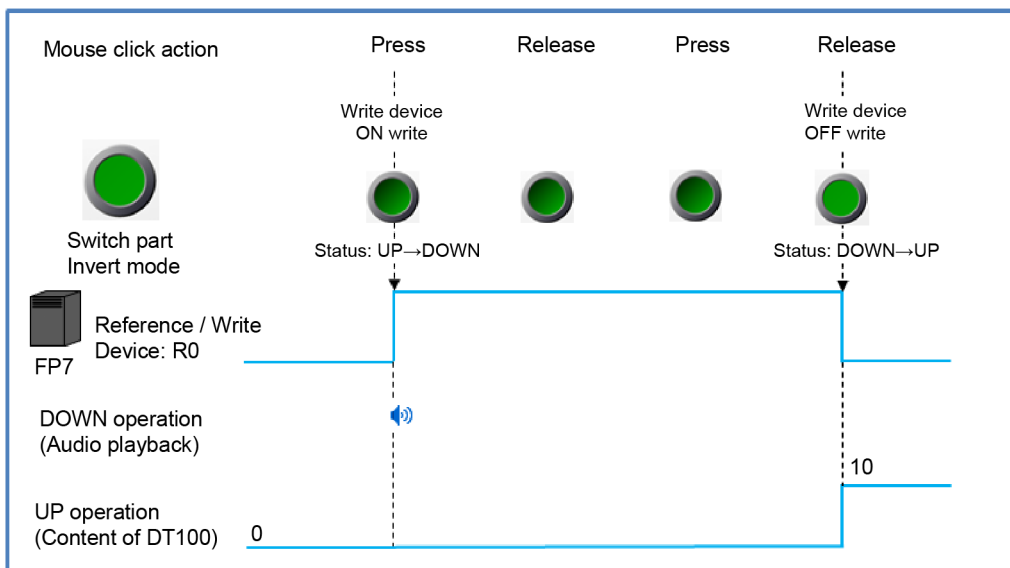
#### Earlier than Ver.3.1.0 (Before correction)

Before the correction, "the DOWN operation is executed when left-clicking (pressing) a part with a mouse" and "the UP operation is executed when left-clicking (releasing) a part with a mouse".



#### Ver.3.1.0 (After correction)

After the correction, "the DOWN operation is executed when the switch status changes from UP to DOWN" and "the UP operation is executed when the switch status changes from DOWN to UP".

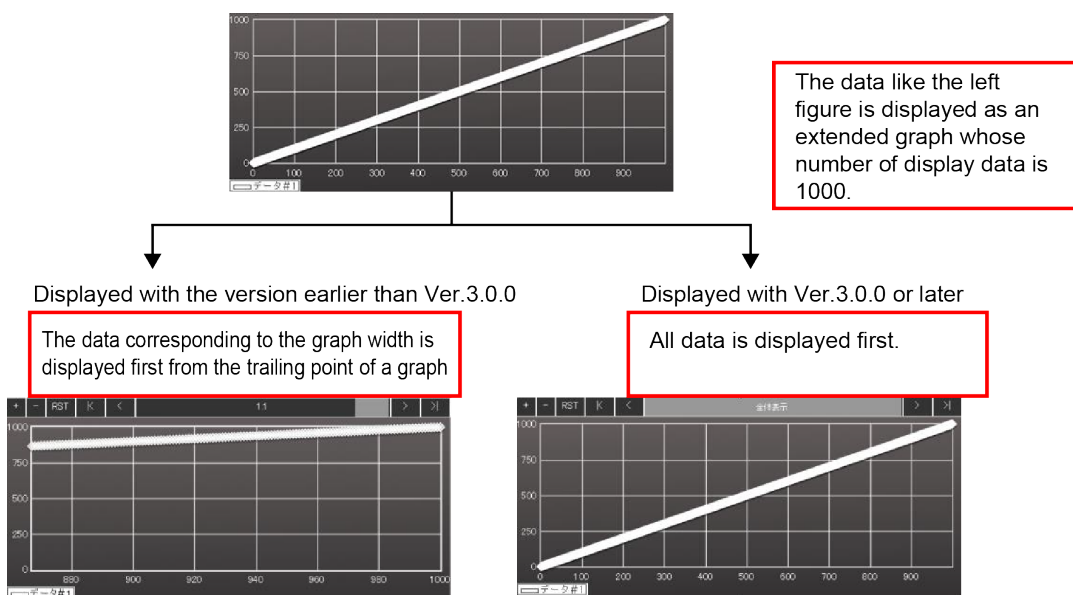


### ■ Overview of improved functions of Ver.3.1.0

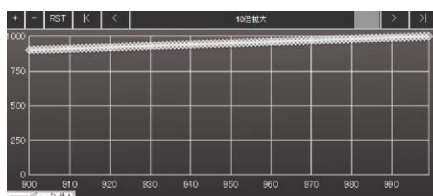
No	Item	Description
1	Extended graph parts	<ul style="list-style-type: none"> <li>The time unit for the x axis can be specified when using trend graphs.</li> <li>The setting items of x-axis properties "decimals" and "increment" were eliminated. The x-scale display can be adjusted by "X magnification".</li> </ul> <a href="#">"6.13 Extended graph parts"</a>
2	Data parts Table parts	Added Time 0 (BIN) to "format". For details of table parts, also refer to the following data parts. <a href="#">"6.17 Data Parts"</a>

### ■ Precaution when using extended graphs created with a Software Control Web Creator earlier than Ver.3.0.0 on Ver.3.1.0

The items "initial display" and "magnification(1=all view)" has been added to the extended graph settings in Ver.3.0.0. As all data is displayed with these default settings, the initial graph display position differs when using extended graphs created with a Software Control Web Creator earlier than Ver.3.0.0. on the version earlier than Ver.3.0.0.



When the initial display of extended graphs is set to the version earlier than Ver.3.0.0, the settings for extended graphs should be specified as follows; "initial display = trailing points", "magnification (1=all view) = No. of all data / No. of data displayed first".



Initial display: trailing points  
magnification (1=all view): 10  
100 data is displayed first from the trailing point.

## 4.3 Changes in Software Control Web Creator Ver.3.0.0 or later

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### 4.3.2 Changes in Software Control Web Creator Ver.3.2.0

It supports the new product ELC500.

### 4.3.3 Changes in Software Control Web Creator Ver.3.3.0

#### ■ Addition of web parts

No	Item	Reference sections
1	Integration graph	"6.15 Integration Graphs"
2	SD card logging graph	"6.16 SD Card Logging Graph Parts"
3	General-use camera	"6.24 General-use Camera Parts"

### 4.3.4 Changes in Software Control Web Creator Ver.3.4.0

#### ■ Addition of functions

No	Item	Reference sections
1	Operation history	"5.19 Operation History"

#### ■ Addition of web parts

No	Item	Reference sections
1	Alarm history	"6.20 Alarm History"
2	Gantt chart	"6.21 Gantt Chart"

#### ■ Overview of improved functions of Ver.3.4.0

No	Item	Description
1	Alarm history	Added "character size" settings to operation buttons.
2	Gantt chart	
3	Alarm history	Added error codes to the list of errors.
4	Gantt chart	

#### ● Details of improved functions No. 1 and 2

This improvement allows you to change the character size of operation buttons for alarm history and Gantt chart parts.

### Common to alarm history and Gantt chart parts

☐ controls

text size	Default (14px)	▼
[start] visibility	Visible	▼
[stop] visibility	Visible	▼
[refresh] visibility	Visible	▼
[ack.] visibility	Visible	▼
[delete] visibility	Visible	▼
[CSV] visibility	Visible	▼
[clear history] visibility	Visible	▼

- **Details of improved functions No. 3 and 4**

“Code 42 Not-support error” and “Code 71 Simultaneous multiple read error (exclusive control error)” were added to the list of errors concerning alarm history and Gantt chart parts.

### Common to alarm history and Gantt chart parts

- **List of errors**

Code	Name	Description of error
41	Format error	Command in a different format was received.
42	Not-support error	The command not supported by the source or destination node was transmitted.
60	Parameter error	Specified parameter does not exist, or cannot be used.
61	Data error	There is an error in the contact, data area, data number, size, range or format specification.
63	PROG. error	Operation history parts cannot be operated in PROG.
71	Exclusive control error	Executed a command that cannot be processed simultaneously with the command already in process.
98	Operation history active error	Active operation history group exists.

- **Addition of error handling item to web parts (alarm history and Gantt chart parts)**

No	Item	Description
1	Alarm history	Added an “error handling” item to allow you to select the permitted number of simultaneous multiple read errors. Changed the name of error code 71.
2	Gantt chart	

- **Details of improved functions No. 1 and 2**

An “error handling” item for alarm history and Gantt chart parts was added to allow you to select the permitted number of simultaneous multiple read errors.

### Common to alarm history and Gantt chart parts

☐ error handling

OPHR71 max retries	0	▼
--------------------	---	---

The name of error code 71 was changed as the “error handling” item was added to allow you to select the permitted number of simultaneous multiple read errors.

## 4.3 Changes in Software Control Web Creator Ver.3.0.0 or later

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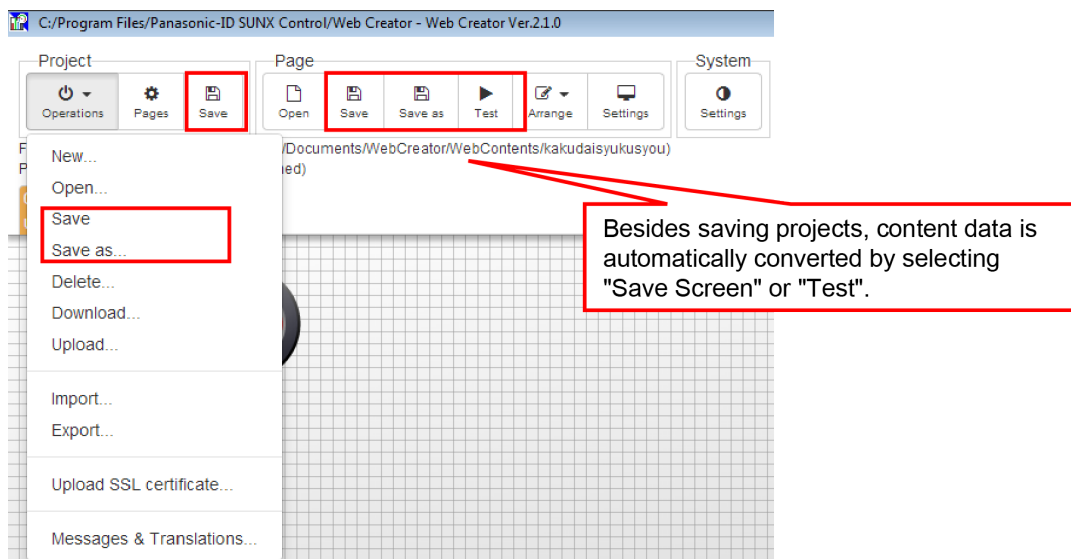
### Common to alarm history and Gantt chart parts

#### ■ List of errors

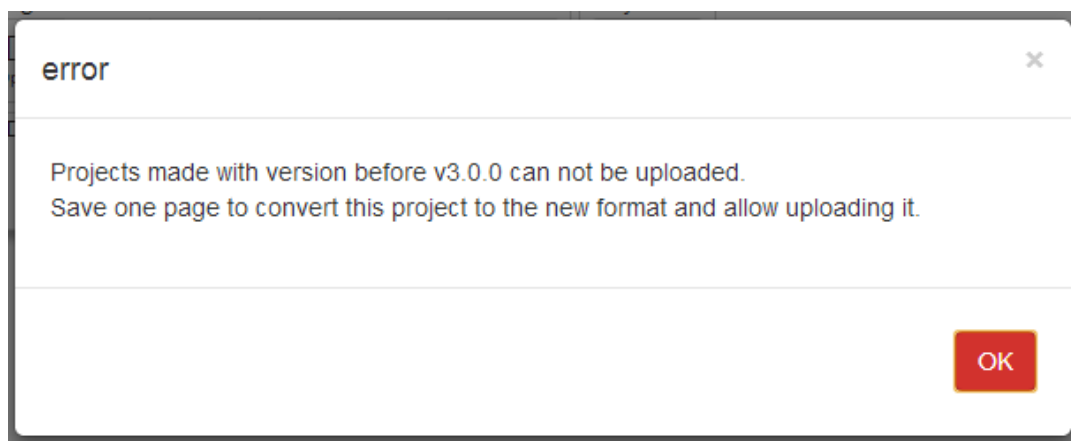
Code	Name	Description of error
41	Format error	Command in a different format was received.
42	Not-support error	The command not supported by the source or destination node was transmitted.
60	Parameter error	Specified parameter does not exist, or cannot be used.
61	Data error	There is an error in the contact, data area, data number, size, range or format specification.
63	PROG. error	Operation history parts cannot be operated in PROG.
71	Simultaneous multiple read error (exclusive control error)	Executed a command that cannot be processed simultaneously with the command already in process.
98	Operation history active error	Active operation history group exists.

### 4.4 Projects Created with Versions Earlier Than Ver.3.0.0

For using a project created by the version of Software Control Web Creator earlier than Ver.3.0.0, the project should be opened and saved once by the Web Creator Ver.3.0.0 or later. The content data are automatically converted by saving the project.



When data is uploaded or the content capacity is confirmed without saving the project, a message will be displayed.



- Projects saved by the Software Control Web Creator Ver.3.0.0 or later cannot be used by the Software Control Web Creator earlier than Ver.3.0.0.

(MEMO)



# 5 Software Control Web Creator Function

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## 5 Software Control Web Creator Function

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## 5.1 Overview of Software Control Web Creator

### ■ What is Software Control Web Creator?

- The Software Control Web Creator is software for creating and saving contents displayed on the customer web.
- Contents can be created by arranging web parts or graphics such as switches, lamps and meters and setting those properties.

### ■ What is project data?

- Created monitor screens and settings such as communication settings and security settings are called project data.
- Project data is stored in a project folder created by the Software Control Web Creator.

### ■ What is web part?

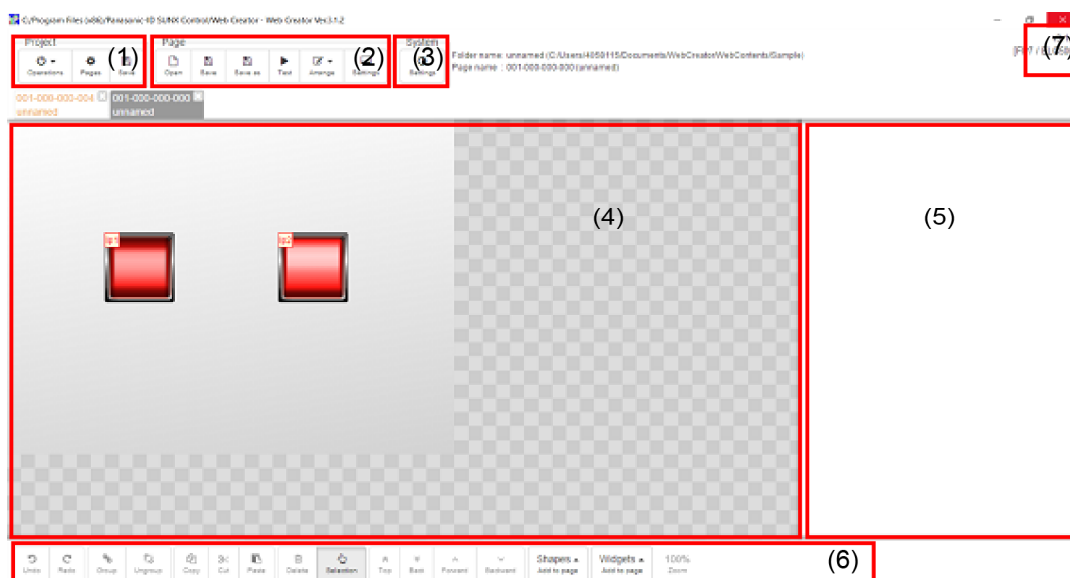
- Web part is a part unit that is composed of control part (such as switches), data part (such as meters) and static part (texts).
- By setting the properties, the operation memory of the FP7, ELC500, and KW2M-X can be monitored or set, or monitor screen pages can be switched.

### ■ What is graphic?

- Graphic is a part unit having a shape such as square, circle, and arrow.  
By setting the properties, the size or color arrangement can be adjusted.

### ■ Screen configuration

#### Screen configuration of Software Control Web Creator



- (1) Project menu: : Project operation menu  
1) Operations : Displays the operation menu.

## 5.1 Overview of Software Control Web Creator

---

- a) New... : Creates a new project
- b) Open... : Opens an existing project.
- c) Save : Overwrites and saves a project.
- d) Save as... : Saves a project as a specified name.
- e) Delete... : Deletes a new project
- f) Download : Downloads project data to PC from the FP7, ELC500, and KW2M-X.
- g) Upload : Transfers project data to the FP7, ELC500, and KW2M-X from PC.
- h) Import : Imports a project created with the Software Control Web Creator.
- i) Export : Outputs a project currently viewed by you in a format that allows import to the Software Control Web Creator.
- j) Upload SSL certificate... : Sets/deletes the SSL certificate for/from the FP7 and ELC500.
- k) Messages & Translations... : Defines a message displayed with a message part.
- 2) Control : Controls the creation/deletion and settings of groups and screens.
- 3) Save : Overwrites and saves a project.
- (2) Page menu : Screen operation menu
  - 1) Open : Opens a screen created by project management.
  - 2) Save : Overwrites and saves the screen being edited.
  - 3) Save as : Saves the screen being edited as a specified name.
  - 4) Test : Confirms the operation of saved screen data communicating with the FP7, ELC500, and KW2M-X.
  - 5) Arrange : Displays the screen editing menu.
    - a) Multicopy... : Copies a selected part for a specified number continuously.
    - b) Mirroring : Switches the positions of selected multiple parts.
    - c) Center : Arranges selected multiple parts in the center of the screen.
    - d) Align... : Aligns selected multiple parts.
    - e) Delete all : : Deletes all parts arranged in the screen.
  - 6) Screen configuration : Configures screen settings.
- (3) System menu : Makes the settings related to the whole operation of the Software Control Web Creator.
- (4) Drawing area : Arranges various parts.
- (5) Property setting area : Displays the properties of arranged parts.
- (6) Tool bar : Toolbar for screen editing
  - 1) Undo : Undoes the operation. (Undo)
  - 2) Redo : Redoes the operation. (Redo)
  - 3) Group : Groups selected multiple parts.
  - 4) Ungroup : Ungroups a set of items.
  - 5) Copy : Copies a selected part.
  - 6) Cut : Cuts a selected part.
  - 7) Paste : Pastes a selected part.

## 5.1 Overview of Software Control Web Creator

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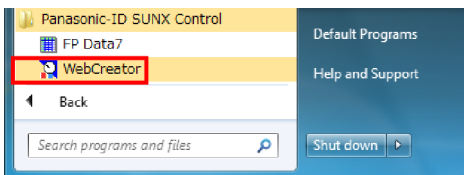
- 8) Delete : Deletes a selected part.
- 9) Selection : Changes the mode to the state in which parts are selectable in the drawing area.
- 10) Top : Moves the layer in which a selected part is arranged to the top (forward).
- 11) Back : Moves the layer in which a selected part is arranged to the bottom (backward).
- 12) Forward : Moves the layer in which a selected part is arranged to the layer next above (forward).
- 13) Backward : Moves the layer in which a selected part is arranged to the layer next below (backward).
- 14) Shapes Add to page : Arranges shapes parts such as circle, triangle, and square.
- 15) Widgets Add to page : Arranges prepared parts.
- (7) Model and version information : Displays the model information of contents and version of the Software Control Web Creator.

## 5.2 How to Start Software Control Web Creator

### 5.2 How to Start Software Control Web Creator

#### 1 2 Procedure

1. Insert the Key Unit (AFPSWCKEY) to the PC you use beforehand.
2. The Software Control Web Creator can be started from the Start menu "WebCreator".



3. The Software Control Web Creator starts.



- The display language of the Software Control Web Creator is determined by the language of OS at the time of startup.
- The display language is switched according to the language of OS as follows.

Japanese OS	Japanese display
Other languages	English display

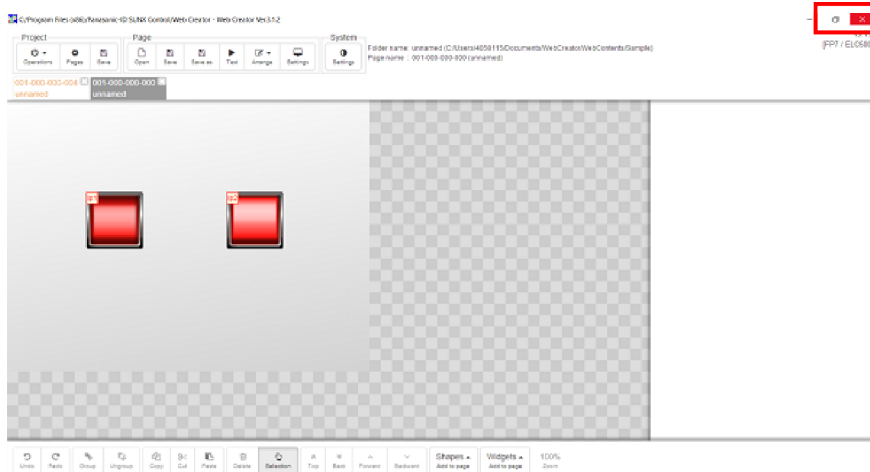
The display language of the Software Control Web Creator can be changed.

Once the display language is changed, the selected language is also used from the next startup.

For details of the method of switching the display language, refer to "[5.16 Multi-language Switching Function of Software Control Web Creator](#)".

### 5.3 How to Close Software Control Web Creator

For closing the Software Control Web Creator, press the [x] button in the top right corner of the screen.



## 5.4 Project Folder

### 5.4 Project Folder

A project folder should be specified before creating a screen.

Create or specify a project folder when starting the Software Control Web Creator or from the **Operations** menu of the project menu of the Software Control Web Creator.

**\* Create a project folder in the following folder.**

**For projects for FP7 and ELC500: In WebContents folder**

**For projects for KW2M-X: In WebContents\_ECO folder**

#### 5.4.1 Differences by Web Server Function Models

The model of a web server function should be selected for creating a project by Software Control Web Creator.

Usable parts and functions depend on the selected web server function model.

The contents that differ depending on each web server function model are as follows.

	FP7, ELC500	KW2M-X
Parts	<ul style="list-style-type: none"><li>• None</li></ul>	<ul style="list-style-type: none"><li>• Media player parts cannot be selected.</li><li>• Writing operation is not available from each part.</li><li>• For the device that can be specified in the part setting, the DT of global device is fixed.</li></ul>
Functions	<ul style="list-style-type: none"><li>• None</li></ul>	<ul style="list-style-type: none"><li>• The screen switching function by a command from a controller is not available.</li><li>• The screen number notification function is not available.</li><li>• The SSL certificate setting function is not available.</li></ul>

(Note 1) Except the above parts and functions, the same functions are available for the FP7, ELC500 and KW2M-X.



- It is not possible to upload contents to other models than that selected when creating the project.
- Also, the project cannot be converted to that for a different model. Make sure that you do not select a wrong model.

#### 5.4.2 Creating Project Folder at Startup

Create a new project folder from the start screen.

**1**

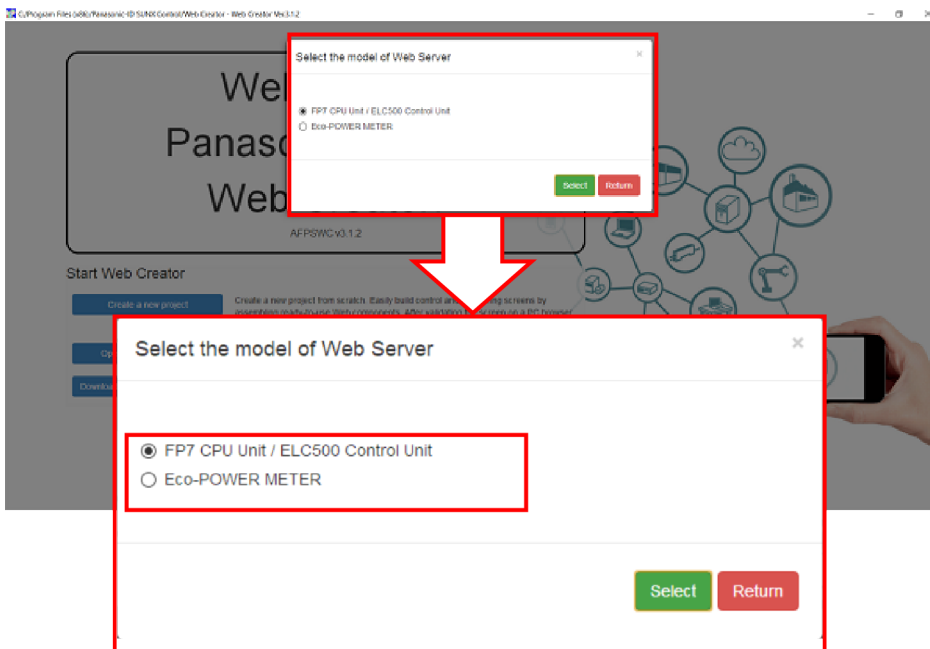
#### Procedure

1. Click [Create a new project] in the start screen.





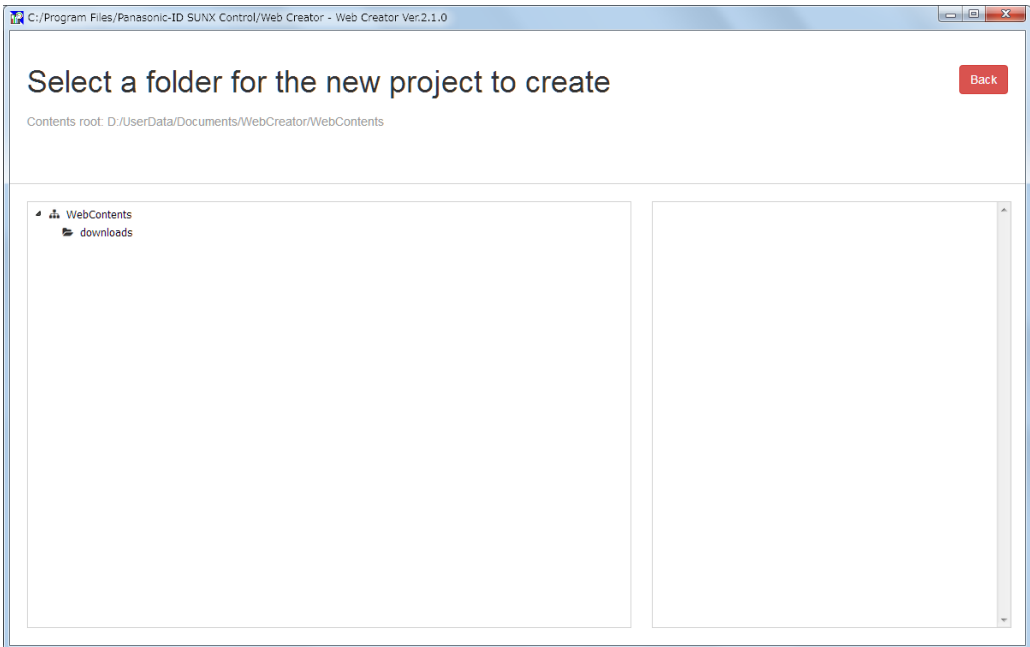
2. Select the model of the web server function that is used in a created project.



3. The list of projects is displayed.

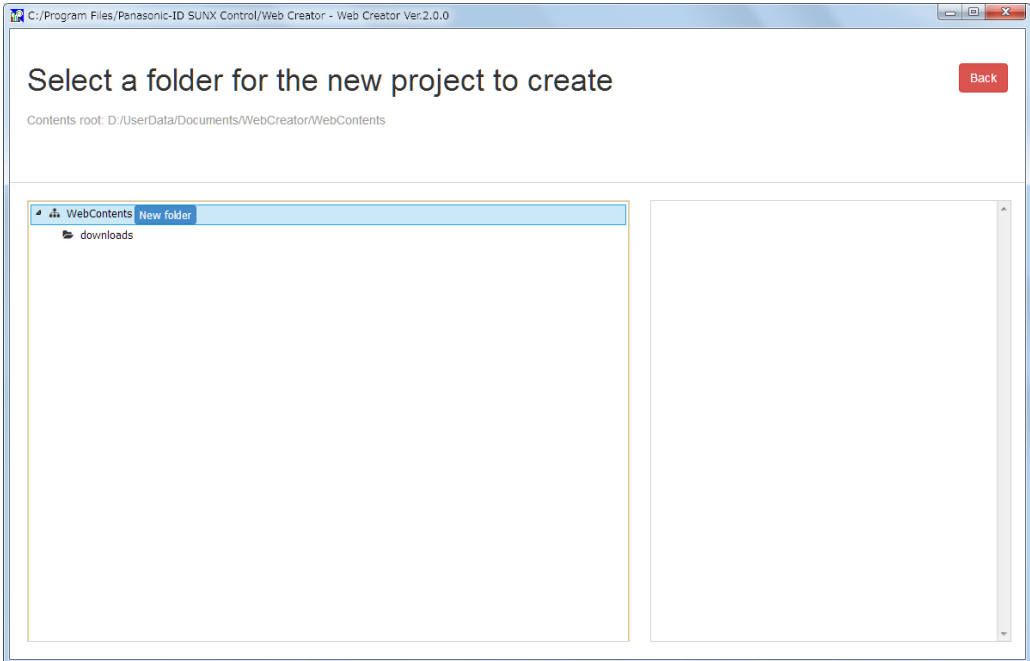
## 5.4 Project Folder

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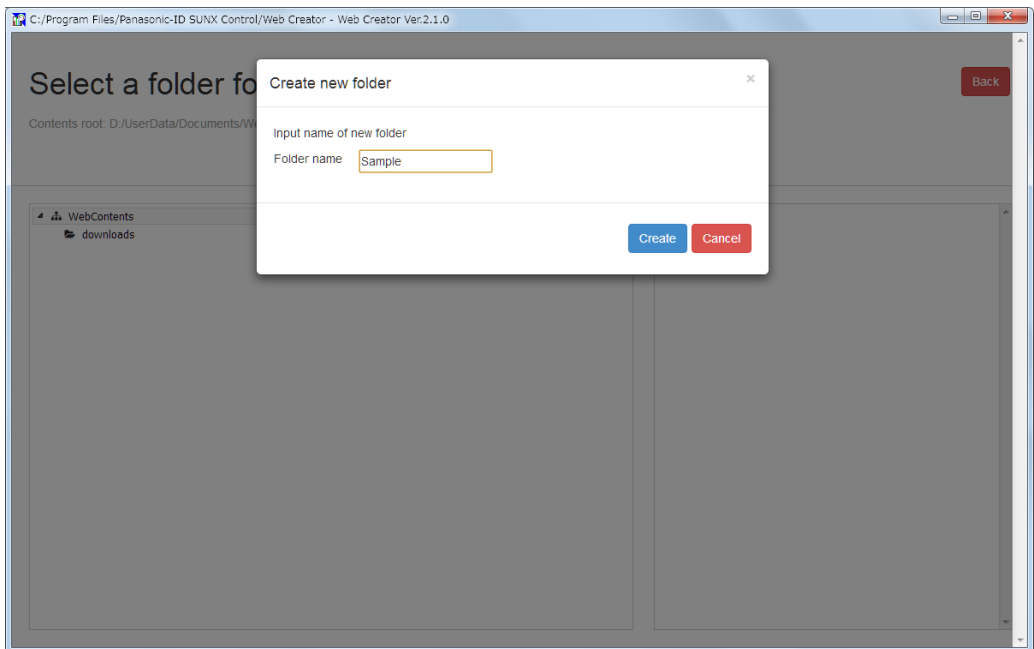


The project list of the selected model is displayed.

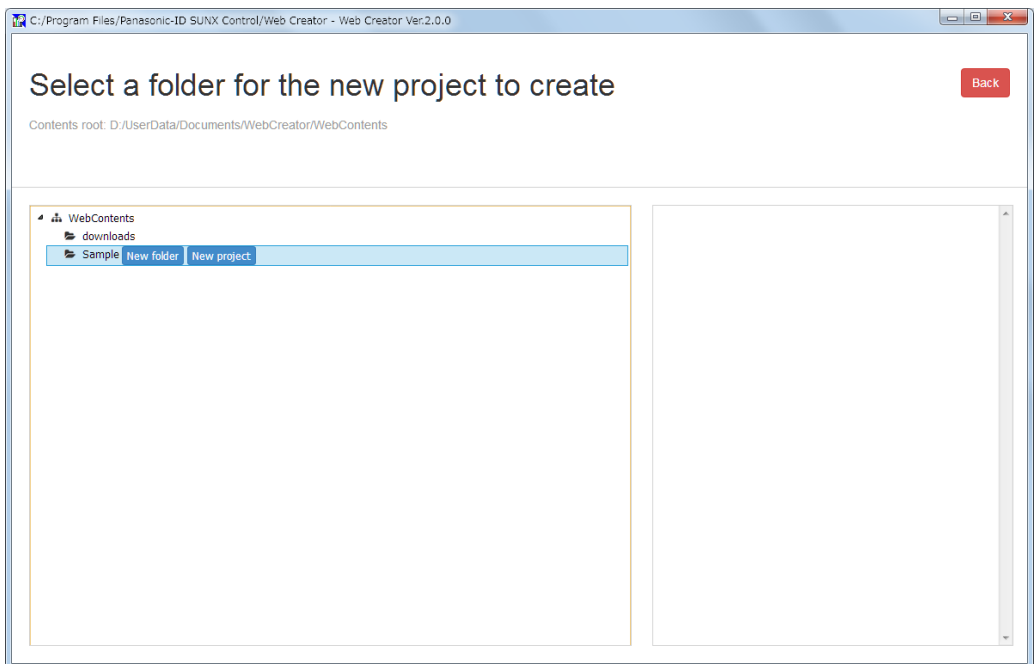
4. Clicking the WebContents (WebContents\_ECO) displays the [New folder] button.



5. Click the [New folder] button to open the screen to enter a folder name. Enter a folder name, and click the [Create] button.

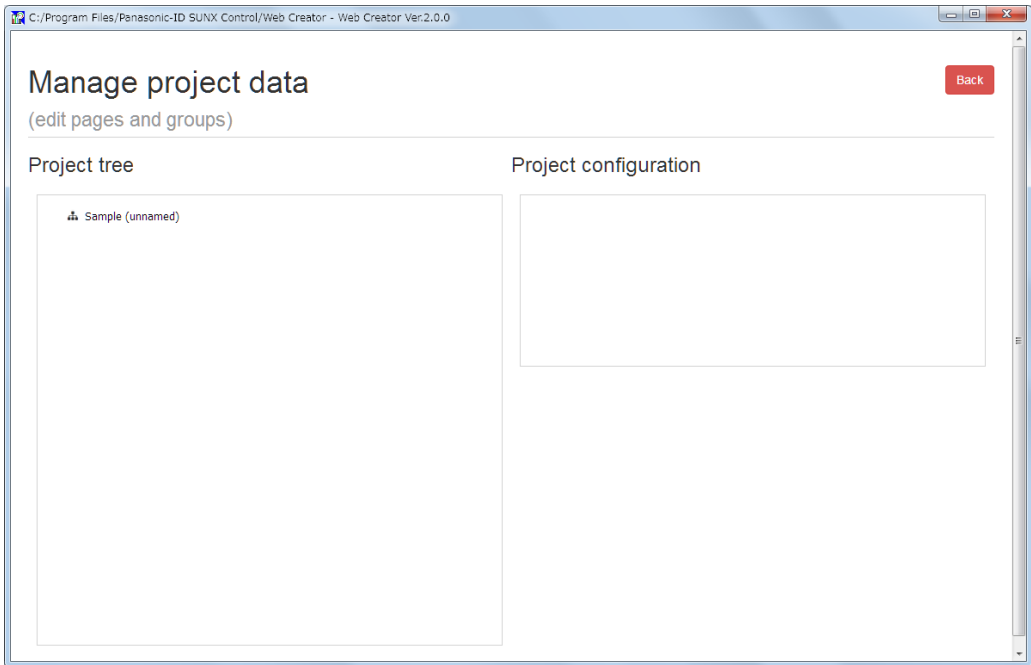


6. Click the [New project] button displayed by clicking on the created folder and create the project.



7. Once the project is created, the screen moves to the project management screen.

## 5.4 Project Folder



For creating groups or screens subsequently, carry out the creation from the project tree. For details, refer to "5.5 Project Management".

### 5.4.3 Specifying Existing Project Folder at Startup

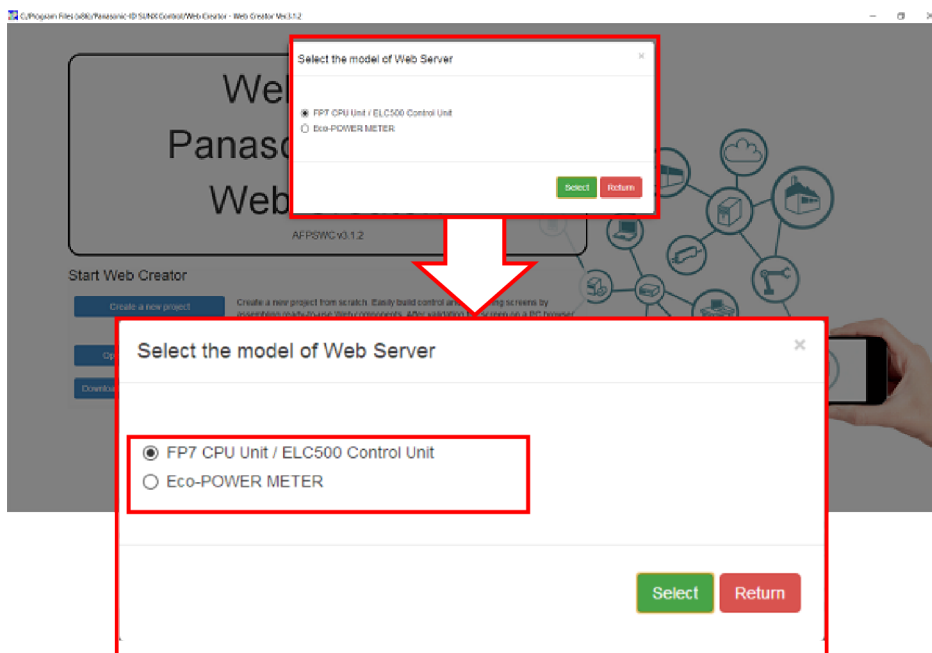
Specify an existing project folder from the start screen.

#### 1.2 Procedure

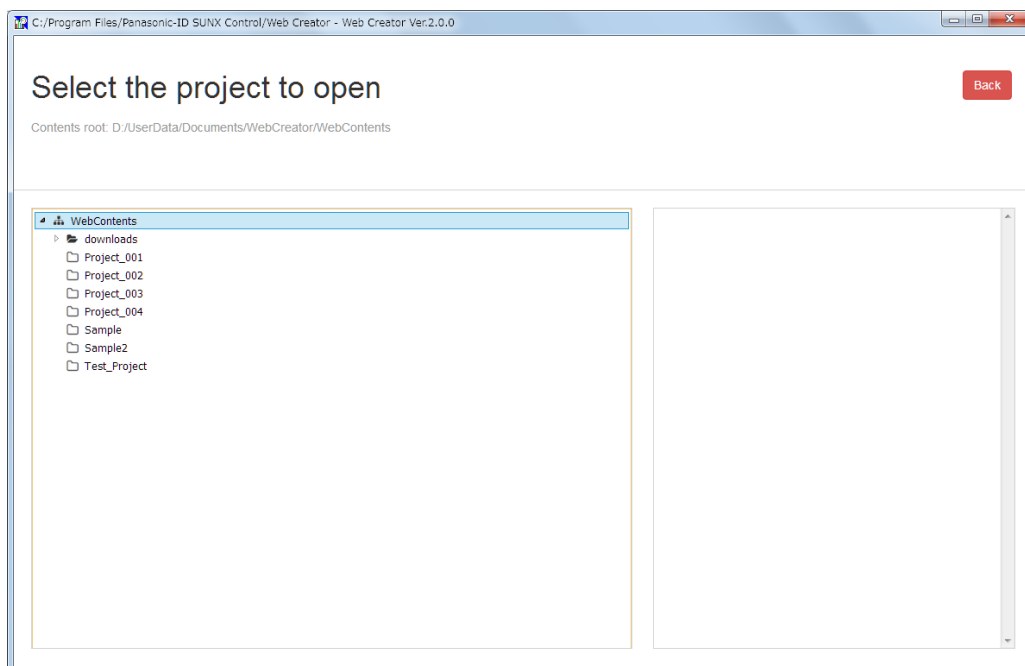
1. Click [Open an existing project] in the start screen.



2. Select the model of the web server function.



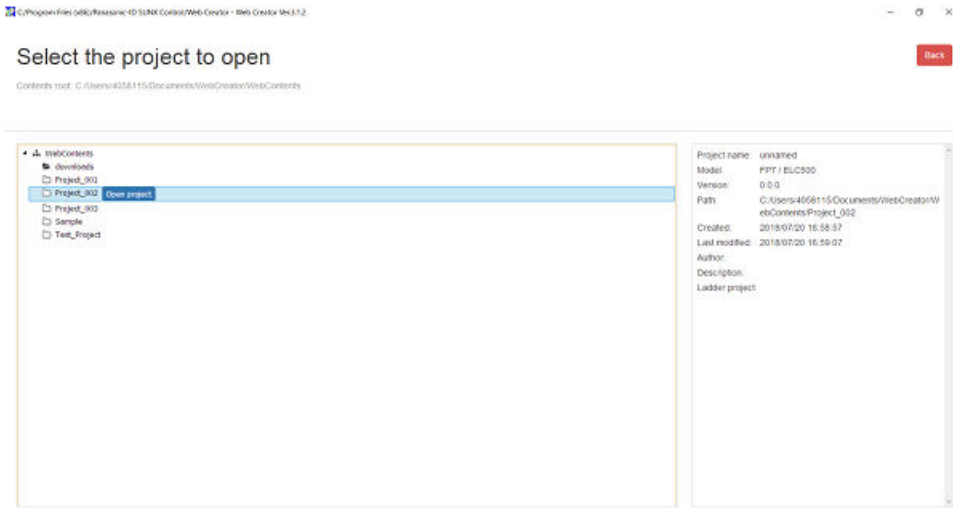
3. The list of existing projects is displayed.



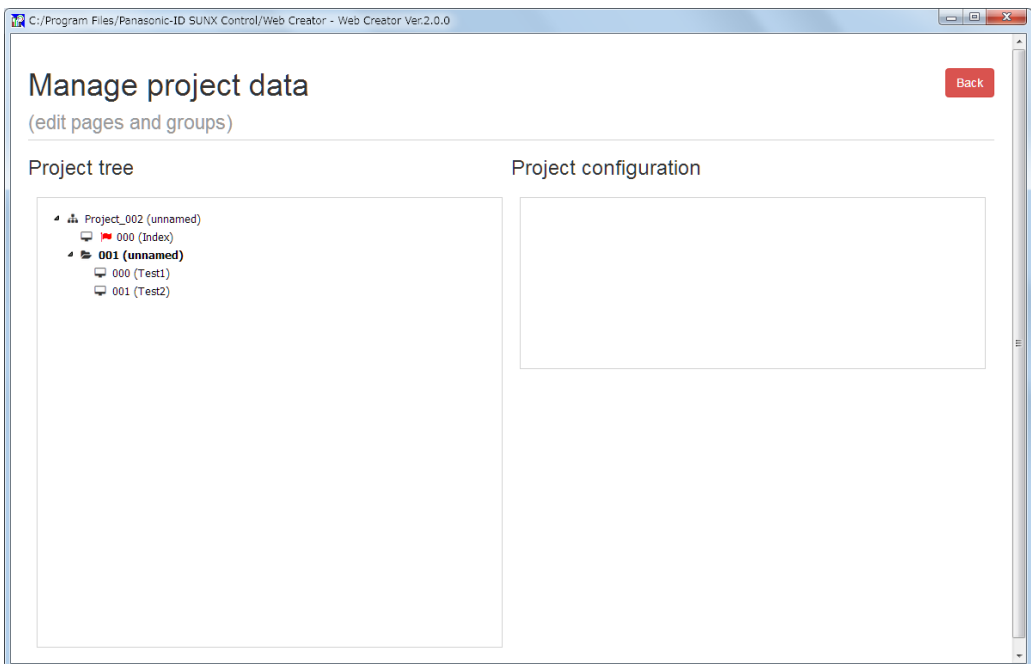
The project list of the selected model is displayed.

4. Clicking on the folder you want to open displays the [Open project] button. Click the button to open the project.

## 5.4 Project Folder



5. Once the project is opened, the screen moves to the project management screen.



For opening an existing screen subsequently, open it from the project tree.  
For creating groups or screens, carry out the creation from the project tree.  
For details, refer to "5.5 Project Management".

### 5.4.4 Acquiring Project from Web Server Function at Startup and Editing It

Download a project from the Web Server function in the start screen and edit the project.

## 1 2 Procedure

1. Click [Download project from Web Server] in the start screen.



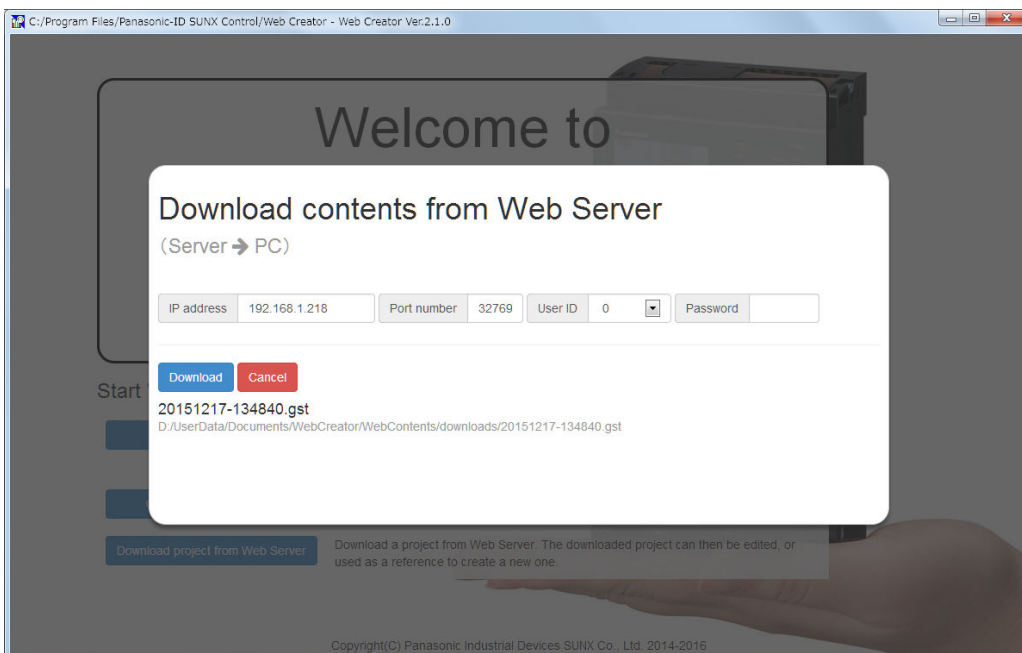
2. Select the model of the web server function to which the project is downloaded.



If the model of the web server function is different from the selected model, the download cannot be performed.

3. Confirm the IP address, user ID and password of the source Web Server, and click [Download].

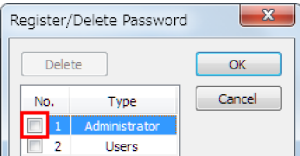
## 5.4 Project Folder



The default IP address is displayed for a download destination.

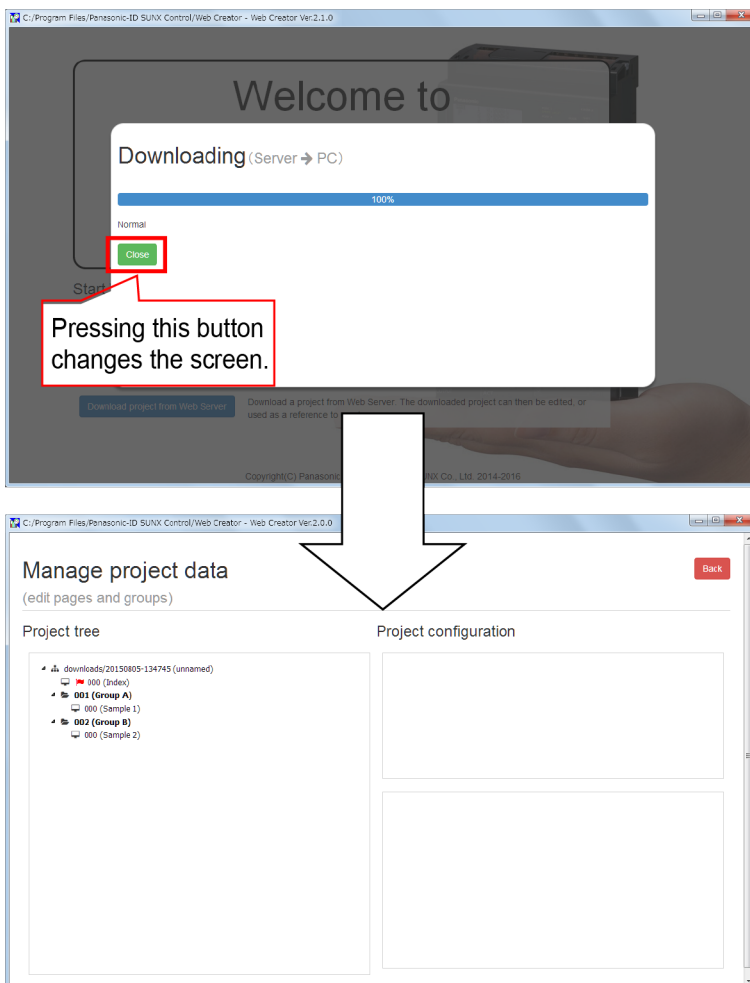
Change it to the desired IP address.

The user ID and password varies by the security setting of FP7 and ELC500.

Security setting	User ID and Password
None	Connect as a master user. User ID: 0, Password: Not required
FPWIN GR7 security settings (FP7 only)	User ID: Number for administrator used when the password has been registered. (Figure below) Password: Administrator password used when the password has been registered.  (How to confirm) <b>Tools&gt;PLC Security Settings&gt;Register/Delete Password</b>
FPWIN Pro7 security settings	User ID: 1, Password: Password registered in Security Settings. (How to confirm) <b>Online&gt;Security Settings</b>

- When the web server function model for a project currently being edited and the destination web server function model are different, the project cannot be downloaded.
  - When downloading contents from the KW2M-X, use the following settings; Port number: 32769, User ID: 1, Password: SystemWeb.
4. Pressing the [Close] button after the completion of download moves the screen to the project management screen.





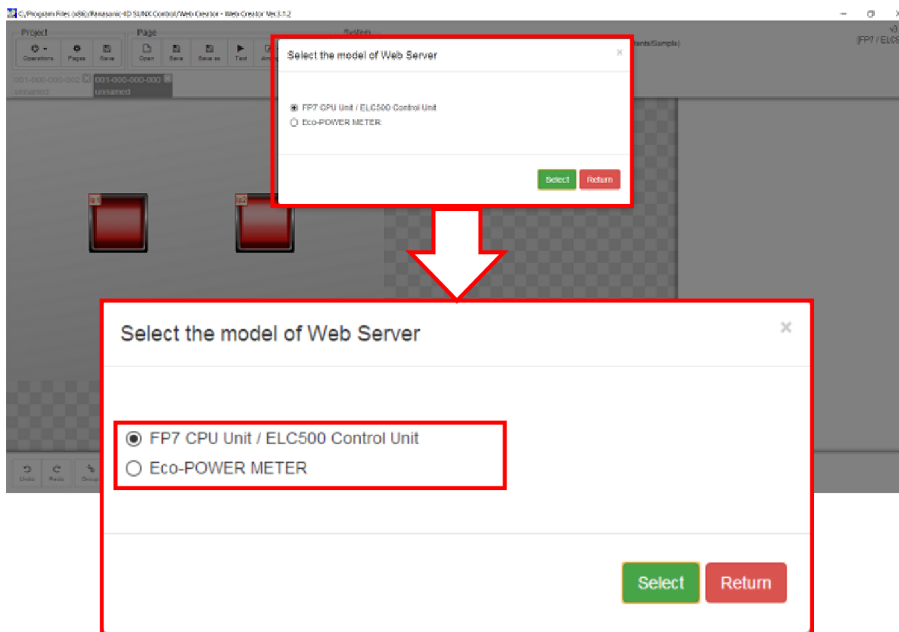
### 5.4.5 Creating Project Folder from Operation Menu

Create a new project folder from **Operations>New..** of the project menu of the Software Control Web Creator.

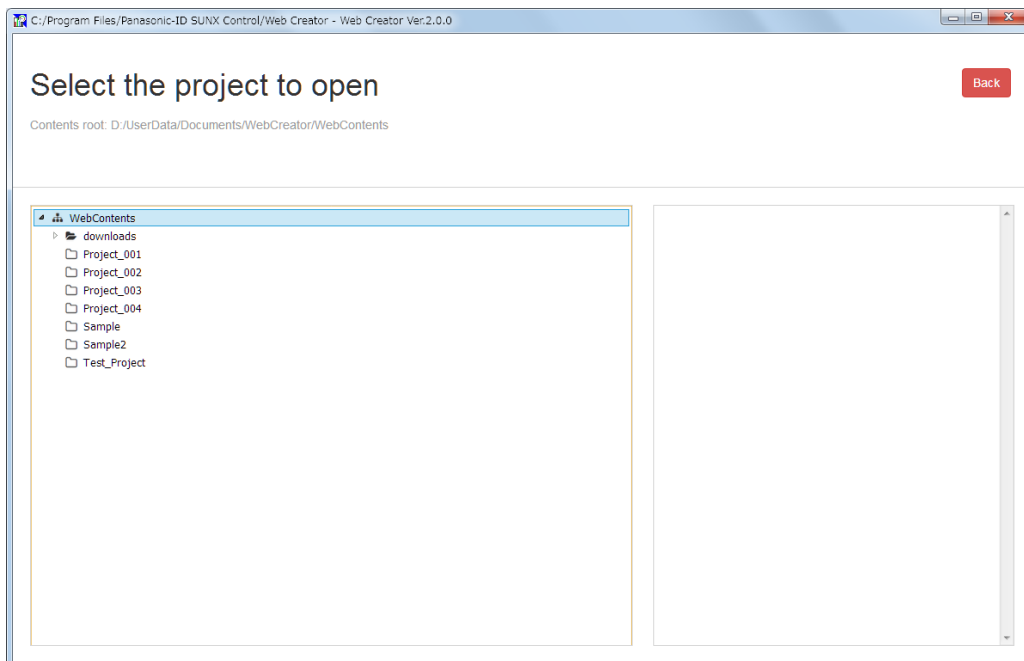
#### 1 2 Procedure

1. Select the model of the web server function that is used in a created project.

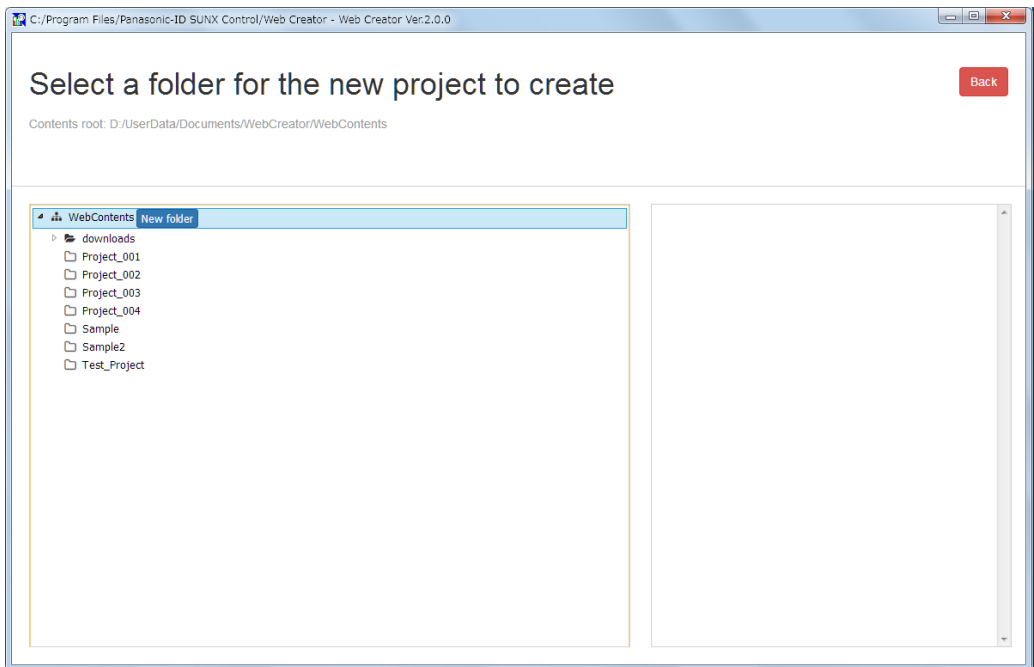
## 5.4 Project Folder



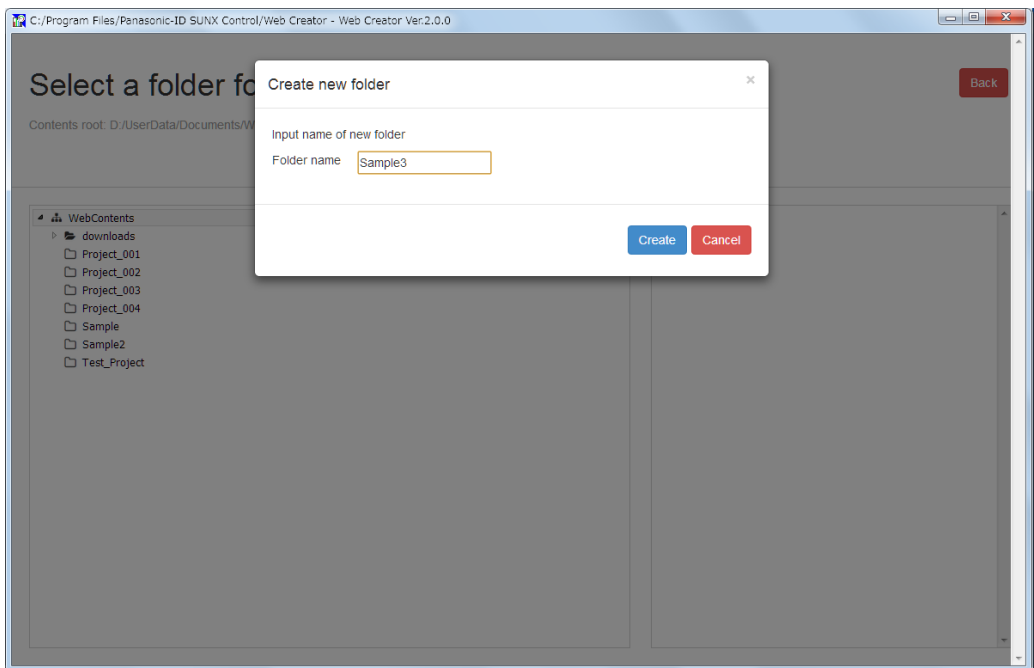
2. Specify a project folder newly created.



3. Clicking the WebContents (WebContents\_ECO) displays the [New folder] button.

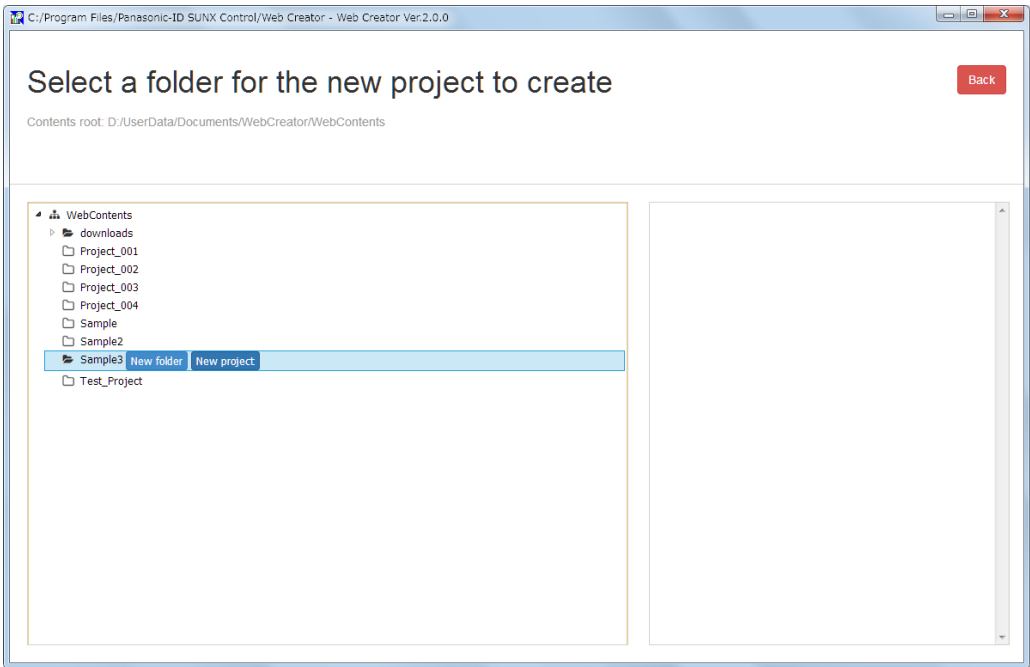


4. Click the [New folder] button to open the screen to enter a folder name. Enter a folder name, and click the [Create] button.

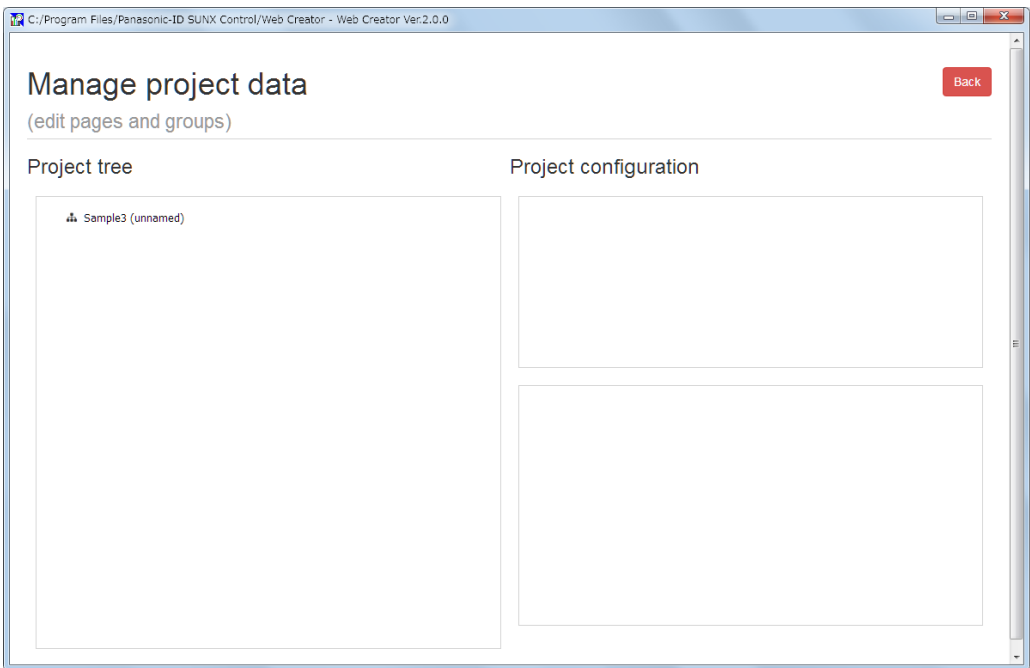


5. Click the [New project] button to create the project.

## 5.4 Project Folder



6. Once the project is created, the screen moves to the project management screen.



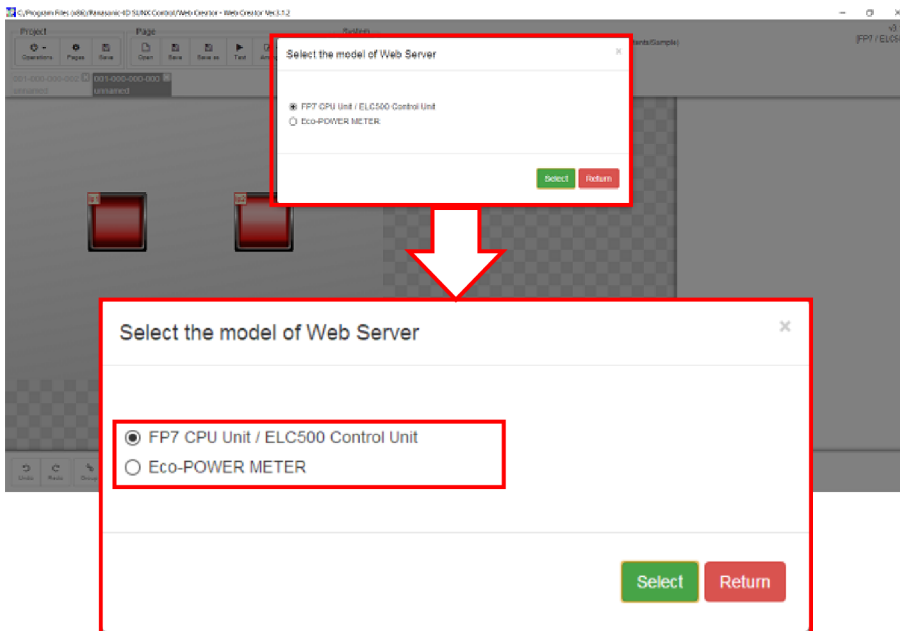
For creating groups or screens subsequently, carry out the creation from the project tree. For details, refer to ["5.5 Project Management"](#).

### 5.4.6 Specifying Project Folder from Operation Menu

Specify an existing project folder from **Operations>Open...** of the project menu of the Software Control Web Creator.

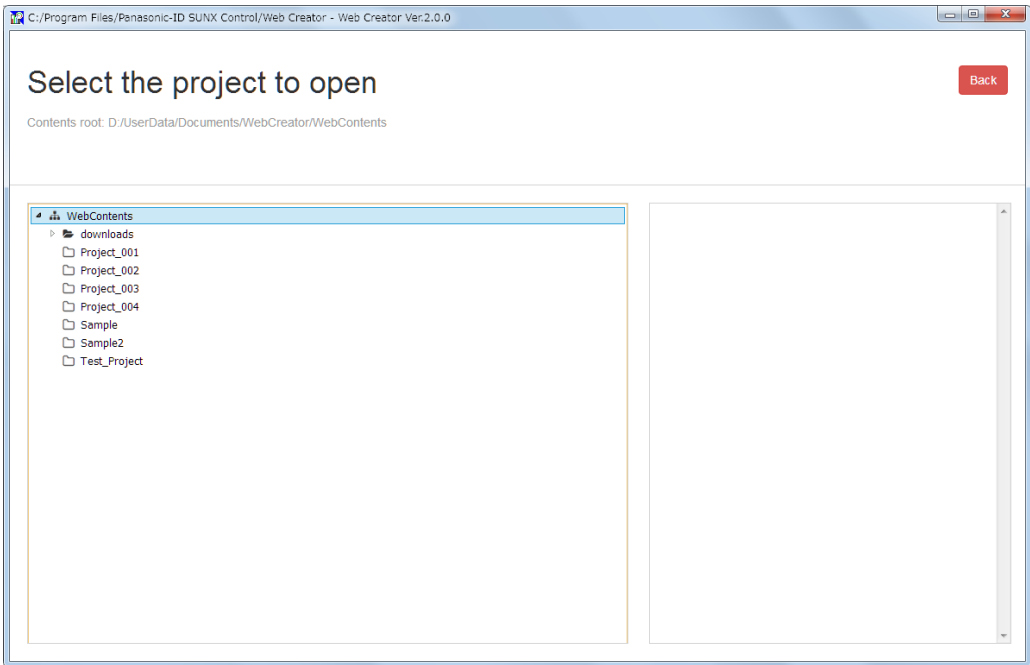
#### 1 2 Procedure

1. Select the model of the web server function that is used in a project to be read.

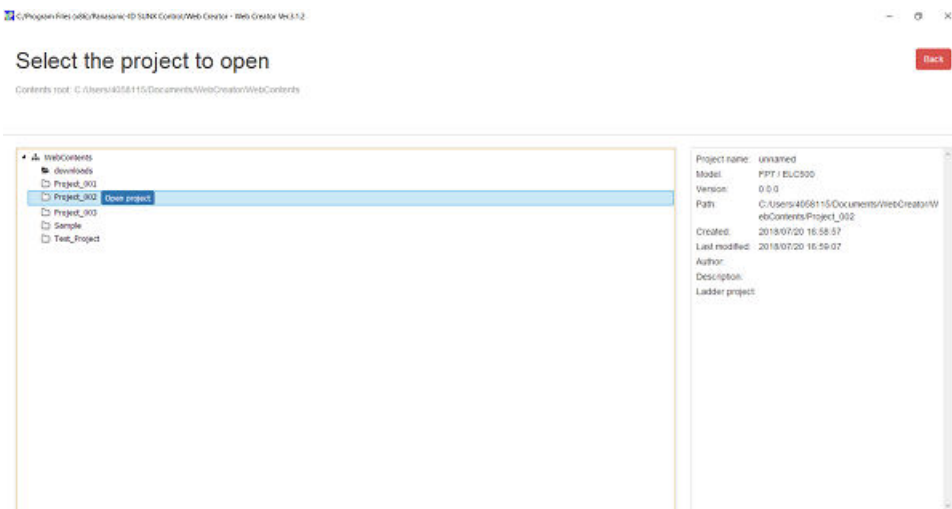


2. Specify an existing project folder.

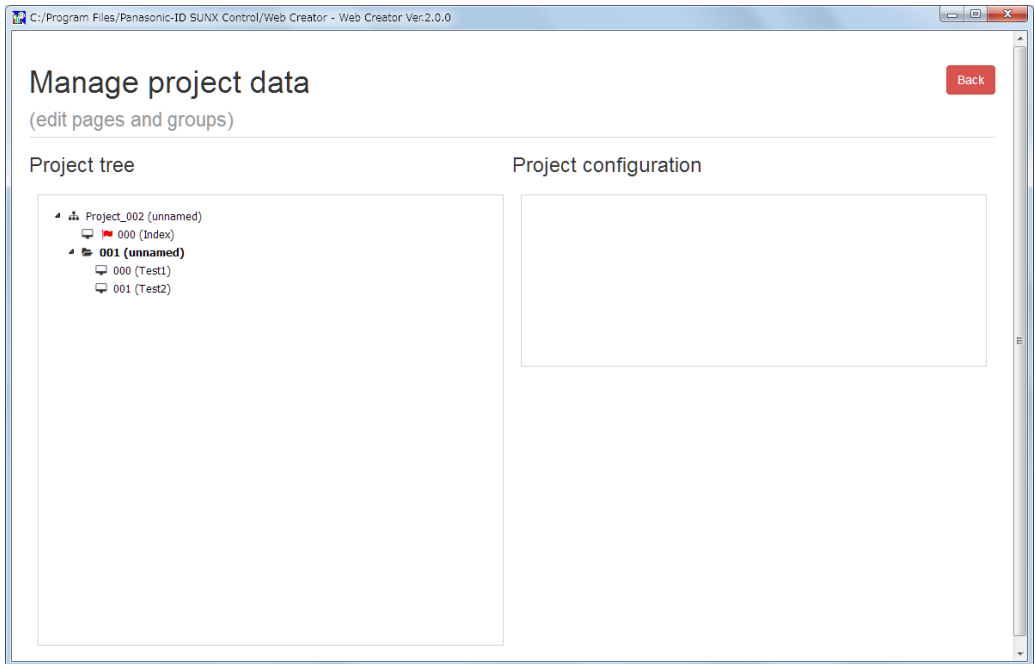
## 5.4 Project Folder



3. Clicking on the folder you want to open displays the [Open project] button. Click the button to open the project.



4. Once the project is opened, the screen moves to the project management screen.



For opening an existing screen subsequently, open it from the project tree.  
For creating groups or screens, carry out the creation from the project tree.  
For details, refer to ["5.5 Project Management"](#).

## 5.5 Project Management

### 5.5 Project Management

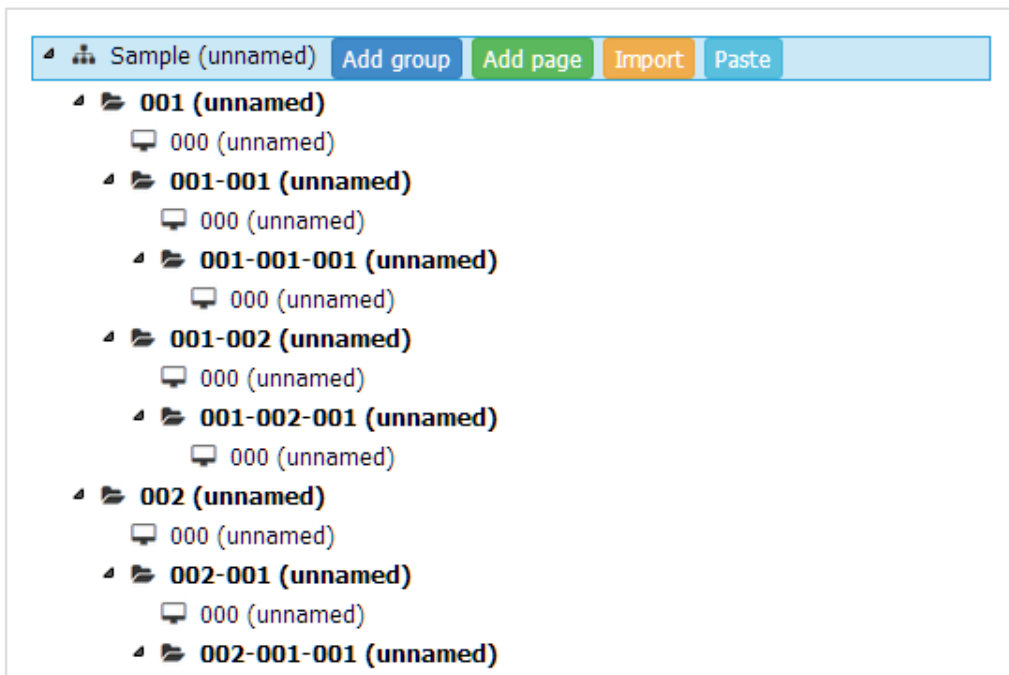
Select a project folder when starting the Software Control Web Creator.

#### 5.5.1 Configuration of Project Data

The project data of Software Control Web Creator is composed of a project, groups and screens.

#### Example of project configuration

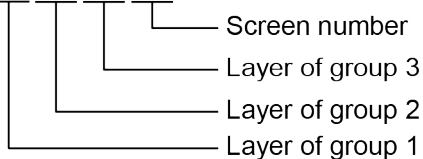
### Project tree



Up to 256 groups and 256 screens can be created for the whole project.

#### Configuration of screen number

XXX-XXX-XXX-XXX



Screen numbers start from 000 by group.

Screen numbers of the screens that are created in the root of a project and do not belong to any group start from 000-000-000-000.

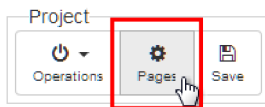


## 5.5.2 Project Setting

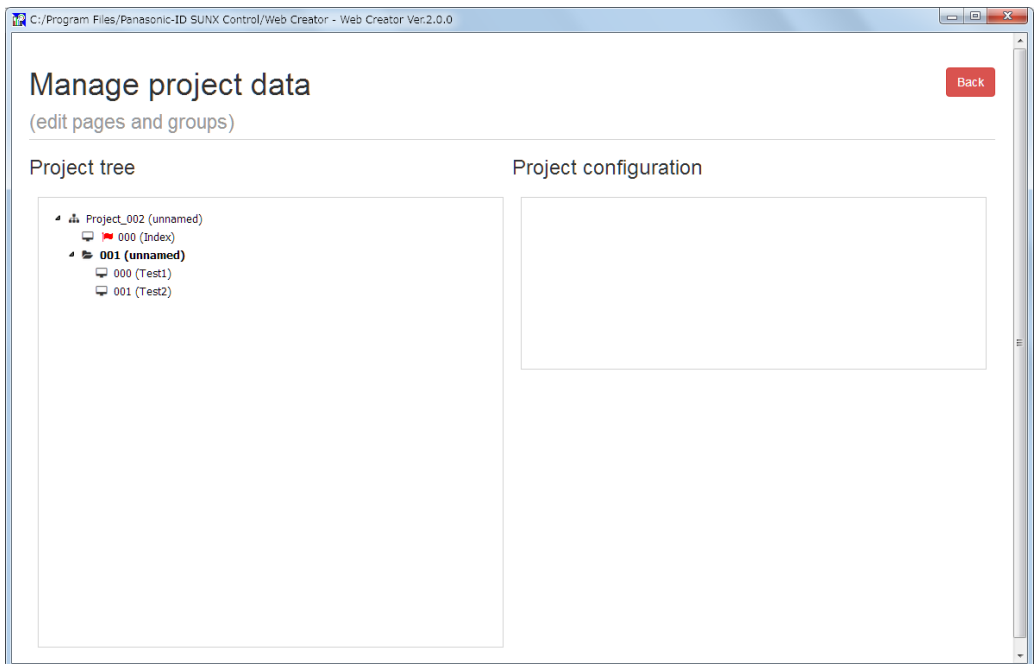
Configure the common setting for a project.

### 1 2 Procedure

1. Click **Pages** of the project menu.



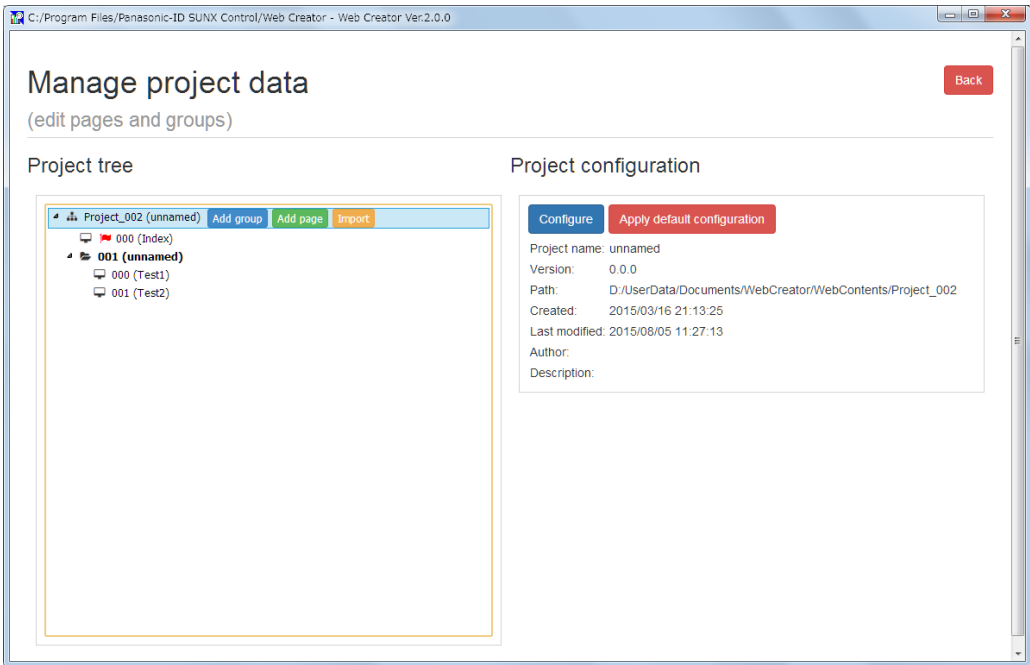
2. Open the project tree screen.



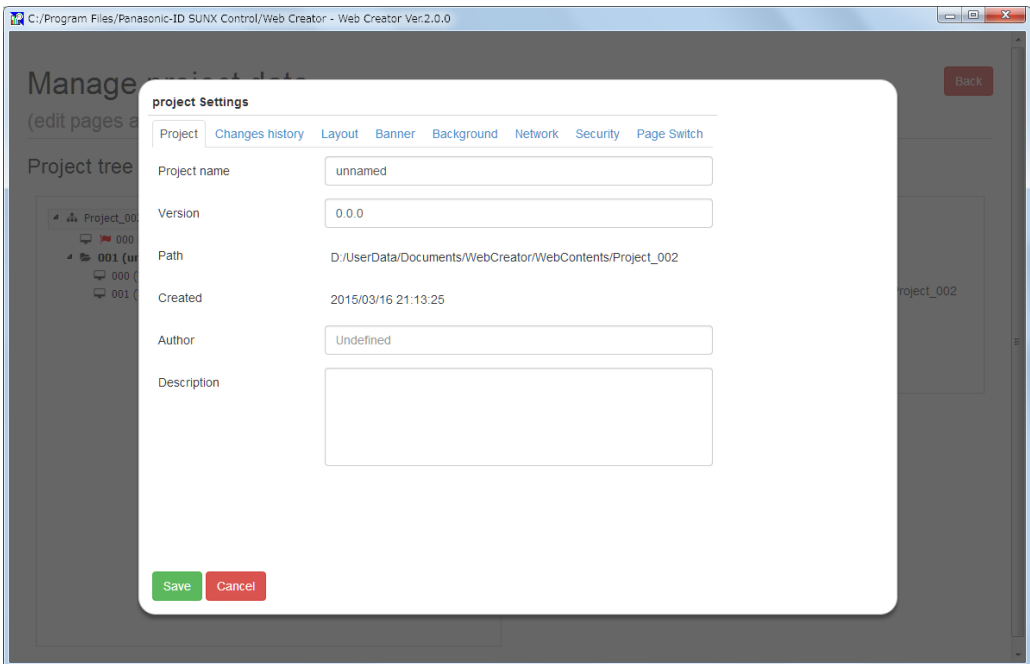
Click the project of the project tree.

3. Click the [Configure] button.

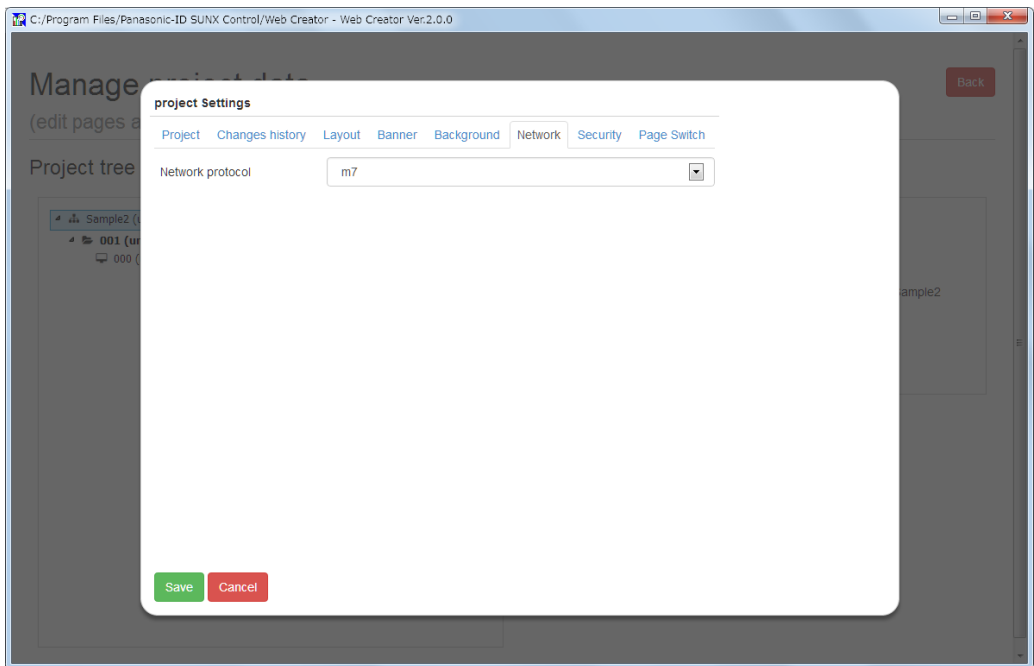
## 5.5 Project Management



4. Enter the project name on the "Project" tab.



5. Configure the setting on the "Network" tab.



It is not necessary to set an IP address when a communication destination party refers to any of the FP7, ELC500, and KW2M-X.

Its own IP address is automatically determined from the URL when connecting to the custom web.

When a communication destination party differs from the FP7, ELC500, and KW2M-X, set a communication destination by the procedure described in ["5.5.5 Creating Groups"](#) or ["5.5.6 Creating Screens"](#).

The "Layout ", "Background ", "Network" and "Security" settings of the project setting are the common settings to the groups and screens under this project.

### 5.5.3 Link with Ladder Projects

Ladder projects used for created web contents can be registered.

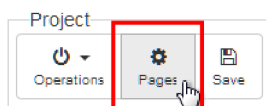
Registered ladder projects are output to an export destination when exporting a project.

For details of the export of projects, refer to ["5.5.11 Exporting Projects"](#).

This setting is available only for the project setting. This setting cannot be made from the group setting or screen setting.

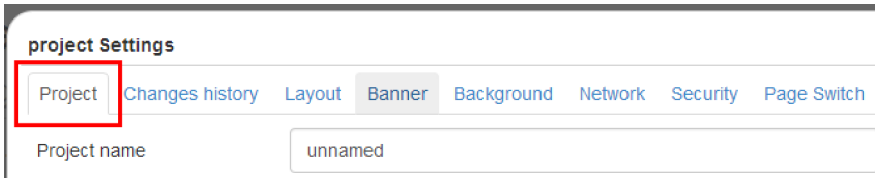
## 1 2 Procedure

1. Click **Pages** of the project menu.



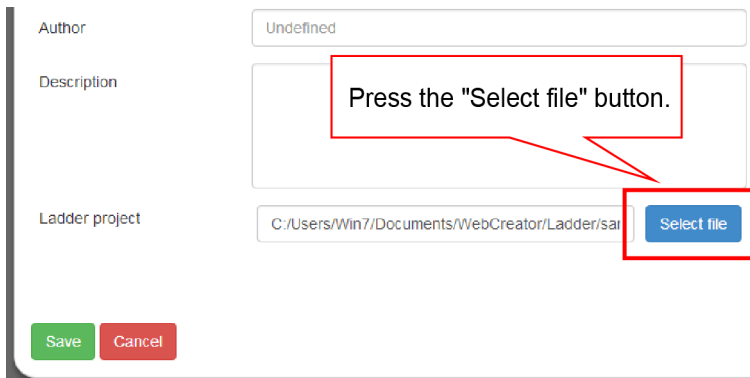
## 5.5 Project Management

2. After selecting a project of the project tree, open the advanced setting screen for the project setting.
3. Select the "Project" tab.



4. Select a ladder file.  
There are three methods of selecting ladder files.

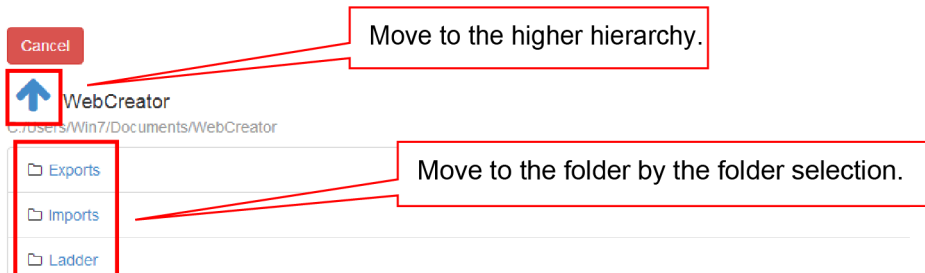
- Selecting method 1: Set the ladder file to be linked from "Select file".  
By this method, ladder files other than those in the drive in which the Software Control Web Creator has been installed cannot be selected.  
For selecting ladder files in another drive, refer to "Selecting method 2" and "Selecting method 3".



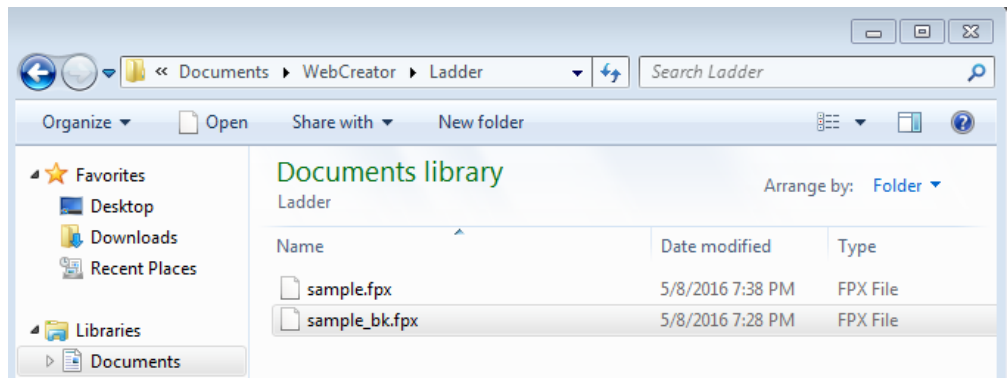
As the file reference screen opens, select a desired ladder file.

C:/Program Files/Panasonic-ID SUNX Control/Web Creator - Web Creator Ver.2.1.0

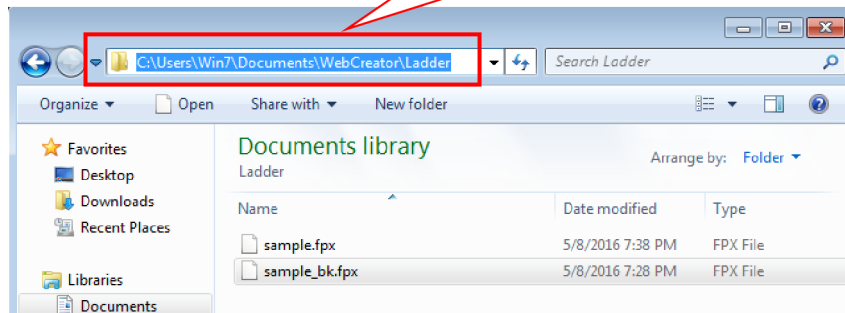
Please select a ladder project file.



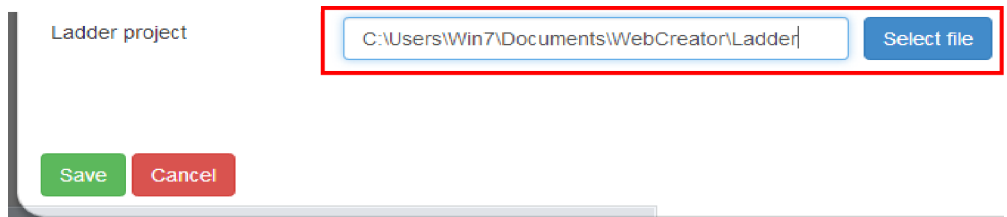
- Selecting method 2: Acquire the address of a ladder file from the explorer screen.  
Open the location of a ladder file to be linked.



The address is displayed by clicking this.



Copy the address of the ladder file to the ladder project address field of the advance setting screen by an operation such as right-clicking, and then press the [Select file] button.

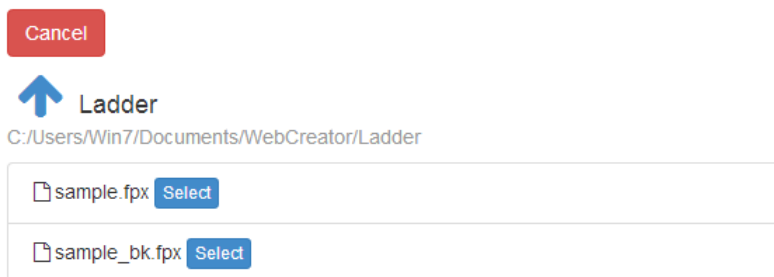


As the file reference screen opens, select a ladder file to be linked.

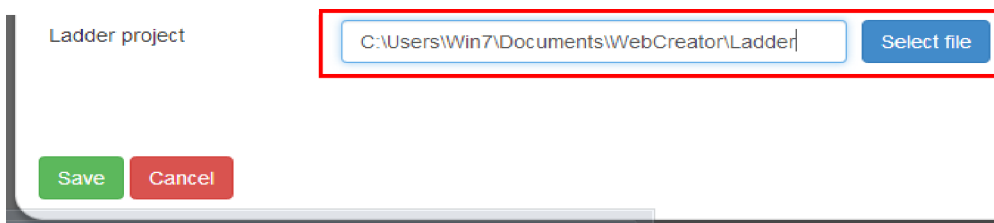
## 5.5 Project Management

C:/Program Files/Panasonic-ID SUNX Control/Web Creator - Web Creator Ver.2.1.0

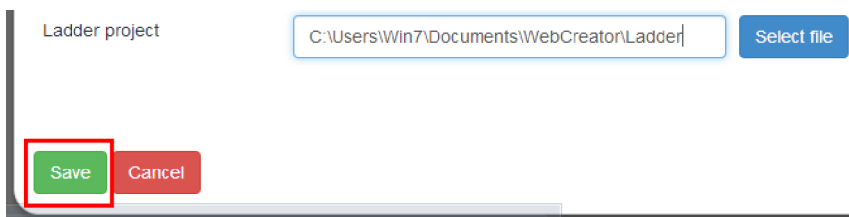
# Please select a ladder project file.



- Selecting method 3: The address of a ladder file can be directly input in the address field of ladder project.



5. After selecting a ladder file by any of the above methods, pressing the [Save] button completes the link with the ladder project.



### 5.5.4 Display Setting of Language Switching Menu

The setting whether to display or hide the language switching menu when monitoring the screen can be changed by changing the display setting of the language switching menu. (Up to Ver.2.1.0, the language switching menu is always displayed when a multilingual message has been registered.)

The language switching menu can be displayed at an arbitrary timing by the operation setting with items such as a switch.

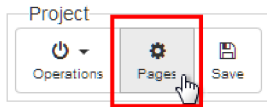
For details of the language switching function, refer to "[6.1.1 Multilingualization of Parts Display](#)".

The setting priority is as shown below. For the common setting, a next higher priority setting is applied.

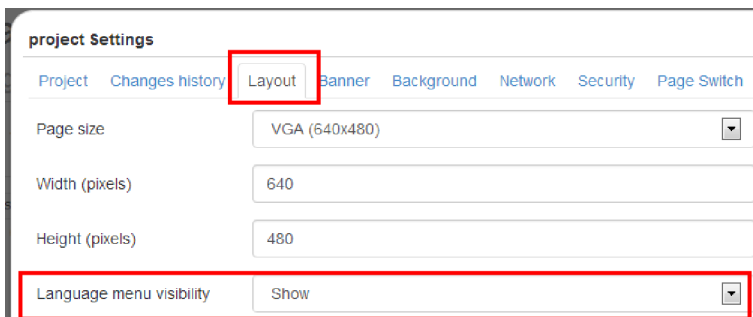
(Low) Project setting < Screen group setting < Screen setting (High)

## 1 2 Procedure

1. Click **Pages** of the project menu.

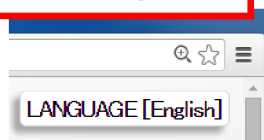


2. After selecting a project of the project tree, open the advanced setting screen for the project setting.
3. Select the "Layout" tab.
4. Change the setting of "Language menu visibility".

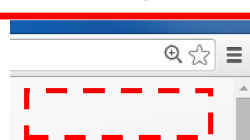


When "Hide" is set, the language switching menu is not displayed even when multiple languages have been registered.

When setting " Show"



When setting " Hide"



### 5.5.5 Creating Groups

Add groups to a project.

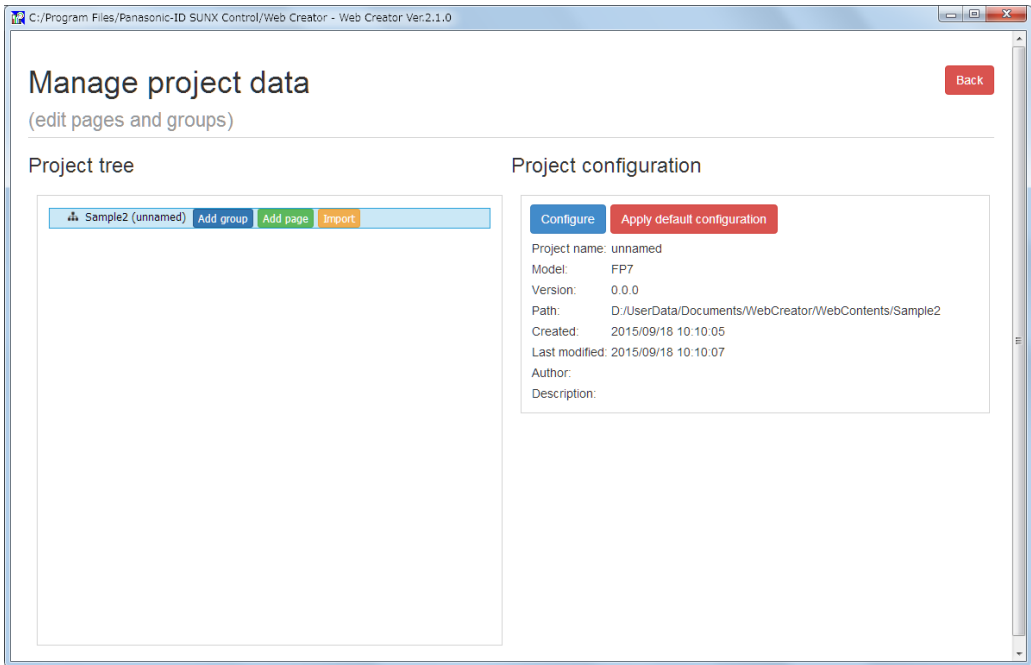
Groups can be added to up to three layers.

Up to 256 groups can be created in total for all layers.

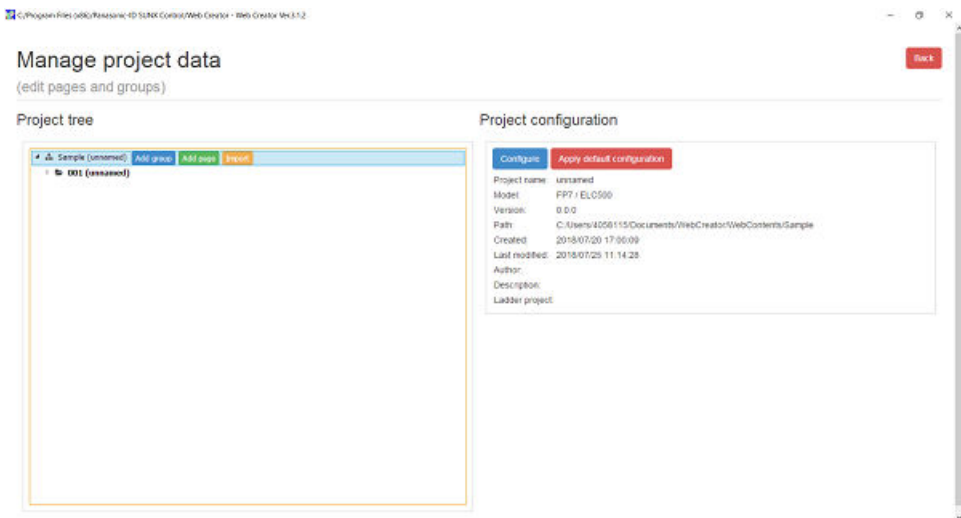
## 1 2 Procedure

1. Click the project of the project tree.

## 5.5 Project Management

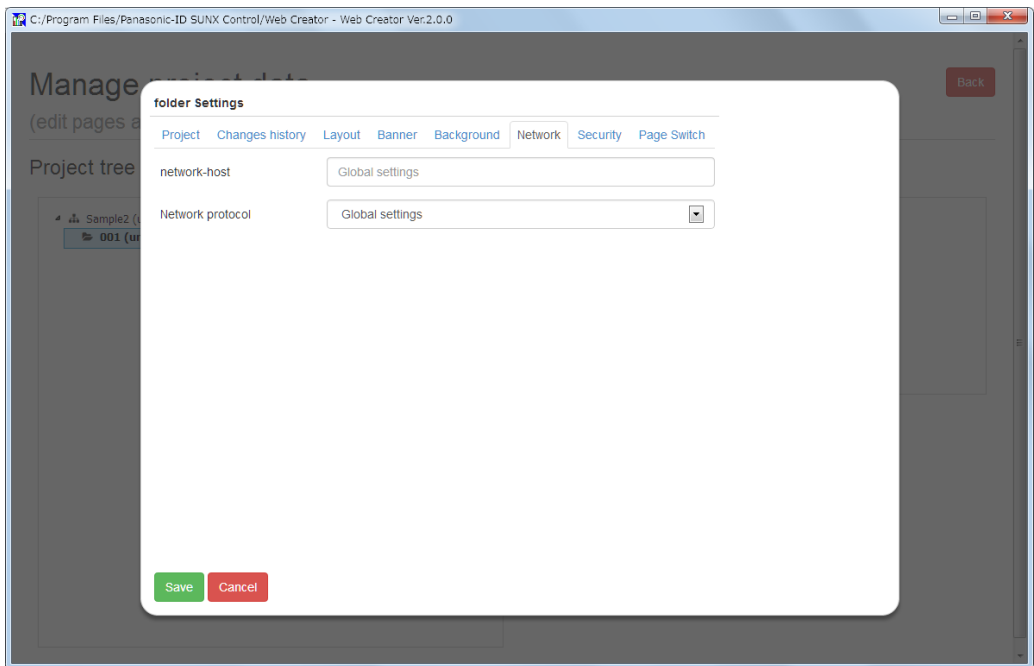


2. Click the [Add group] button.



3. Select a created group, and click the [Configure] button to configure the setting of the group.





The "Layout", "Background", "Network" and "Security" settings of the group setting are the common settings to the screens under this group.

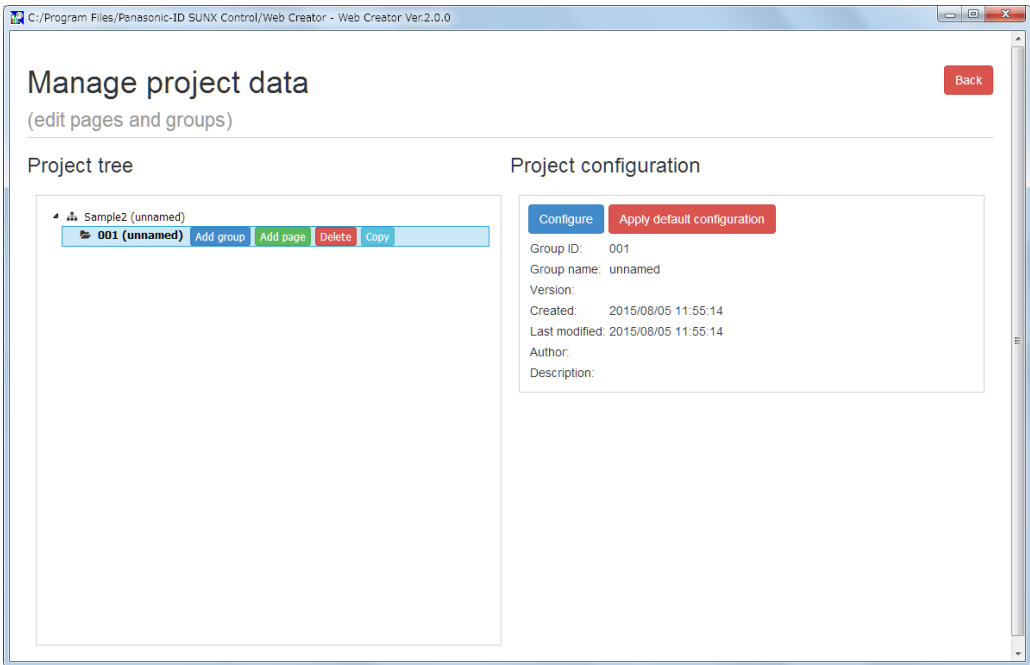
### 5.5.6 Creating Screens

Create a blank screen in the place right below the project or in a selected group. Up to 256 screens can be created for each project.

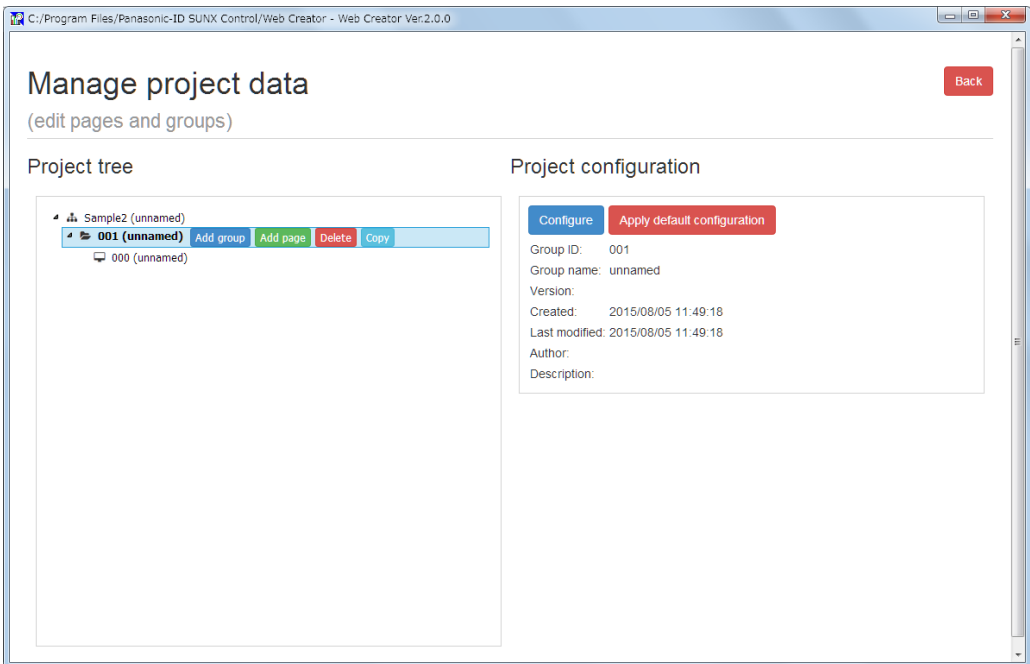
#### 1 2 Procedure

1. Click on a project or group of the project tree you want to create a screen.

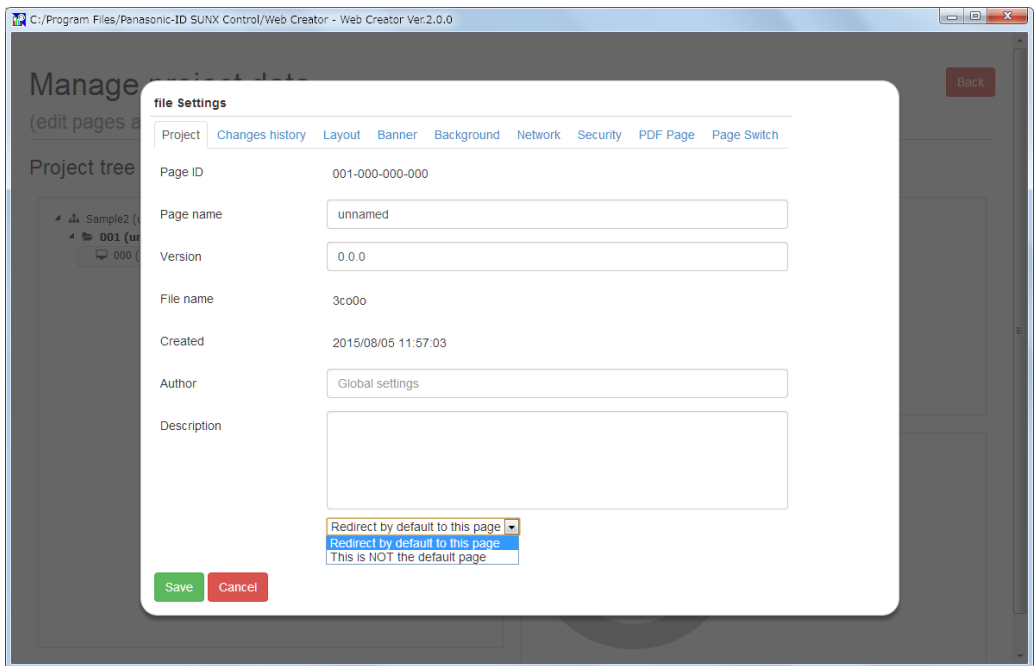
## 5.5 Project Management



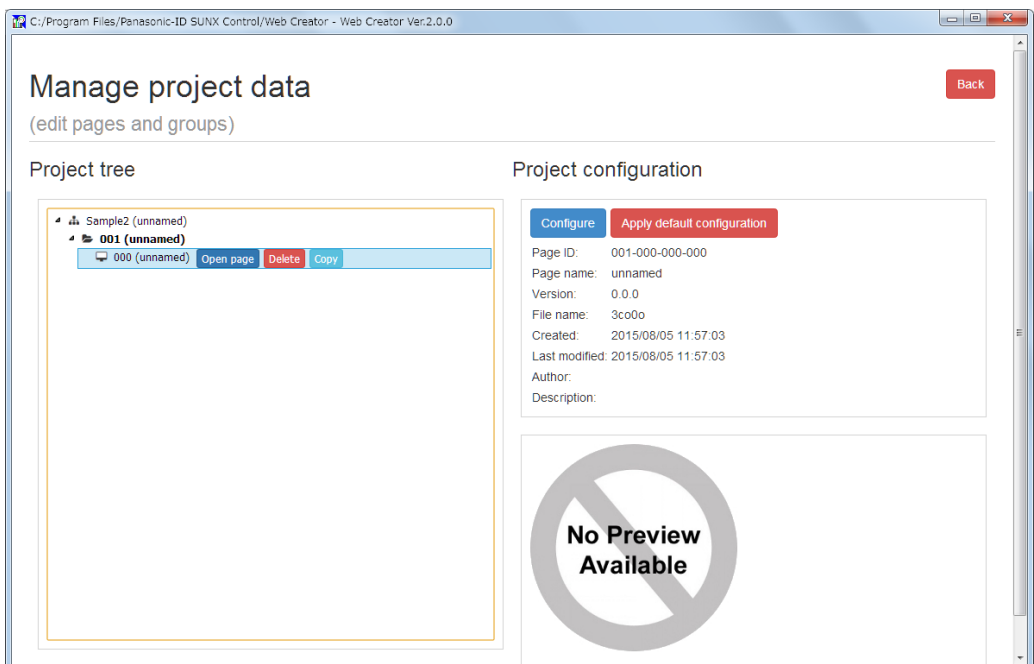
2. Click the [Add page] button.




3. Select a created screen, and click the [Configure] button to configure the setting of the screen.



4. Select the created screen, and click the [Open page] button to proceed to the screen editing.



Selecting "Redirect by default to this page" in "Project" under the "Configure" in the above step 3 displays a  mark in the project tree.

## 5.5 Project Management

The "Layout", "Background", "Network" and "Security" settings of the screen setting can be individually configured for each screen separately from the common settings of project and groups.



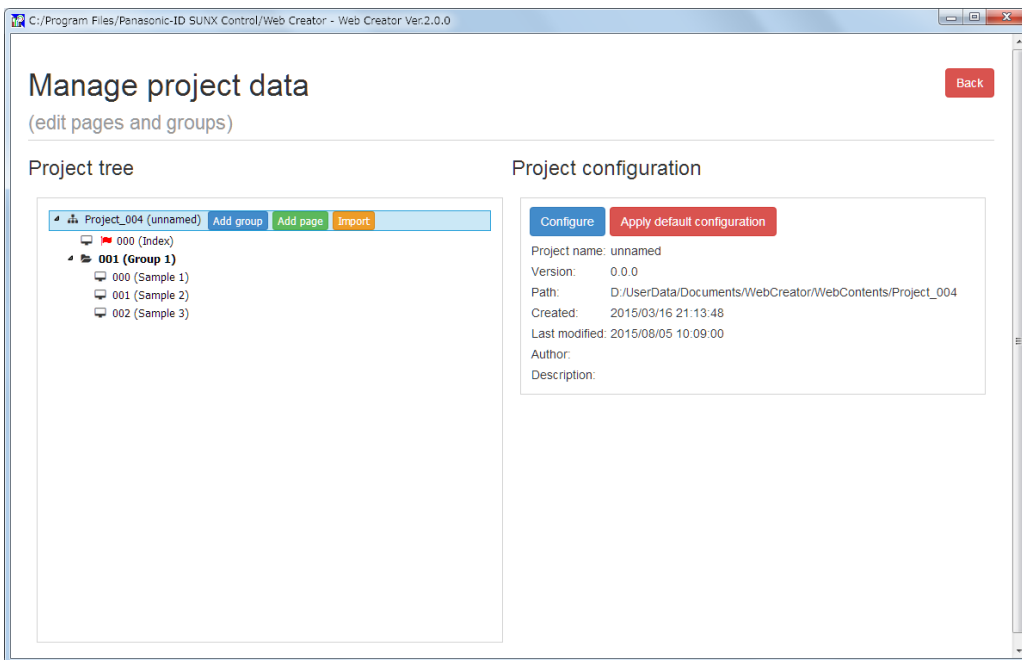
- When the initial screen has not been set, nothing will be displayed on the screen even when accessing the URL of the web server.
- The initial screen must be set.

### 5.5.7 Importing Other Project Screens

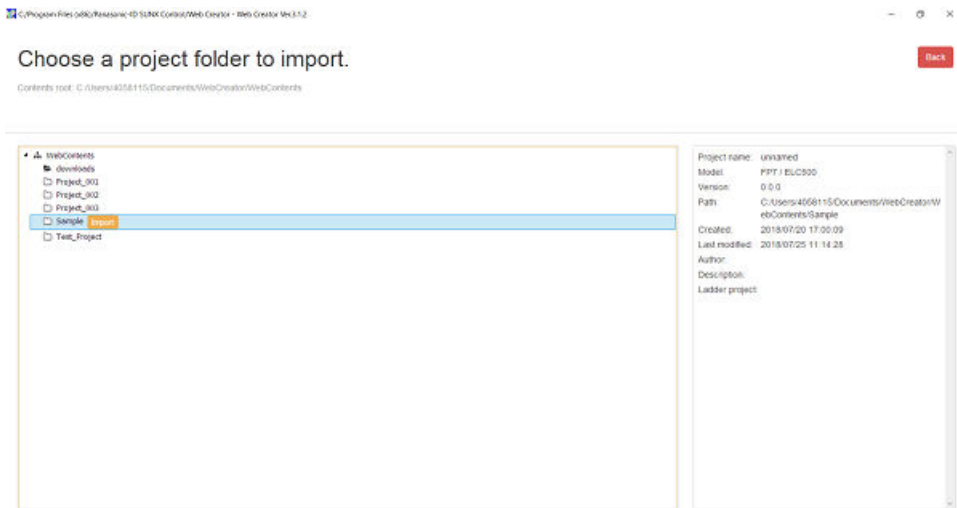
Screens created for other projects can be copied to a project currently created.

#### 1 2 Procedure

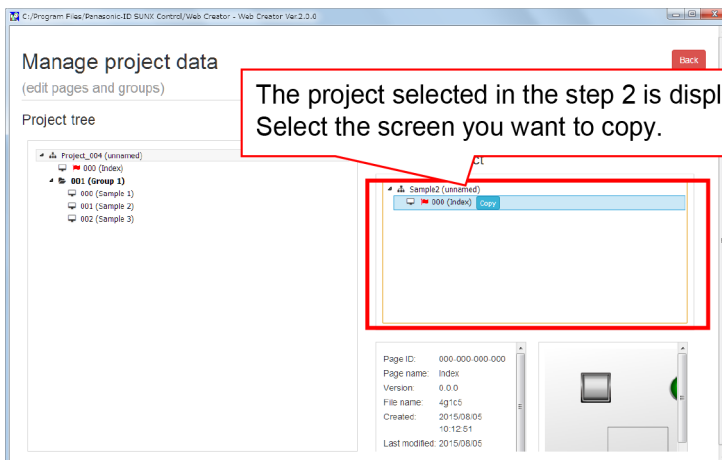
1. Select a project on the project tree, and click the [Import] button.



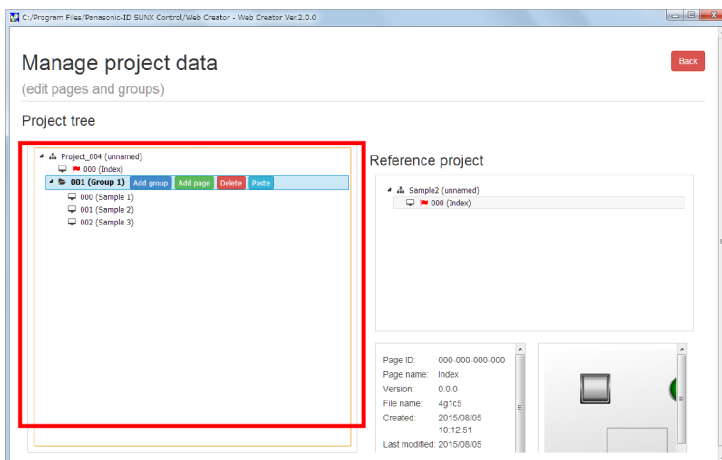
2. Select the project of the screen you want to import, and click the [Import] button.



3. Select a screen or group to be imported, and click the [Copy] button.

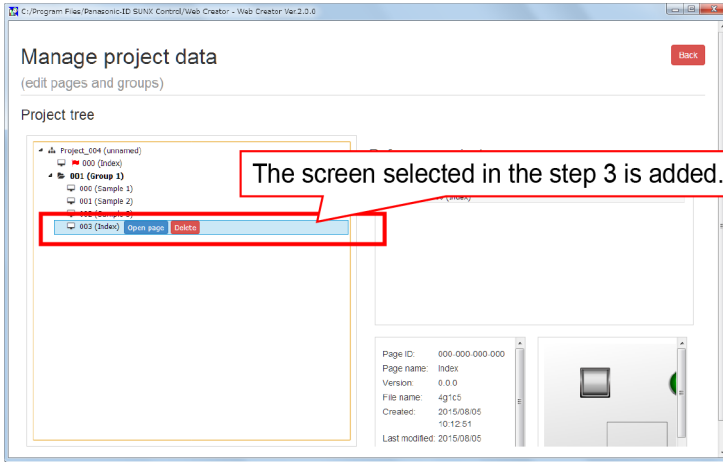


4. Select a destination project or group.



## 5.5 Project Management

5. Press the [Paste] button to complete the import.

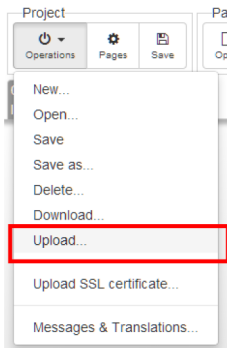


### 5.5.8 Upload

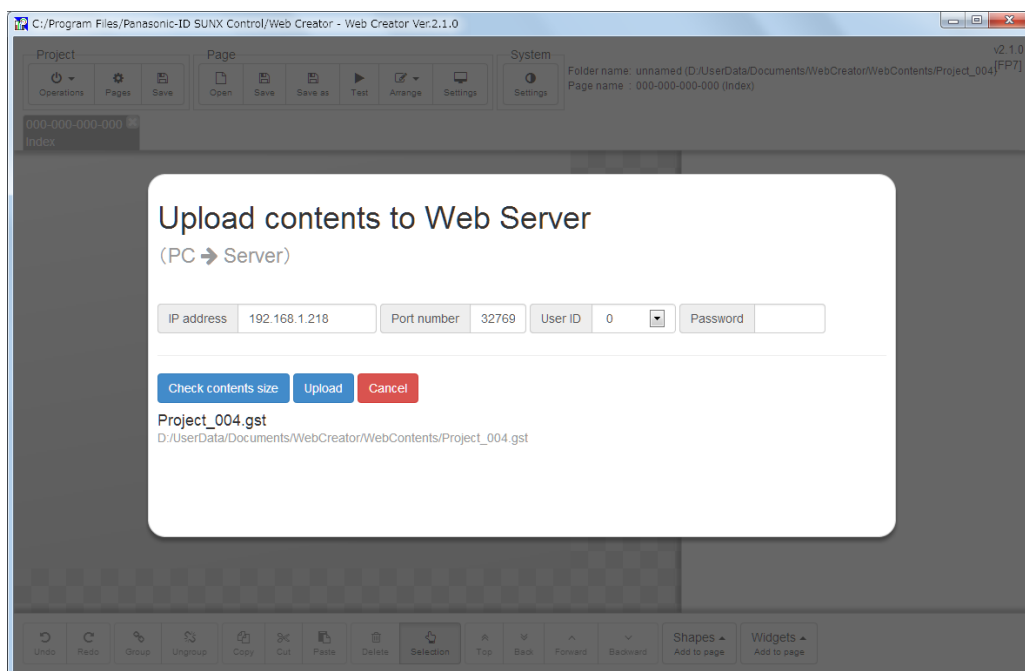
Transfer saved project data to the Web Server function.

#### 1 2 Procedure

1. Click "Upload" of the project menu.

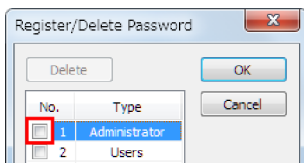


2. Confirm the IP address, user ID and password of the destination Web Server, and click [Upload].



For the IP address of the upload destination, the IP address specified for the host for test, upload or download is shared.

The user ID and password varies by the security setting of FP7 and ELC500.

Security setting	User ID and Password
None	Connect as a master user. User ID: 0, Password: Not required
FPWIN GR7 security settings (FP7 only)	User ID: Number for administrator used when the password has been registered. (Figure below) Password: Administrator password used when the password has been registered. 
FPWIN Pro7 security settings	User ID: 1, Password: Password registered in Security Settings. (How to confirm) <b>Tools&gt;PLC Security Settings&gt;Register/Delete Password</b> (How to confirm) <b>Online&gt;Security Settings</b>

- When the web server function model for the project of the created contents and the web server function model actually connected are different, the contents cannot be uploaded.
- When uploading contents to the KW2M-X, use the following settings; Port number: 32769, User ID: 1, Password: SystemWeb.

## 5.5 Project Management

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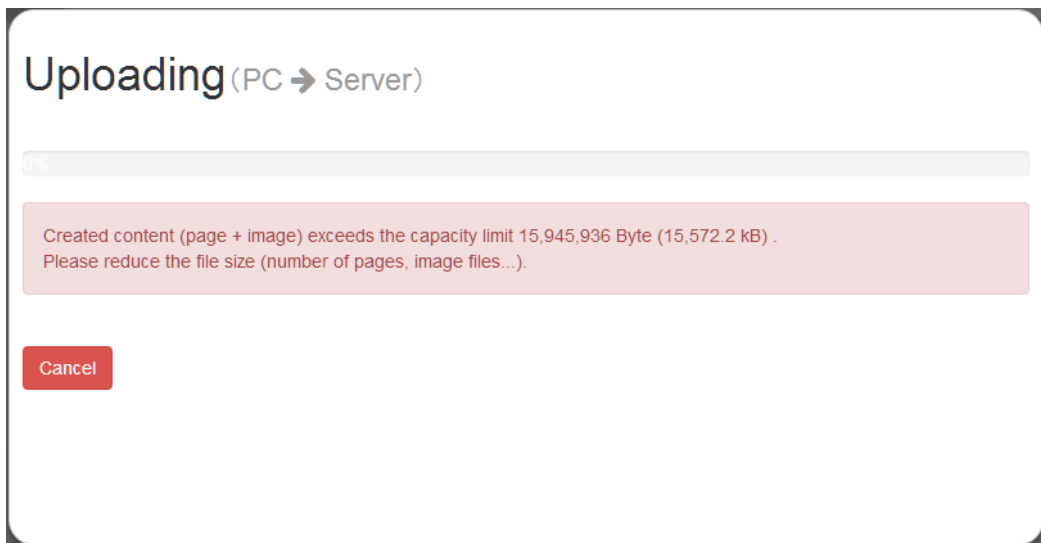
### When uploading data exceeding the content capacity

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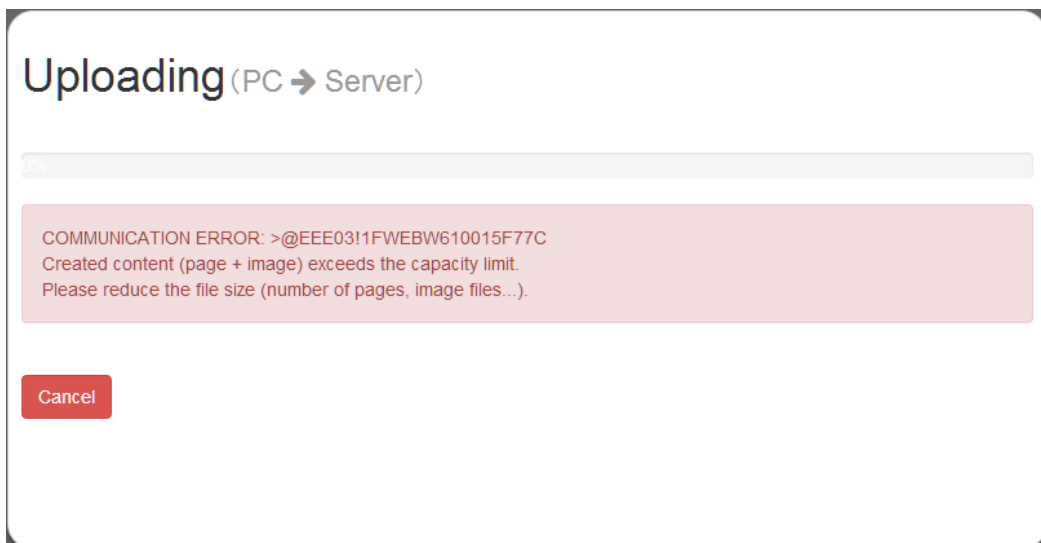
The following message is displayed when data exceeding the content capacity of any of the FP7, ELC500, and KW2M-X is uploaded.

In this case, change the data size to be within the content capacity of any of the FP7, ELC500, and KW2M-X, and upload it again.

- For FP7 CPU unit Ver.4.10 or later (with EtherNet/IP) / Ver.3.40 or later (without EtherNet/IP) or EL500 control unit



- When the version of the FP7 CPU unit is not the above versions or when KW2M-X is used



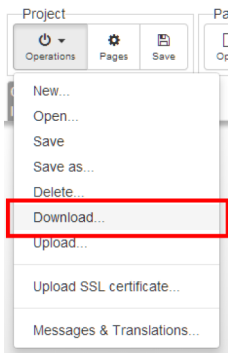


**5.5.9 Download**

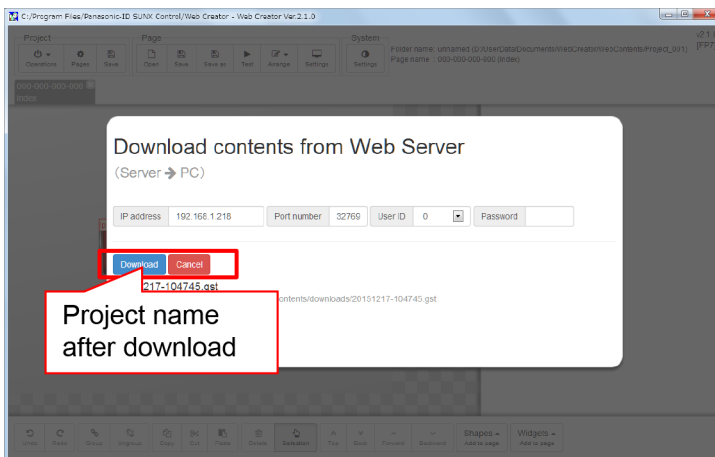
Transfer project data to a PC from the Web Server function.

**1 2 Procedure**

1. Click "Download" of the project menu.



2. Confirm the IP address, user ID and password of the source Web Server, and click [Download].

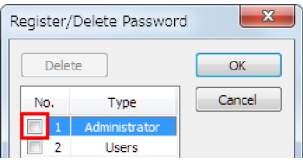


For the IP address of the download destination, the IP address specified for the host for test, upload or download is shared.

- Downloaded project data is automatically saved in the "WebContents/downloads" folder or "WebContents\_ECO/downloads" folder separately from the project currently edited. The project name after saving is automatically created from the date and time information at the time of downloading the data. After the completion of the download operation, the automatically downloaded project opens.
- The user ID and password varies by the security setting of FP7 and ELC500.

Security setting	User ID and Password
None	Connect as a master user.

## 5.5 Project Management

Security setting	User ID and Password
	User ID: 0, Password: Not required
FPWIN GR7 security settings (FP7 only)	<p>User ID: Number for administrator used when the password has been registered. (Figure below)</p> <p>Password: Administrator password used when the password has been registered.</p>  <p>(How to confirm) <b>Tools&gt;PLC Security Settings&gt;Register/Delete Password</b></p>
FPWIN Pro7 security settings	<p>User ID: 1, Password: Password registered in Security Settings.</p> <p>(How to confirm) <b>Online&gt;Security Settings</b></p>

- When the web server function model for a project currently being edited and the destination web server function model are different, the project cannot be downloaded. Example) When creating a FP7 and ELC500 project, projects cannot be downloaded from other models than FP7 and ELC500.
- When downloading contents from the KW2M-X, use the following settings; Port number: 32769, User ID: 1, Password: SystemWeb.

### 5.5.10 Importing Projects

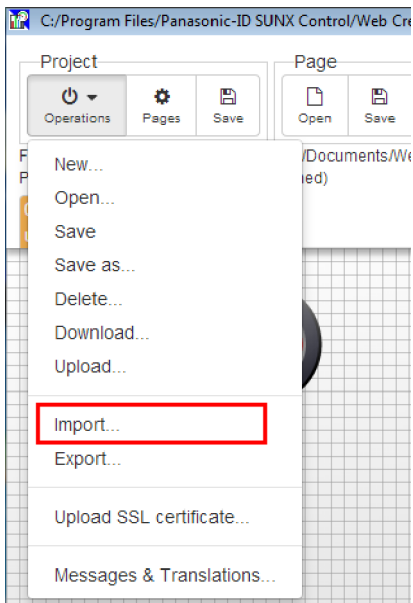
Project data that has been already exported can be loaded by the project menu of Software Control Web Creator **Operations>Import...**

For performing this operation, store the project file to be imported in the "WebCreator\Imports" folder in advance.

When storing a project file, use the project data that is output by the export operation.

#### 1 2 Procedure

1. Store an exported project in the "WebCreator\Imports" folder in advance.  
For details of import folders, refer to "[4.2 Folder Structure of Software Control Web Creator](#)".
2. Click "Import" of the project menu.

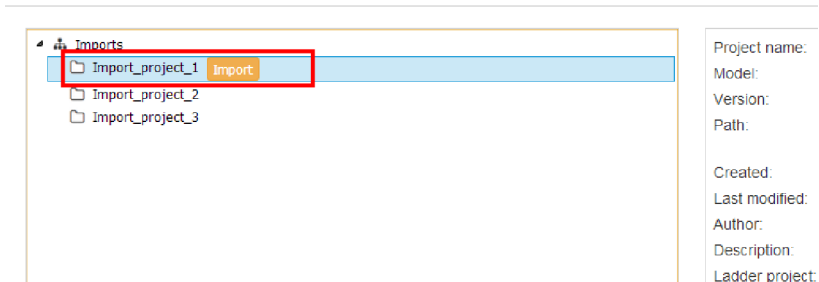


3. Select a project to be imported, and click the [Import] button.

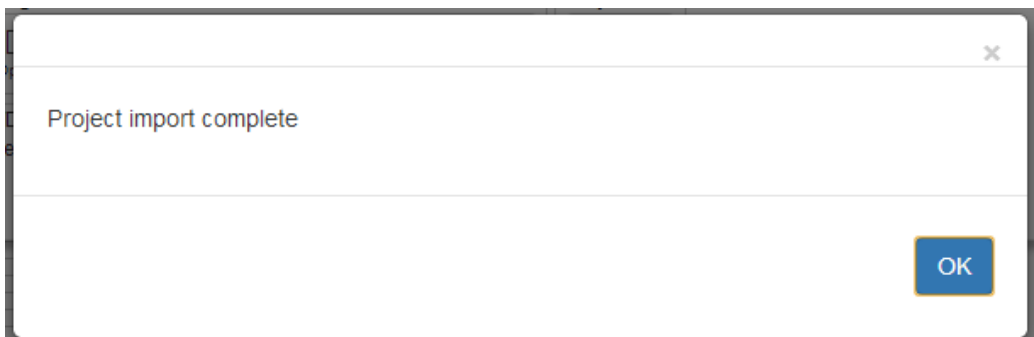
C:/Program Files/Panasonic-ID SUNX Control/Web Creator - Web Creator Ver.2.1.0

## Please select the folder to import

Contents root: C:/Users/Win7/Documents/WebCreator/Imports



4. The import operation will be complete.



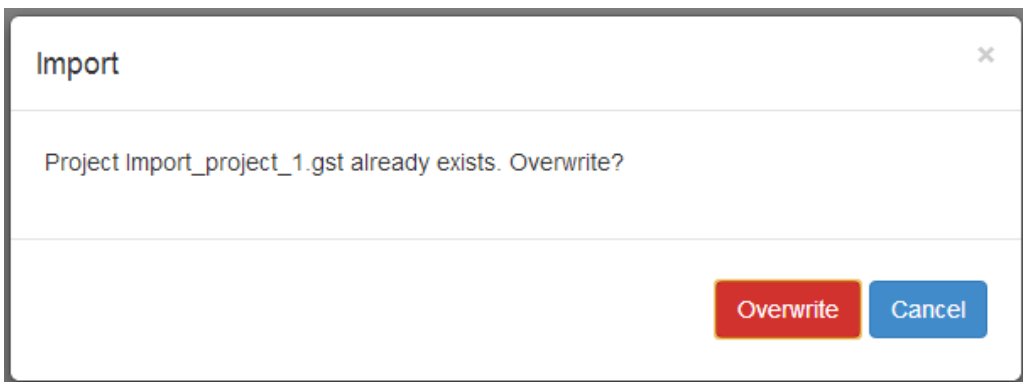
## 5.5 Project Management

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Various imported files are automatically stored in the following folder.

Imported data	Storage location
Project	For FP7 and ELC500: WebCreator\WebContents
	For KW2M-X: WebCreator\WebContents_ECO
Various files such as images	Various folders under WebCreator\WebCommons
Ladder file	WebCreator\Ladder

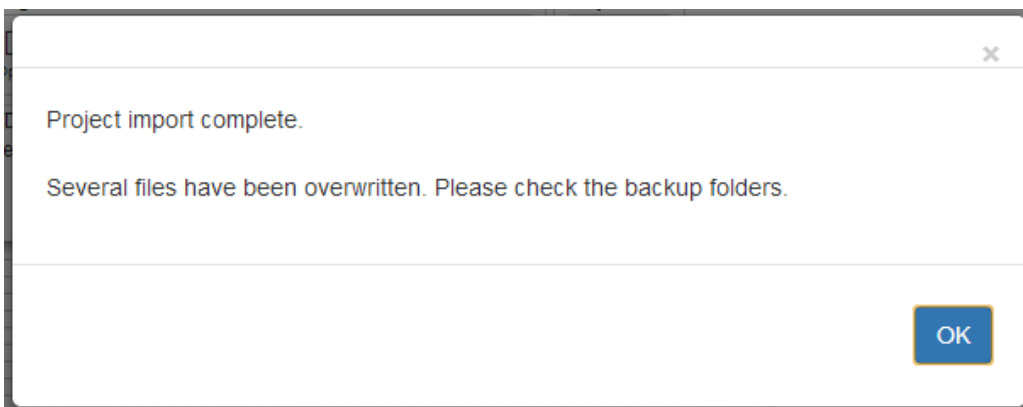
**If a project with the same name exists in the import destination, a message asking whether you want to overwrite the project is displayed.**



If a file with the same name exists in the import destination, the file with the same name in the import destination is backed up and then importing is executed.

Note that backup will not be executed if the contents of the file are the same.

**When a file name with the same name is backed up, the following message is displayed.**



### Structure of backup file folders

---

The storage locations of backup files are as follows.

For details of the folder structure, refer to Diagram of folder structure below.

- Various files such as images

They are stored in the following folders under WebCreator\WebCommons.

Data type	Storage location of backup files
Audio file	audio_bk
Switch operation sound	beeps_bk
PDF file	pdf_bk
Web part image	img_bk
Background image	img\backgrounds_bk
Text font file	img\cfonts_bk
Texture file	img\textures_bk
Moving image file	img\video_bk

- Ladder files

Data type	Storage location of backup files
Ladder file	WebCreator\Ladder_bk

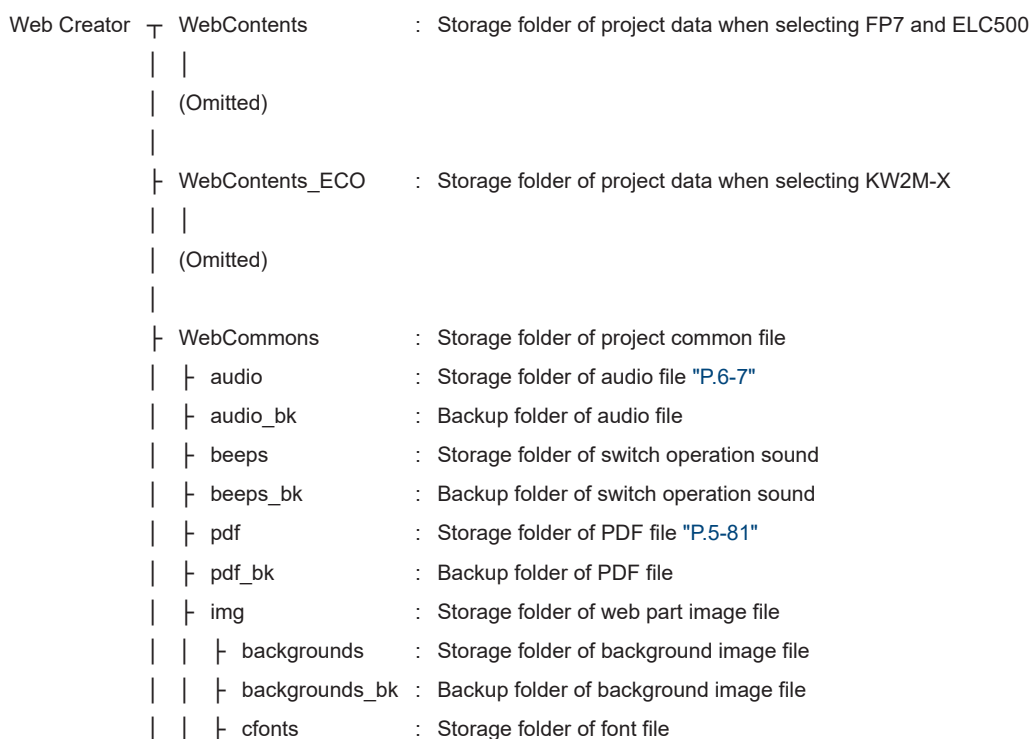
The storage period of backup files is until the next import operation.

Once a new import operation is performed, all the previous backup folders will be deleted.

Perform the operation considering the necessity of backedup files.

As shown below, the folders in which backup files are stored are created in the same location as the original folders

### Diagram of folder structure





3. The message will be displayed and the export operation will be complete.

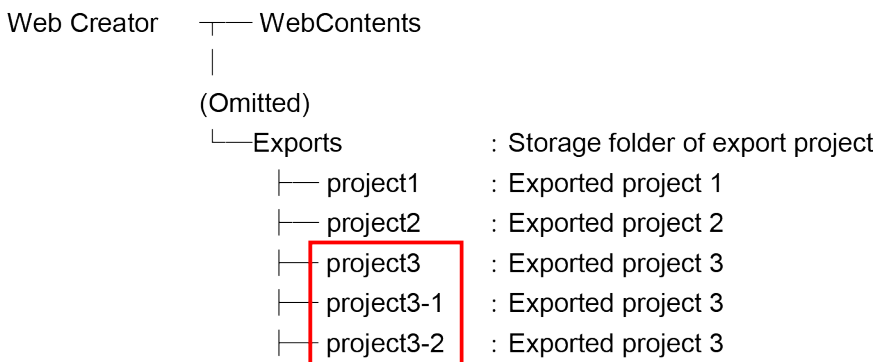


The exported project is stored in the "WebCreator\Exports" folder.

For details of export folders, refer to ["4.2 Folder Structure of Software Control Web Creator"](#).

- For performing the import operation, store the folder that is output in this operation in the "WebCreator\Imports" folder.  
For details, refer to ["5.5.10 Importing Projects"](#).
- The export operation can be performed for multiple projects.
- Exported projects are stored in separate folders by project name.
- When a project with the same name already exists in the export destination, a serial number will be added to the end.

**Diagram of folder structure**



When projects with the same name are exported, serial numbers will be added to the end of each project name.

**5.5.12 Multilingual Message Setting**

Messages displayed on message parts, labels of other parts, or displayed characters are defined.

Ver.3.1.0 supports the following languages.

Abbr.	Language	Abbr.	Language
en	English	vi	Vietnamese

## 5.5 Project Management

Abbr.	Language
zh	Chinese
hi	Hindi
es	Spanish
ru	Russian
fr	French
ar	Arabic
pt	Portuguese
ms	Malay
bn	Bengali
ja	Japanese
de	German
ur	Urdu
it	Italian
ko	Korean

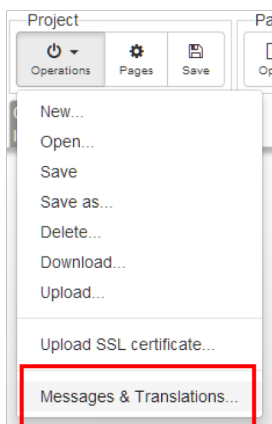
Abbr.	Language
fa	Farsi
tl	Tagalog
th	Thai
tk	Turkish
da	Danish
el	Greek
id	Indonesian
fi	Finnish
nl	Dutch
no	Norwegian

Up to ten languages can be registered.

The language of the PC used when creating a project is registered as the language initially registered for the message setting.

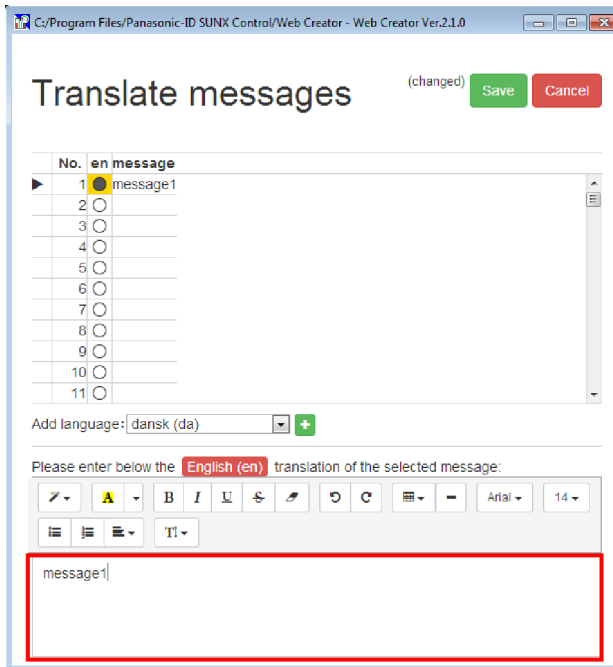
### 1 2 Procedure

1. Click **Operations>Messages & Translations...** in the project menu.

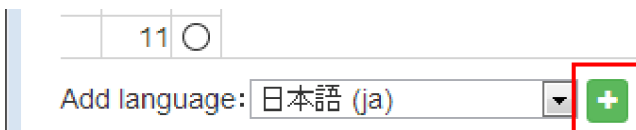


2. Click a message number, select a number that a message is registered, and enter a message to be registered in the frame at the lower part of the screen.

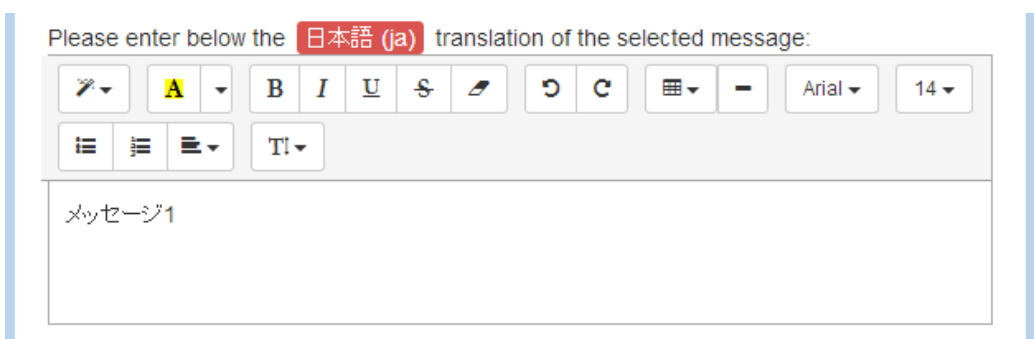




3. When registering English following the above step, select "English (en)" from the "Add language" drop-down list in the middle of the screen, and click the right "+".



4. As well as the case of Japanese, enter a message to be registered in English within the frame at the lower part of the screen.

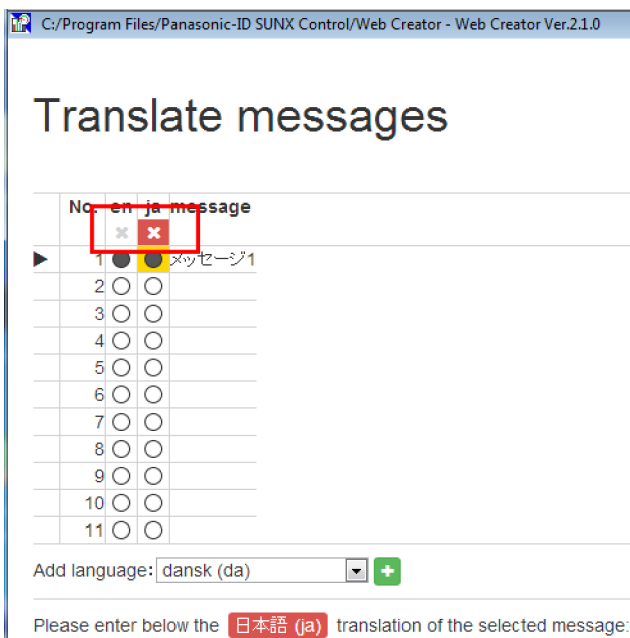


- is displayed in the column of the number/language that a message is registered.
- is displayed in the column no message is registered.

5. For deleting an added language, click "x" of the language on the screen.

## 5.5 Project Management

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(Note 1) All the registered messages in the deleted language are cleared.

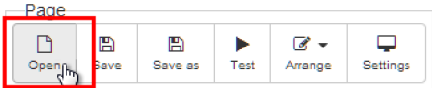
## 5.6 Screen Editing

### 5.6.1 Open

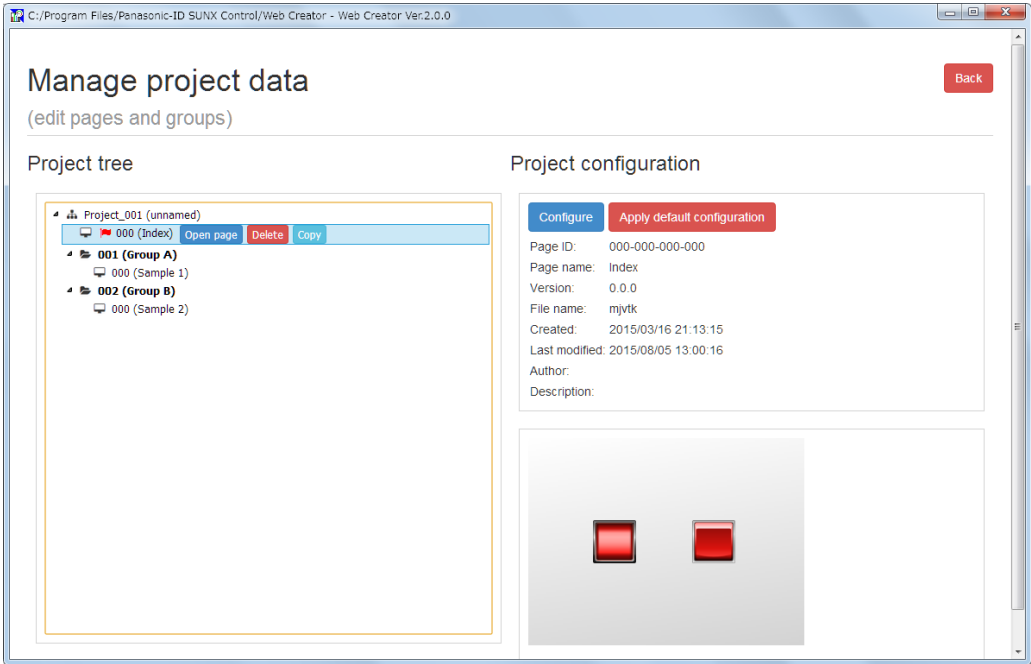
Open screen data created in a project.

#### 1 2 Procedure

1. Click **Open** of the screen menu.



2. Select a screen to be edited on the project tree, and click the [Open page] button.

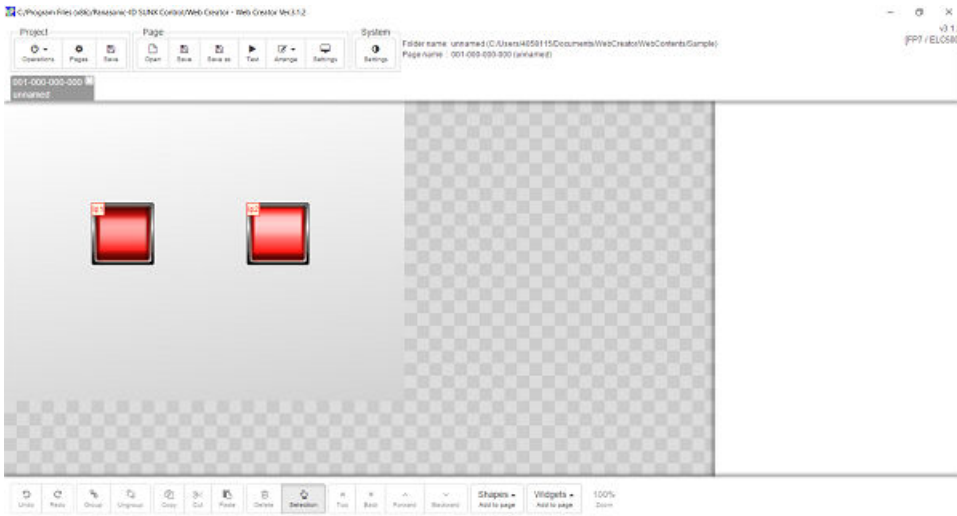


The  mark indicates the initial screen.

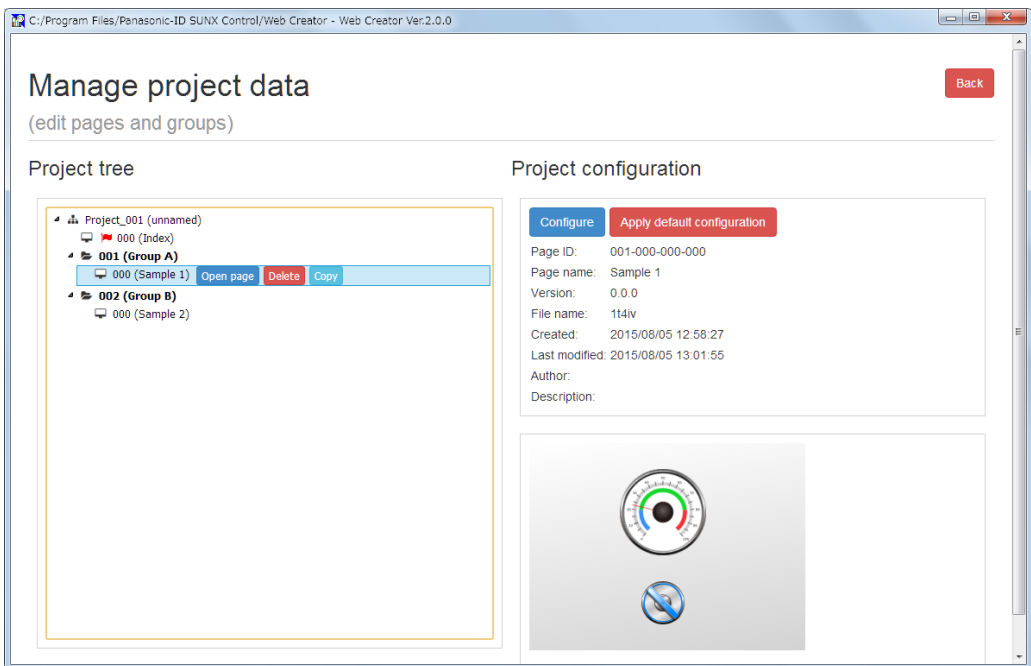
The preview of the screen is displayed in the lower right of the screen so that you can confirm the selected screen.

3. The edit screen for the selected screen opens.

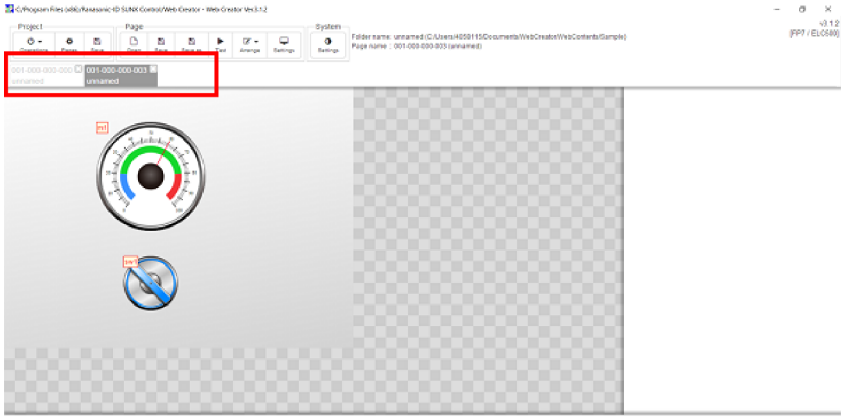
## 5.6 Screen Editing



4. Subsequently, select another screen to be edited, and click the [Open page] button.

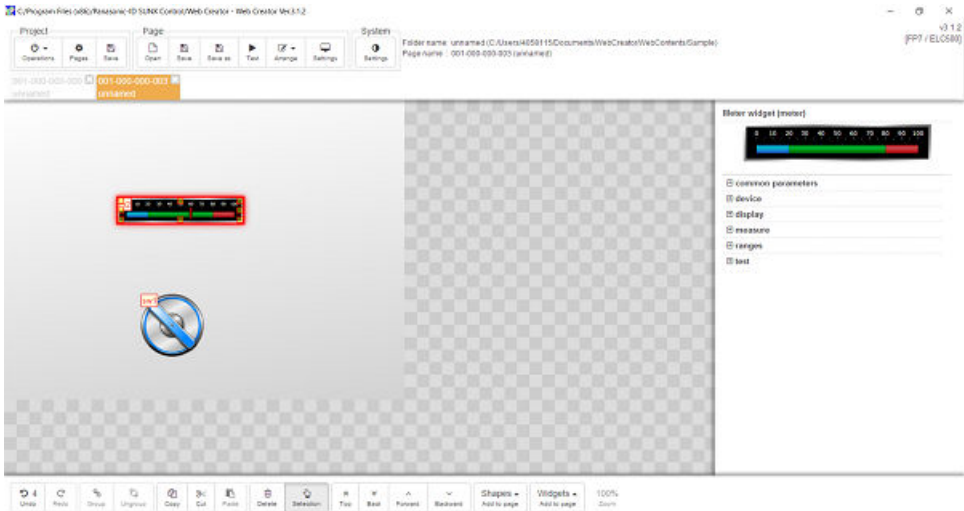


5. A tab is added by opening another screen data.



The screen can be switched by clicking the tabs.

- 6. Once the open screen data is edited (such as adding web parts), the tab color changes.



### 5.6.2 Creation of Screen

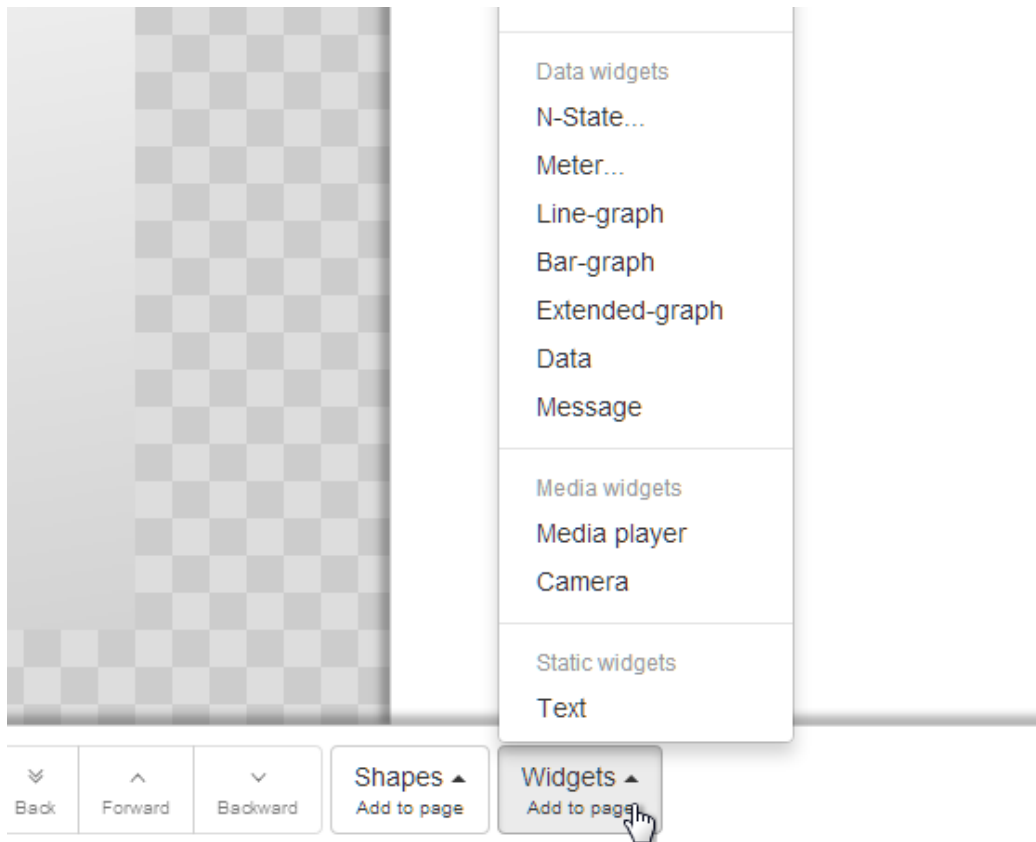
Arrange parts on the screen, and set the properties of the arranged parts. This section describes an example of procedures for arranging lamp and switch parts.

#### 1 2 Procedure

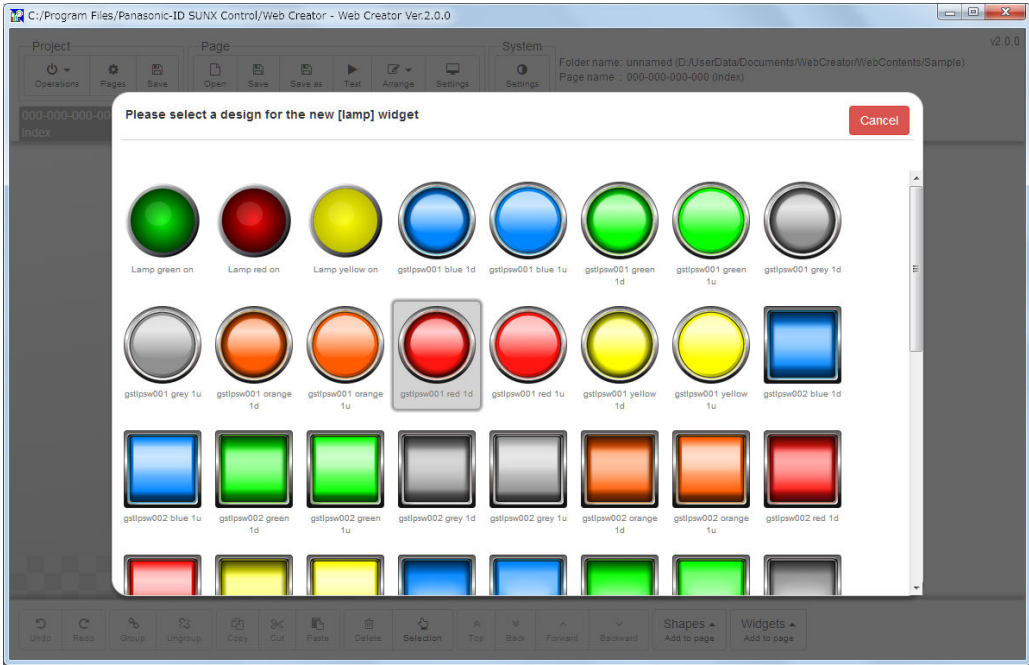
- 1. Click **Widgets Add to page** from the toolbar at the bottom of the screen, and open the parts selection menu.

## 5.6 Screen Editing

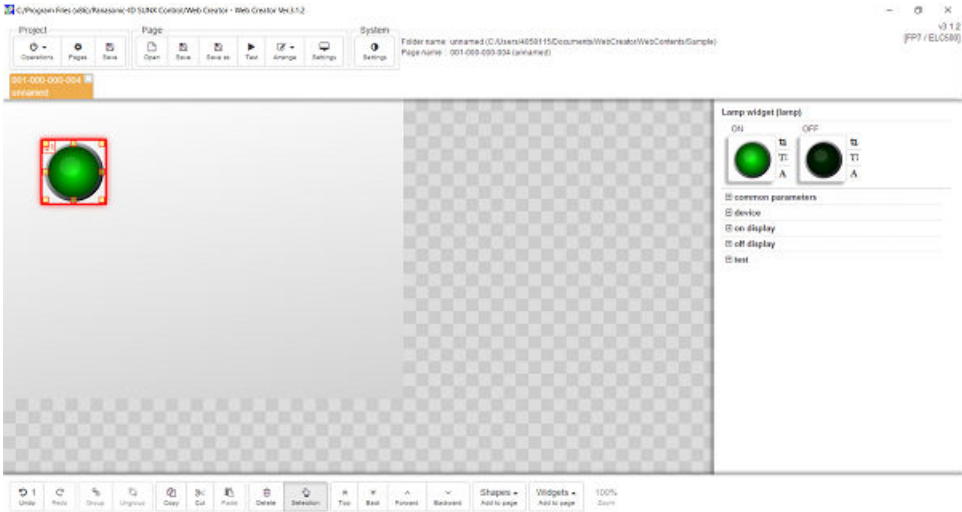
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2. Clicking "Lamp" of the parts selection menu opens the list of lamp parts.

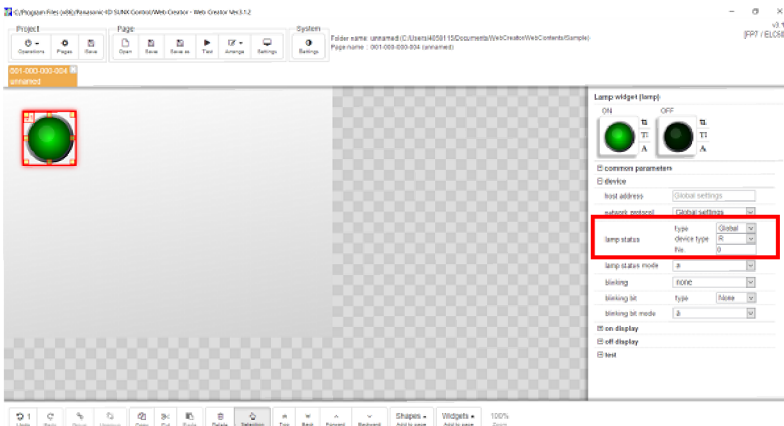


3. Clicking a lamp in the list of lamp parts returns to the edit screen. Click at an arbitrary position and arrange the part.



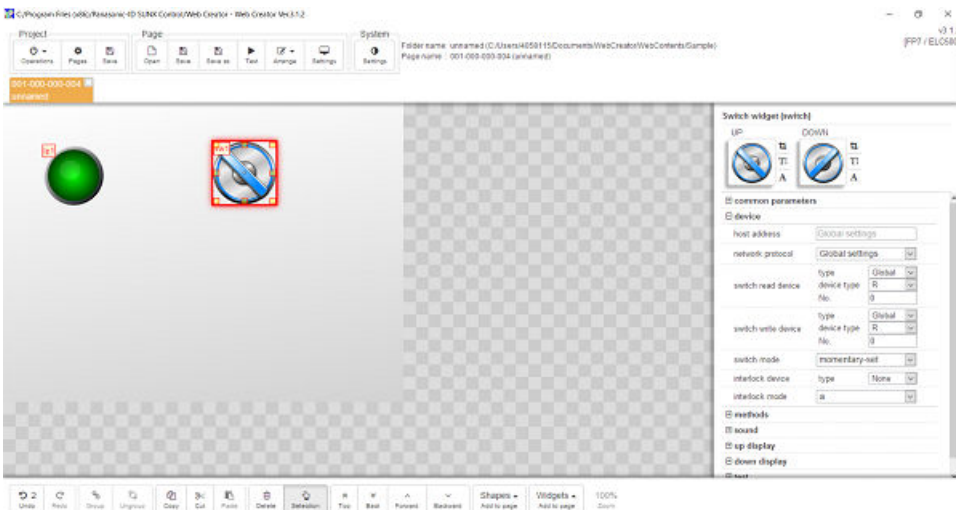
4. Once a part is arranged, the property is displayed in the right side part of the screen.

## 5.6 Screen Editing



Specify the bit address of any of the FP7, ELC500, and KW2M-X for "lamp status" of "device".

5. Arrange a switch part by the same procedure, and set the property.



## Enlarging or Reducing a Screen

The enlargement/reduction operation of the editing area can be performed when creating a screen.

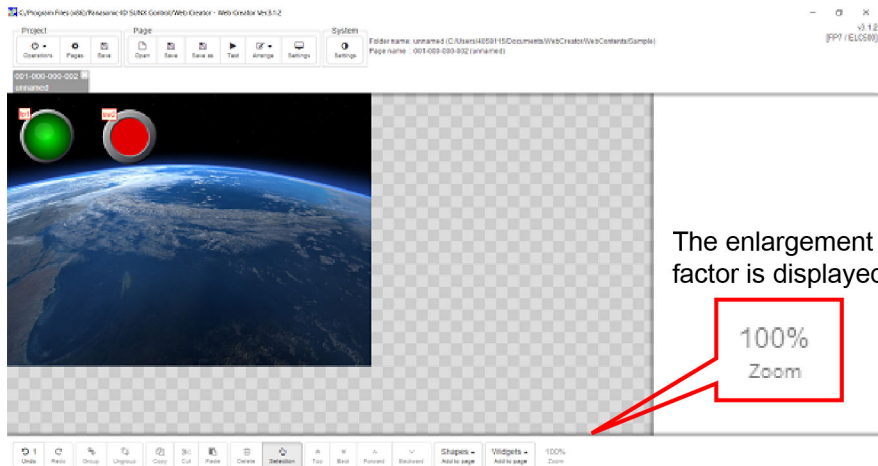
- (1) <Ctrl> key + <+> or <->
- (2) <Shift> key + mouse wheel

The magnification factor can be adjusted in the range of 10% to 800%.

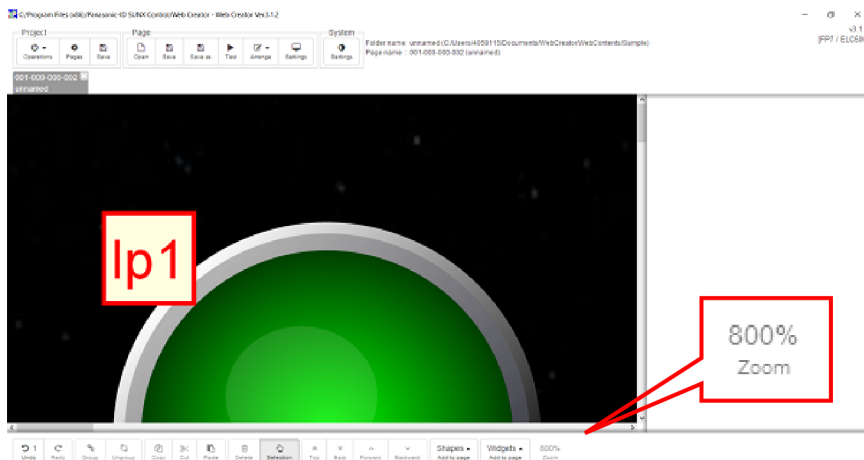
Magnification factor	Adjustment width
10% to 400%	10%
400% to 800%	25%



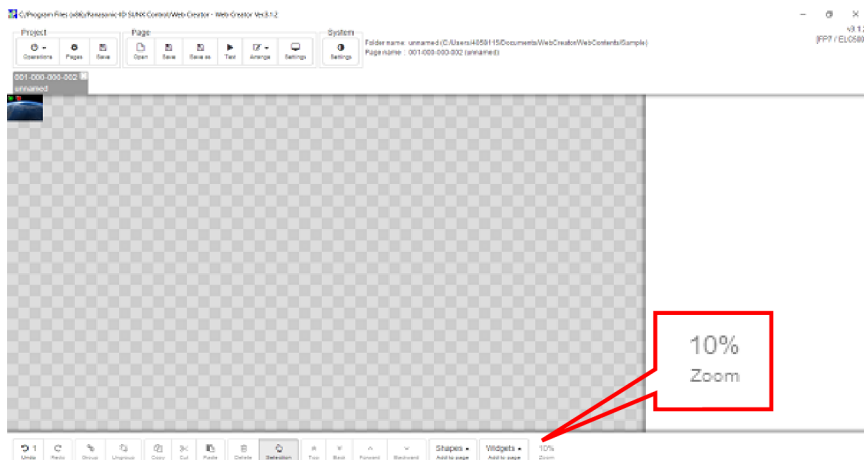
### Normal (100%) display



### Maximum enlarged (800%) display



### Maximum reduced (10%) display



## 5.6 Screen Editing

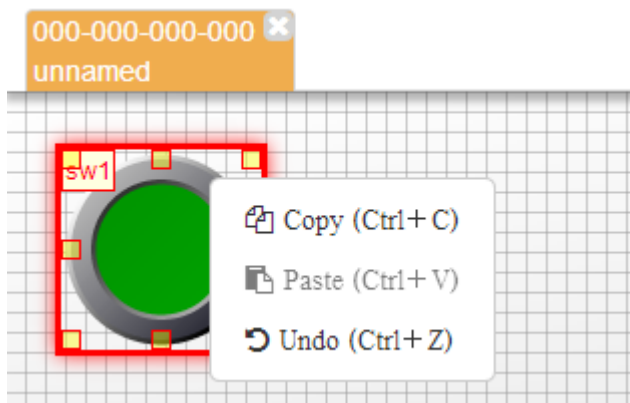
### Copying Parts or Undoing

Copy and paste operations, and undo operation can be performed by the following operations using a keyboard or mouse.

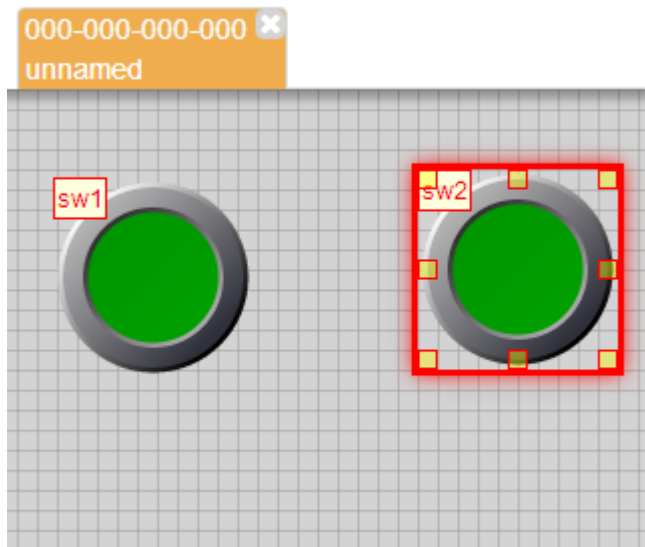
Operation	Keyboard operation	Mouse (Right-click menu)
Copy	Ctrl + C	Select "Copy".
Paste	Ctrl + V	Select "Paste".
Undo	Ctrl + Z	Select "Undo".

As an example, the copy operation is described.

Copy a part by <Ctrl + C> or "Copy" from the right-click menu.



The copied part can be pasted by Ctrl + V or "Paste" from the right-click menu.

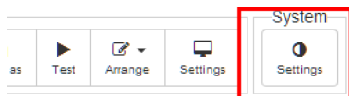


### 5.6.3 Presetting for Test

It is necessary to set the IP address of a connected Web Server before conducting a screen test.

#### 1 2 Procedure

1. Click **Setting** of the system menu.



2. Set the IP address of a Web Server to be connected when conducting the test.



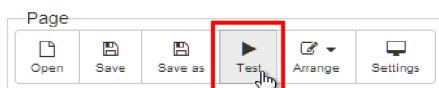
- The set IP address is used as the IP address of upload and download in common.
- When an IP address has been already set in the screen setting or group setting, its IP address is used for connection not the IP address of the host for testing.

### 5.6.4 Screen Test

The operation of a created screen can be confirmed while communicating with the FP7, ELC500, or KW2M-X before uploading the created screen to the FP7, ELC500, or KW2M-X.

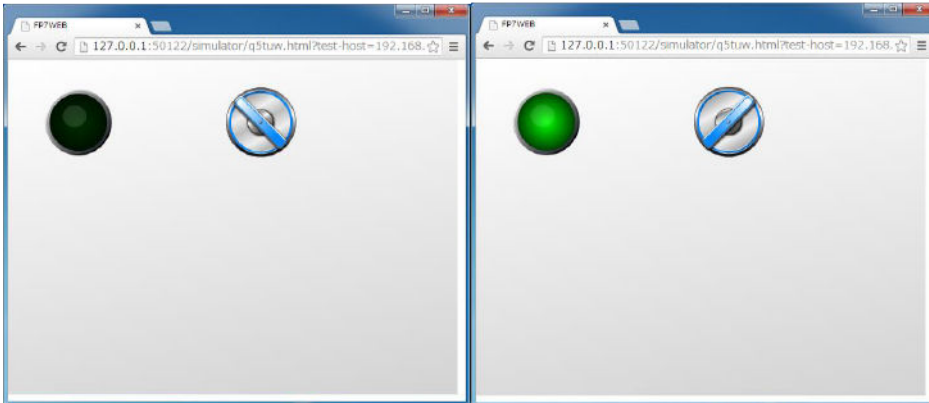
#### 1 2 Procedure

1. Click **Test** of the screen menu.

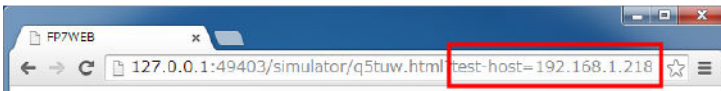


2. The test screen opens in a separate window of the browser.

## 5.6 Screen Editing



The on/off state of the specified bit is switched by clicking the switch part.



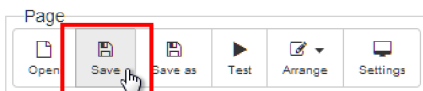
The connection destination information specified in "5.6.3 Presetting for Test" can be confirmed from the browser URL.

### 5.6.5 File Storage

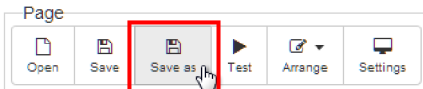
Save a created screen.

#### 1 2 Procedure

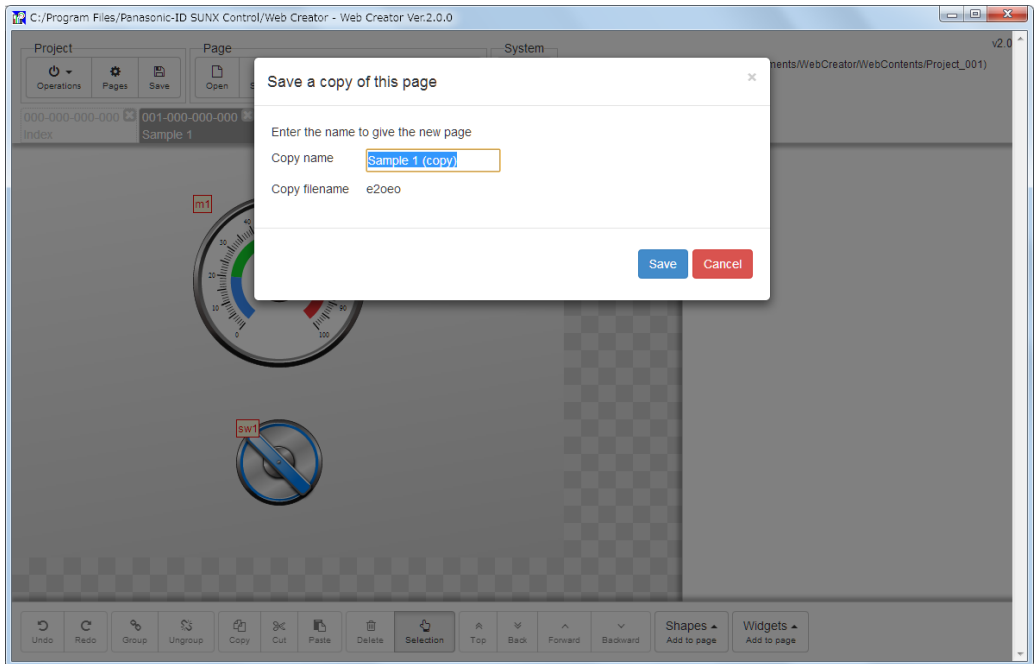
1. For overwrite save, click **Save** of the screen menu.



2. For saving with a new name, click **Save as** of the screen menu.



3. The screen for saving screen data opens.



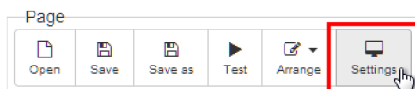
Specify a file name, and click "Save".

### 5.6.6 Screen Setting

Configure the screen setting.

#### 1 2 Procedure

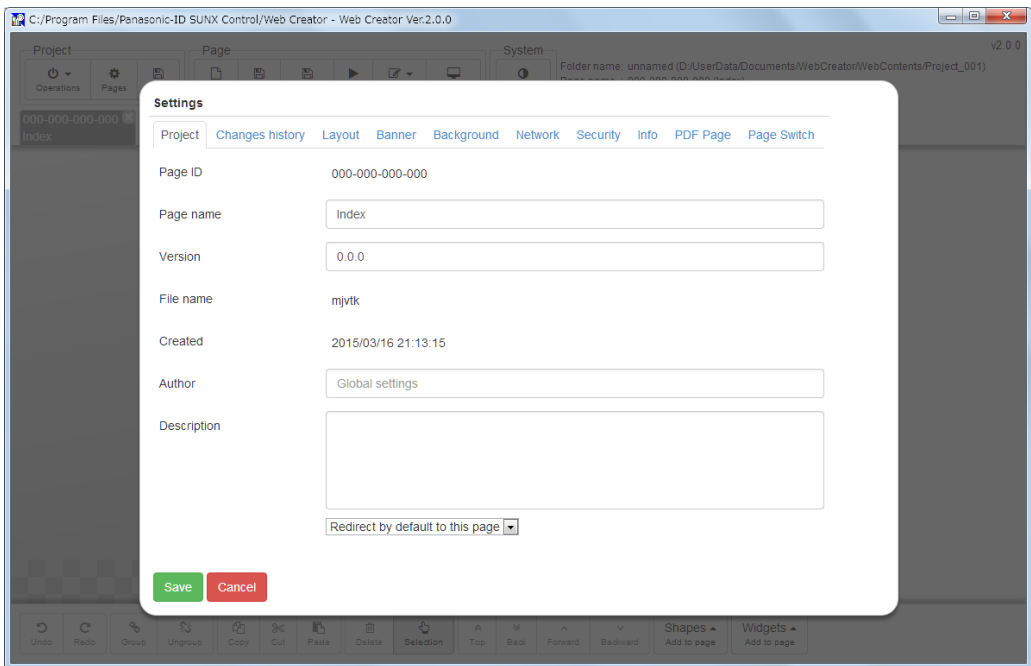
1. Click "Settings" of the screen menu.



2. The screen setting window opens.

## 5.6 Screen Editing

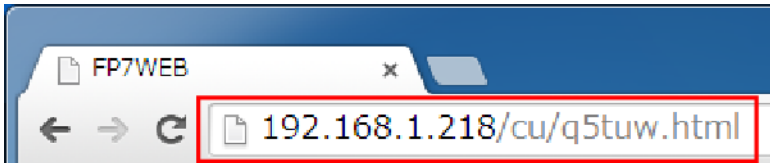
---



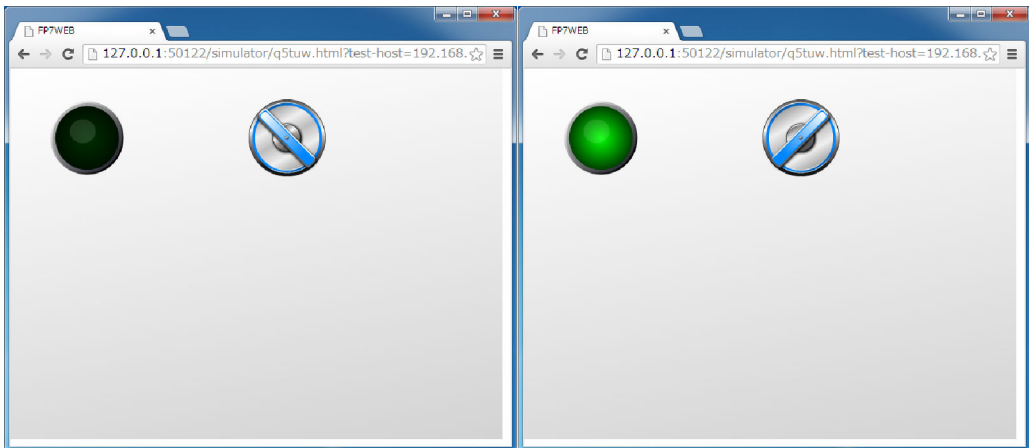
Configure the settings for screen name, size, screen background, communication setting, etc. Once the settings are reflected by clicking "Save", the screen returns to the edit screen.

## 5.7 Execution method

For executing a transferred screen, input the IP address on a browser.



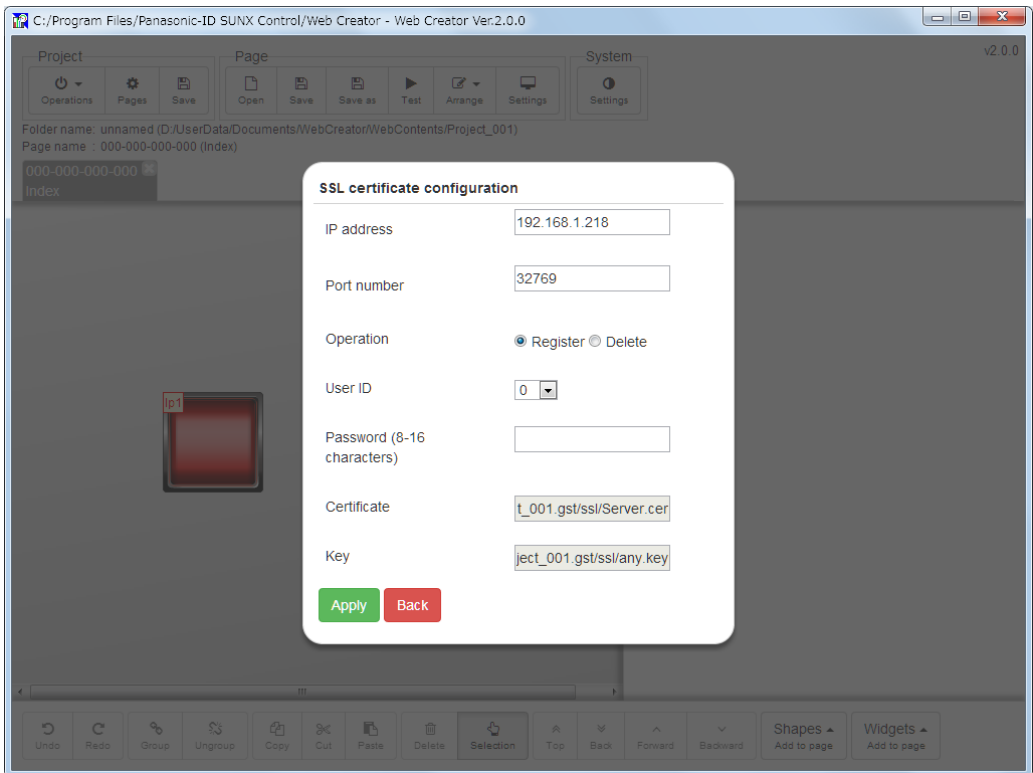
The transferred screen opens.





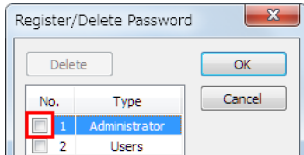


2. Select "Register" in Operation, and confirm the IP address, user ID and password of the FP7 and ELC500 of upload destination, and click [Apply].



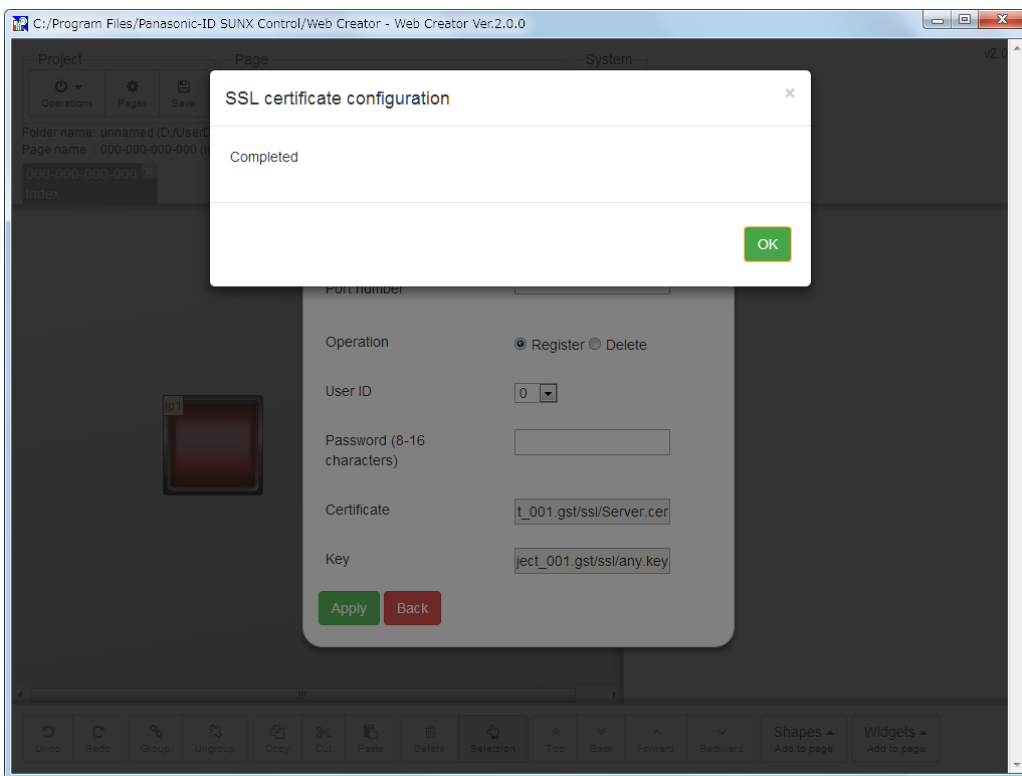
For the IP address of the upload destination, the IP address specified for the host for test, upload or download is shared.

The user ID and password varies by the security setting of FP7 and ELC500.

Security setting	User ID and Password
None	Connect as a master user. User ID: 0, Password: Not required
FPWIN GR7 security settings (FP7 only)	User ID: Number for administrator used when the password has been registered. (Figure below) Password: Administrator password used when the password has been registered. 
FPWIN Pro7 security settings	User ID: 1, Password: Password registered in Security Settings. (How to confirm) <b>Online&gt;Security Settings</b>

3. When the exit screen is displayed, click [OK].

## 5.8 Server Certificate Setting

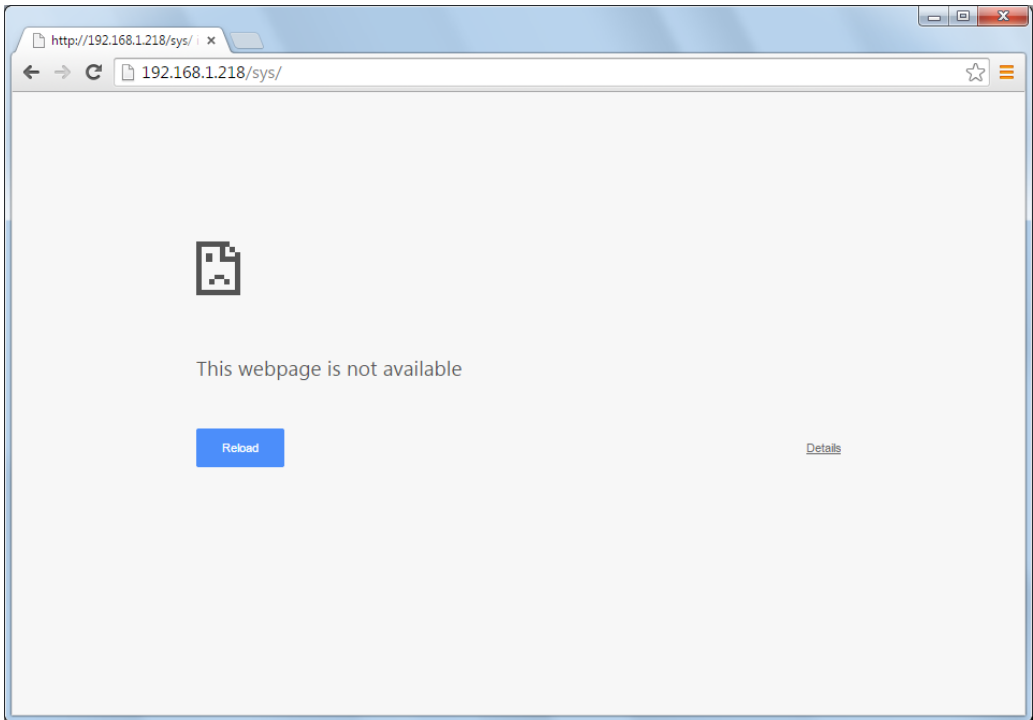


4. Restart the FP7 and ELC500.  
Restart the PLC for enabling the setting.
5. Confirm the SSL communication is valid by accessing from the browser.  
Access the following URL from the browser, and confirm that a content screen is not displayed.  
(xxx: the IP address of the FP7 and ELC500 on which the certificate is registered)

FP7	<a href="http://xxx.xxx.xxx.xxx/sys/">http://xxx.xxx.xxx.xxx/sys/</a>
ELC500	<a href="http://xxx.xxxx.xxx.xxx/cu/index.html">http://xxx.xxxx.xxx.xxx/cu/index.html</a>

\* For accessing the PLC on which the SSL setting is conducted, install a root certificate in the PC you used in advance.

For details of the installation instructions, refer to "5.8.3 Registering Root Certificate in PC".



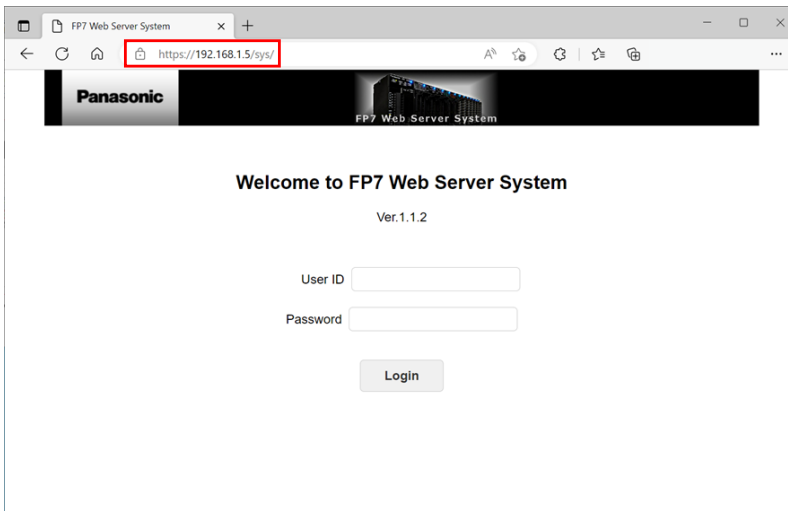
Access the following URL from the browser, and confirm that a content screen is displayed and a key mark is shown in the address bar.

(xxx: the IP address of the FP7 and ELC500 on which the certificate is registered)

FP7	<a href="https://xxx.xxx.xxx.xxx/sys/">https://xxx.xxx.xxx.xxx/sys/</a>
ELC500	<a href="https://xxx.xxx.xxx.xxx/cu/index.html">https://xxx.xxx.xxx.xxx/cu/index.html</a>

(The way of displaying the key mark varies according to the browser you use.)

### For FP7



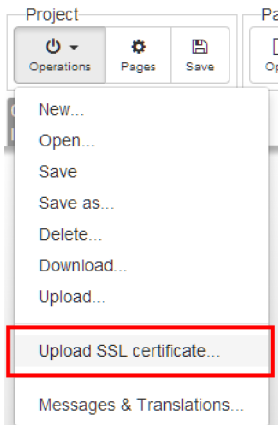
## 5.8 Server Certificate Setting

### 5.8.2 Deleting Server Certificate Information from PLC

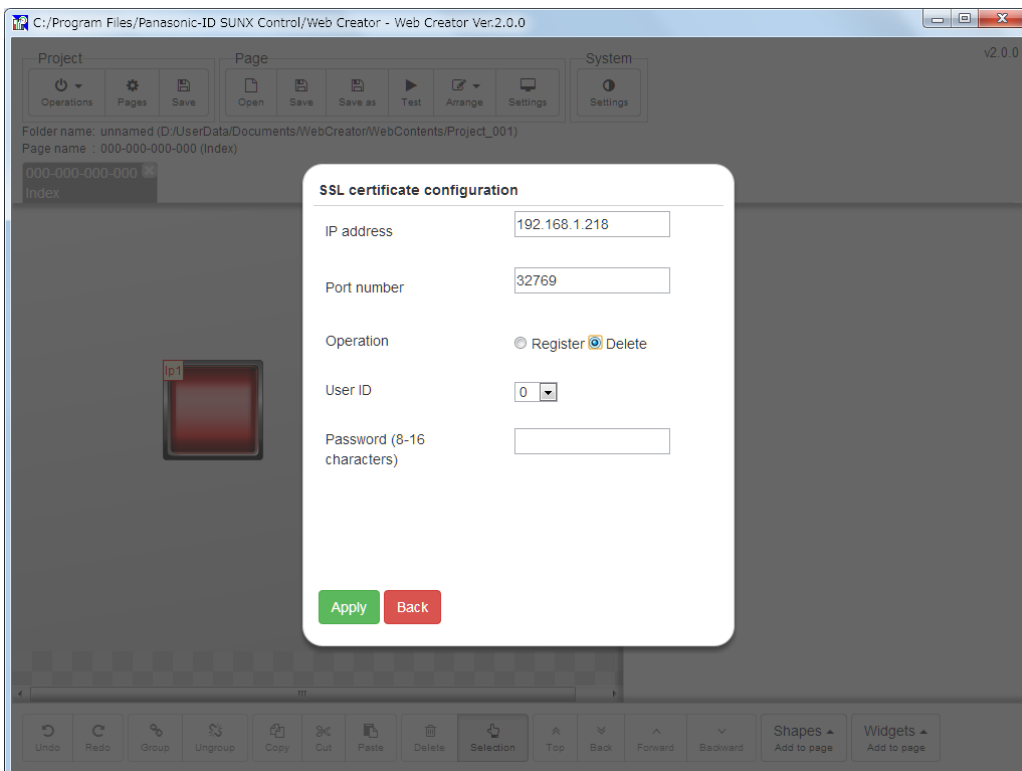
Delete the server certificate from the FP7 and ELC500.

#### 1 2 Procedure

1. Click **Operations>Upload SSL certificate...** in the project menu.

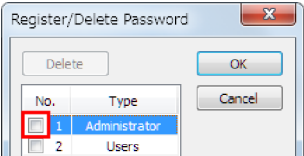


2. Select "Delete" in Operation, and confirm the IP address, user ID and password of the upload destination FP7 and ELC500, and click [Apply].

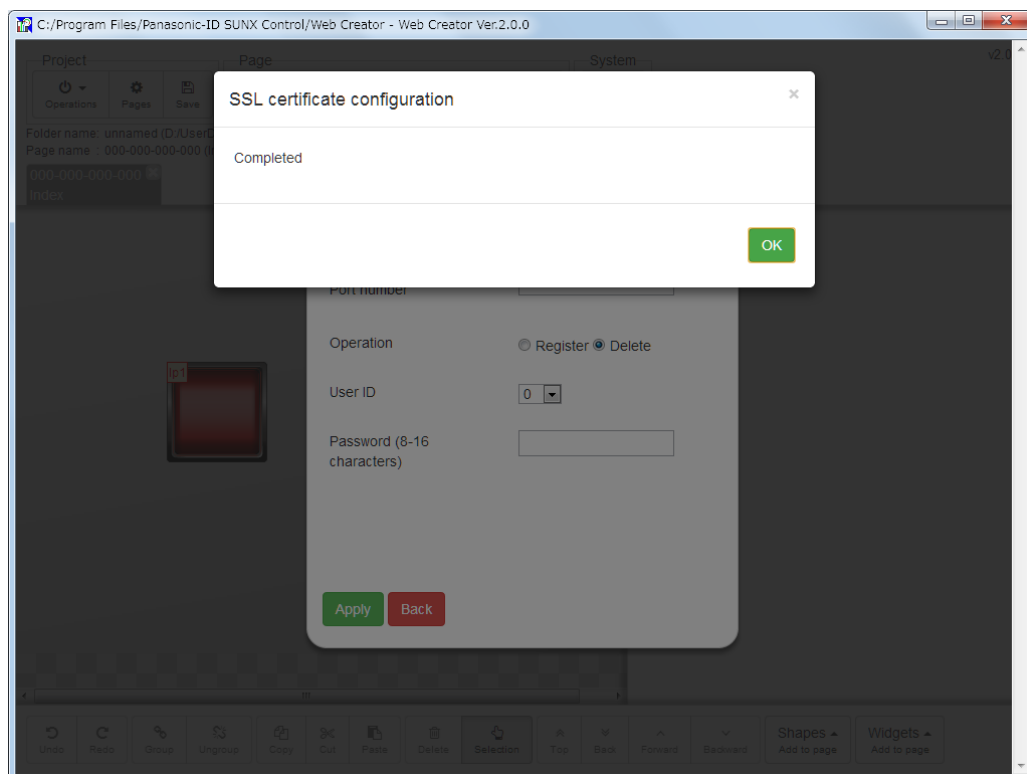


For the IP address of the upload destination, the IP address specified for the host for test, upload or download is shared.

The user ID and password varies by the security setting of FP7 and ELC500.

Security setting	User ID and Password
None	Connect as a master user. User ID: 0, Password: Not required
FPWIN GR7 security settings (FP7 only)	User ID: Number for administrator used when the password has been registered. (Figure below) Password: Administrator password used when the password has been registered.  (How to confirm) <b>Tools&gt;PLC Security Settings&gt;Register/Delete Password</b>
FPWIN Pro7 security settings	User ID: 1, Password: Password registered in Security Settings. (How to confirm) <b>Online&gt;Security Settings</b>

- When the exit screen is displayed, click [OK].



- Restart the FP7 and ELC500.  
Restart the PLC for enabling the setting.

## 5.8 Server Certificate Setting

5. Confirm the SSL communication is invalid by accessing from the browser.

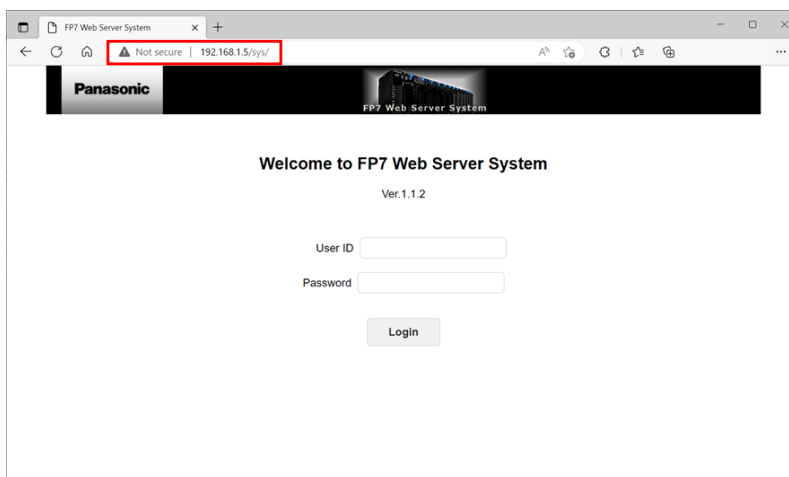
Access the following URL from the browser, and confirm that a content screen is displayed and a key mark is not shown in the address bar.

(xxx: the IP address of the FP7 and ELC500 from which the certificate is deleted)

FP7	<a href="http://xxx.xxx.xxx.xxx/sys/">http://xxx.xxx.xxx.xxx/sys/</a>
ELC500	<a href="http://xxx.xxxx.xxx.xxx/cu/index.html">http://xxx.xxxx.xxx.xxx/cu/index.html</a>

(The way of displaying the key mark varies according to the browser you use.)

### For FP7



### 5.8.3 Registering Root Certificate in PC

For accessing contents in a PLC in which a server certificate has been registered, a root certificate should be registered in the PC in advance.

When a root certificate is not registered, a content screen is not displayed even when accessing the PLC.

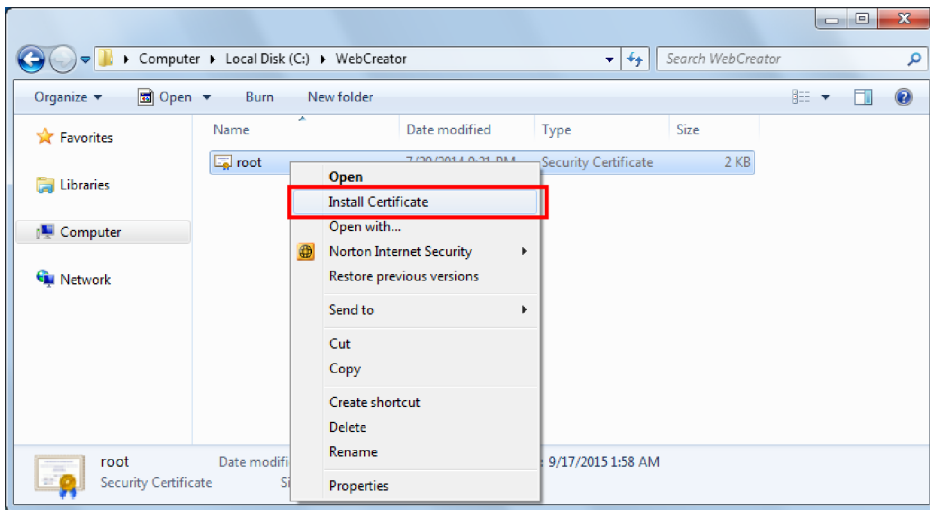
#### Items that should be prepared

- Root certificate
  - \* Prepare a root certificate that is issued by the publisher of the server certificate registered in the connected PLC.
  - \* If server certificates issued by different publishers have been registered in multiple PLCs, prepare root certificates corresponding to each publisher.

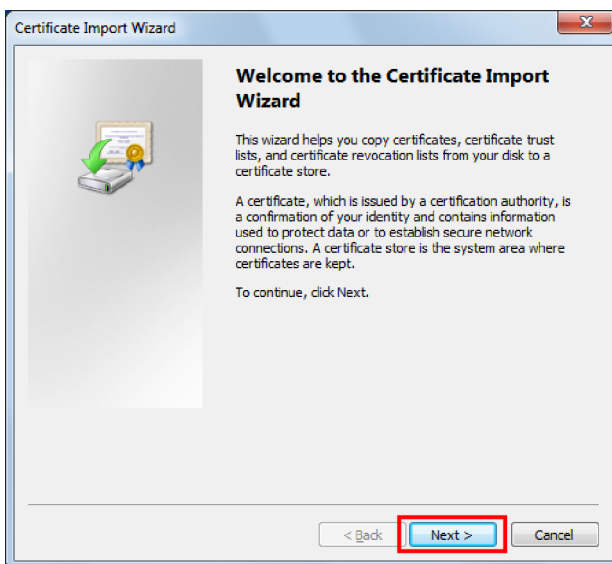
#### Installation of root certificate

### 1.2 Procedure

1. Select "Install Certificate" from the right-click menu of a root certificate.

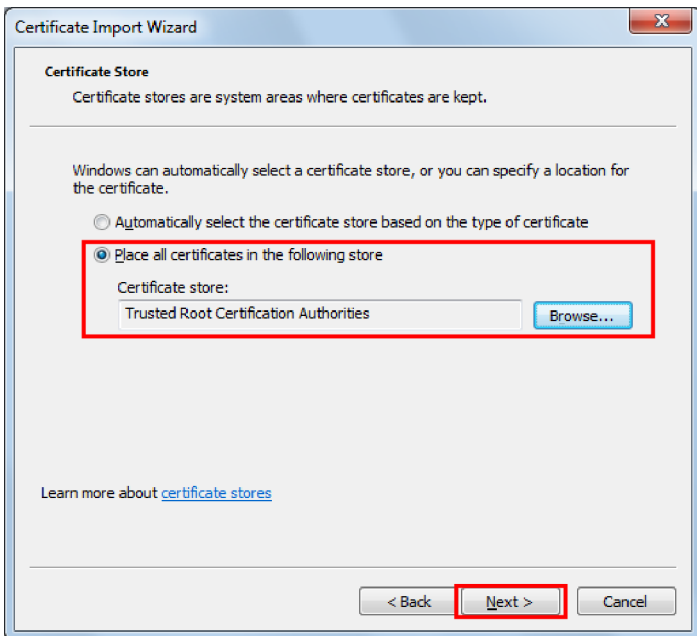


2. Select "Next" in the wizard.



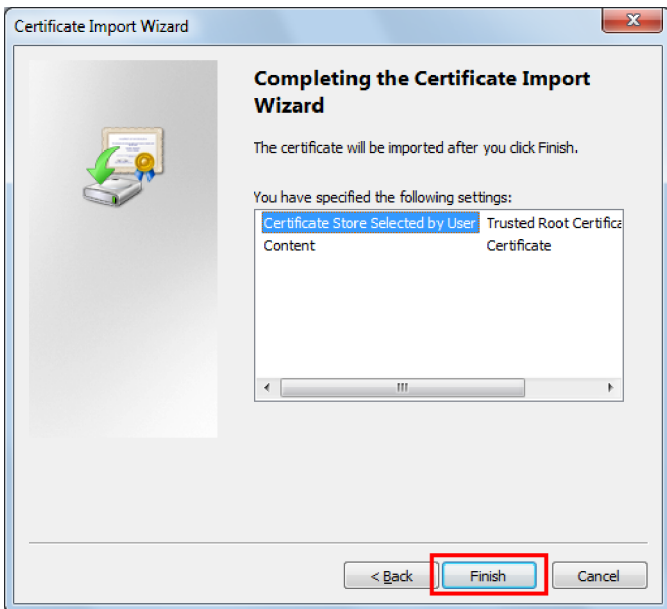
3. Select "Trusted Root Certification Authorities" from "Place all certificates in the following store".

## 5.8 Server Certificate Setting



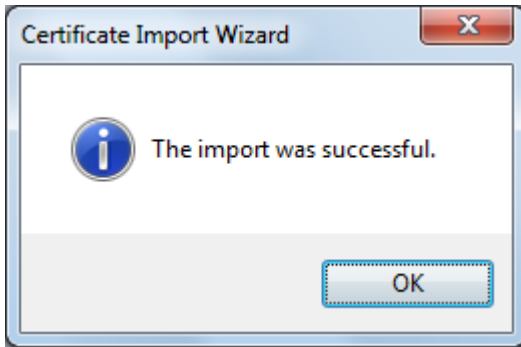
Select "Next" after selecting "Trusted Root Certification Authorities".

4. Confirm that "Trusted Root Certification Authorities" is selected, and select "Finish".



5. The installation of the certificate is complete.





## 5.9 Security Setting

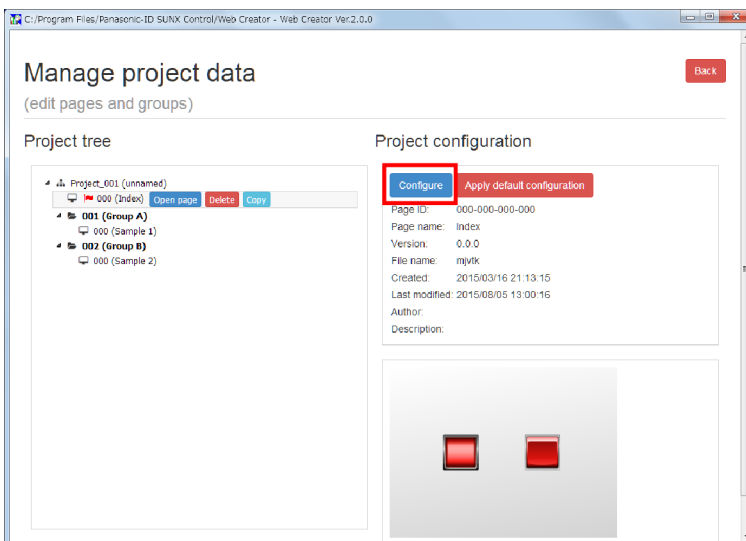
### 5.9 Security Setting

If the security setting is made, a password should be entered for displaying the screen. Sixteen stages of security levels can be set, and web parts can be displayed according to the security level for login.

#### 5.9.1 Password setting for each security level

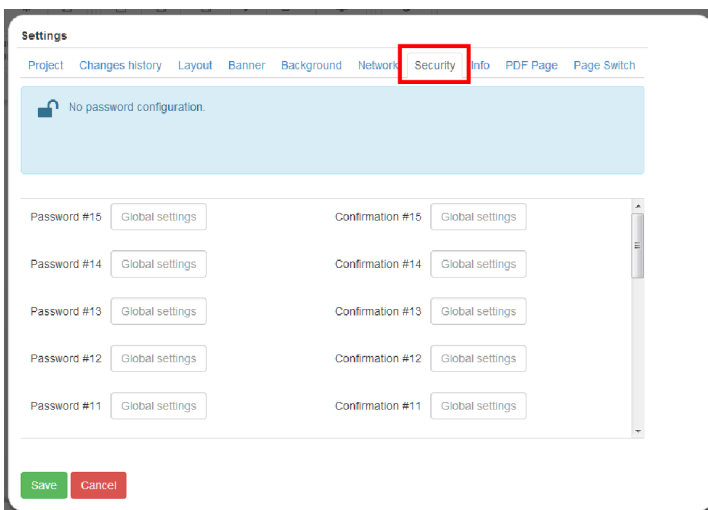
### 1 2 Procedure

1. Open the advanced setting screen.

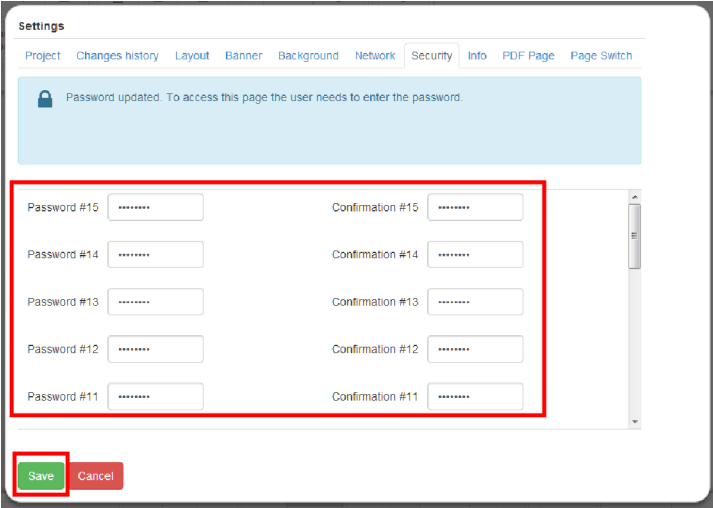


A project and groups can be set for each screen.

2. Select the "Security" tab.



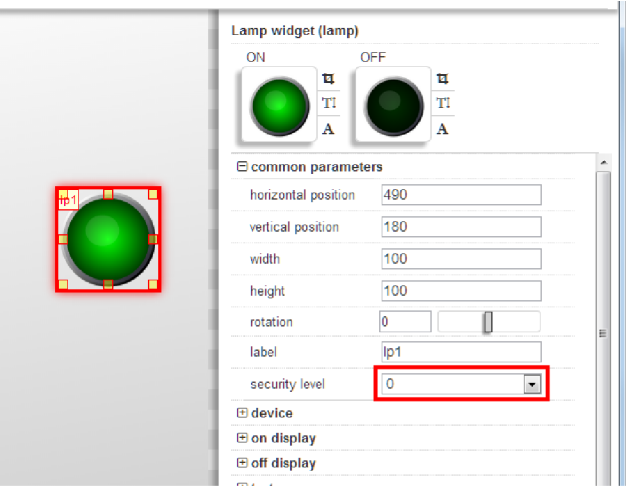
3. Set a password for each security level.



A password should be set for each security level.  
Sixteen stages of security levels, 0 (low) to 15 (high) can be set.

\* For deleting a password that has been set, leave the password input field blank for the setting.

**5.9.2 Method of setting the security level of web parts**



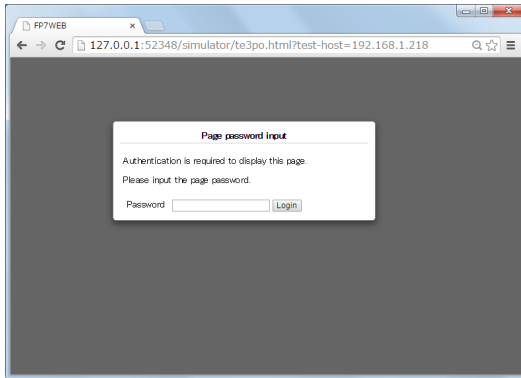
Security levels can be set for each web part.  
If you log in with a security level lower than the corresponding security level, the part is not displayed.

**Example of operation with the security setting**

## 5.9 Security Setting

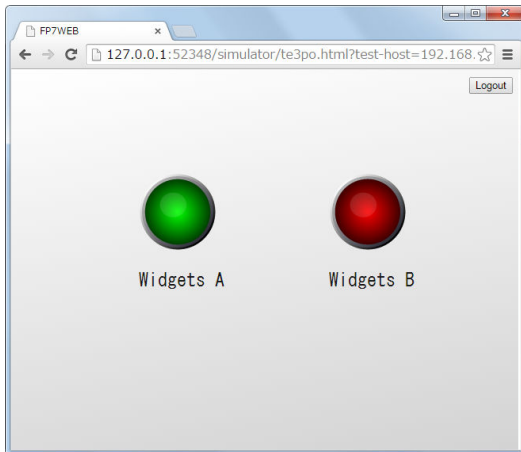
---

### [Login screen]

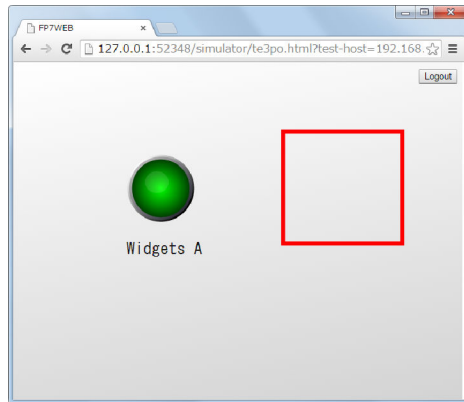


When displaying a screen for which a password has been set, the following screen is displayed. Enter the registered password. If the login attempt failed, the content screen is not displayed.

### [Login result]



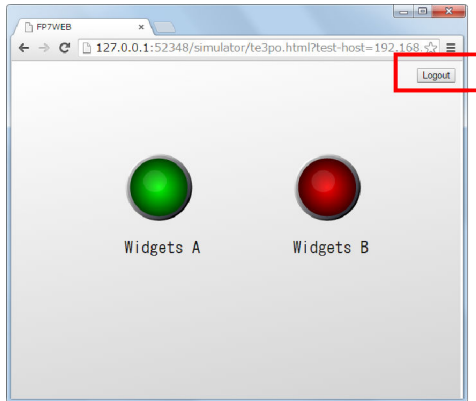
Login with a password higher than the security level




Login with a password lower than the security level

When the security has been set for multiple screens, and if the security settings for screens A and B are the same, the other screens can be displayed without login as the logged-in password information is transferred.

When the password settings for screens A and B are different, the login screen is displayed for opening other screens.

**[Logout]**

Once logged out, the screen returns to the initial screen.

\* The initial screen is indicated with  mark on the project tree.



- When the initial screen has not been set, nothing is displayed on the screen when logged out.
- The initial screen must be set.

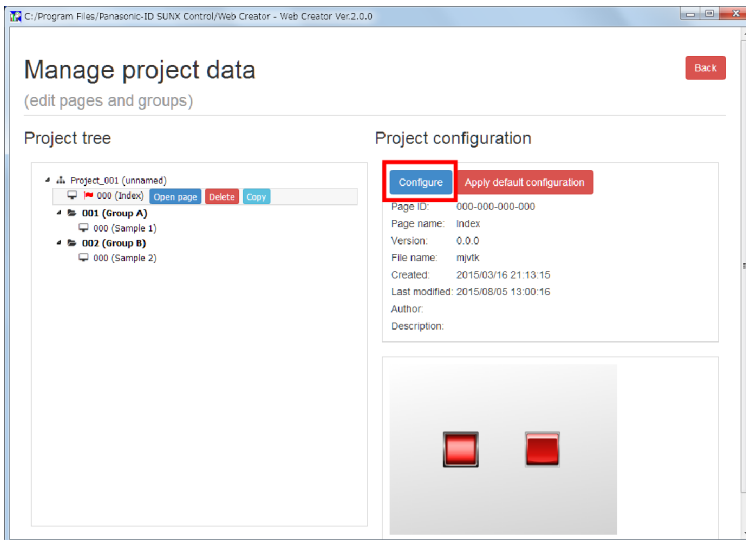
## 5.10 Banner Setting

### 5.10 Banner Setting

A banner can be displayed in each web screen.

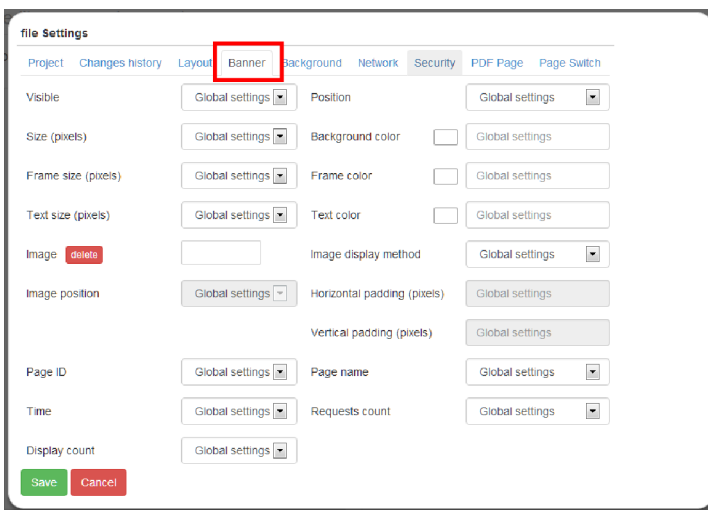
#### 1 2 Procedure

1. Open the advanced setting screen.



A project and groups can be set for each screen.

2. Select the "Banner" tab.



3. Set the items for a banner.

The setting items are as follows.

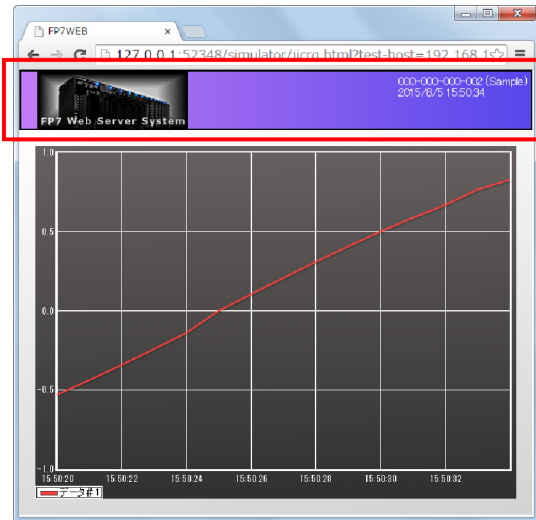
Setting item	Description
Visible	Display/hide a banner.
Position	Display position of a banner
Size (pixels)	Size of a banner. When the display position is "Up" and "Down", it is the vertical width. When it is "Left" and "Right", it is the horizontal width.
Background color	Background color of a banner
Frame size (pixels)	Line thickness of a banner
Frame color	Frame color of a banner
Text size (pixels)	Character size displayed in a banner.
Text color	Character color displayed in a banner.
Image	Image displayed in a banner
Image display method	<p>The display method of an image is as follows.</p> <p>Hidden : No image is displayed.</p> <p>FILL : An image is magnified so as to match with the banner area.</p> <p>CONTAIN : An image is magnified so as to be contained in the banner area.</p> <p>COVER : An image is magnified so as to cover the banner area.</p> <p>(Note 1) When magnifying an image using "FILL", the aspect ratio of the magnified image does not match that of the original image.</p> <p>(Note 2) When magnifying an image using "CONTAIN" or "COVER", the image is magnified so as to have the same aspect ratio as that of the original image.</p>
Image position	Display position of an image
Horizontal padding (pixels)	An image is displayed by shifting by a specified number of pixels.
Vertical padding (pixels)	An image is displayed by shifting by a specified number of pixels.

## 5.10 Banner Setting

Setting item	Description
Page ID	A screen number is displayed in a banner.
Page name	A screen name is displayed in a banner. The contents specified for the screen name of the advanced setting "Project" of each screen is displayed.
Time	Time information is displayed in a banner. *The time information of OS is displayed.
Requests count	The cumulative number of communications and the number of communications per second are displayed.
Display count	The cumulative number of display times and the number of display times per second are displayed.

(Note 1) \* For displaying an arbitrary image, it should be saved in "WebCreator\WebCommons\img".  
For details, refer to "4.2 Folder Structure of Software Control Web Creator".

Reference) When actually displaying the setting of the procedure 3.



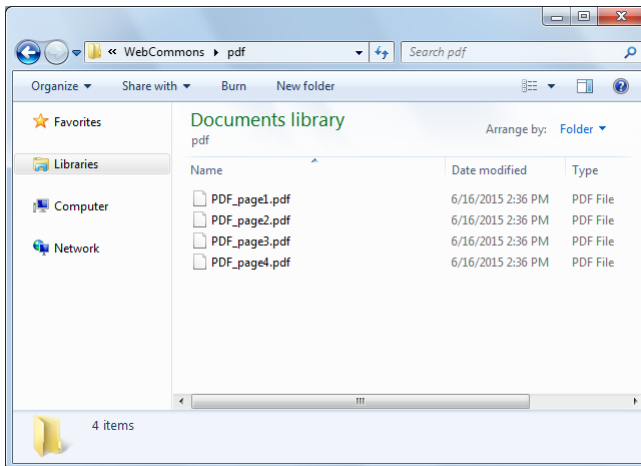


## 5.11 PDF Screen Setting

PDF data can be displayed when displaying a screen by specifying a PDF file as a screen.

### 1 2 Procedure

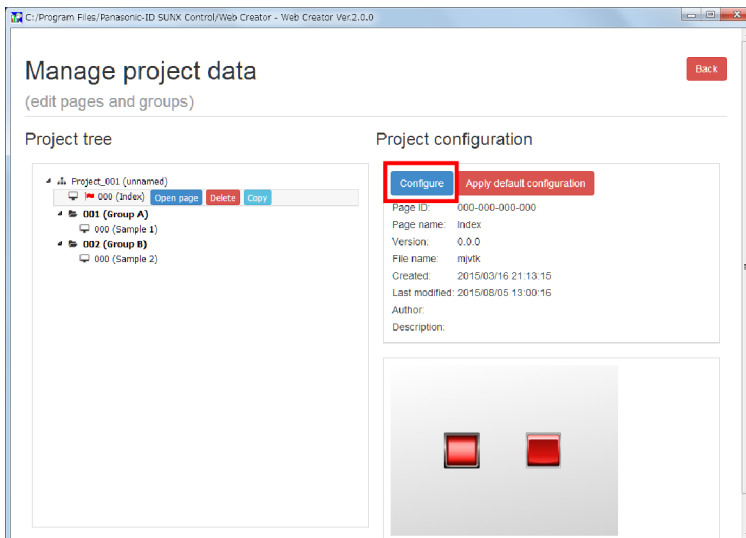
1. Store a PDF file you want to display in a predetermined folder.



Store PDF files in "WebCreator\WebCommons\pdf".

For details, refer to "4.2 Folder Structure of Software Control Web Creator".

2. Open the advanced setting screen of the page on which the PDF is displayed.



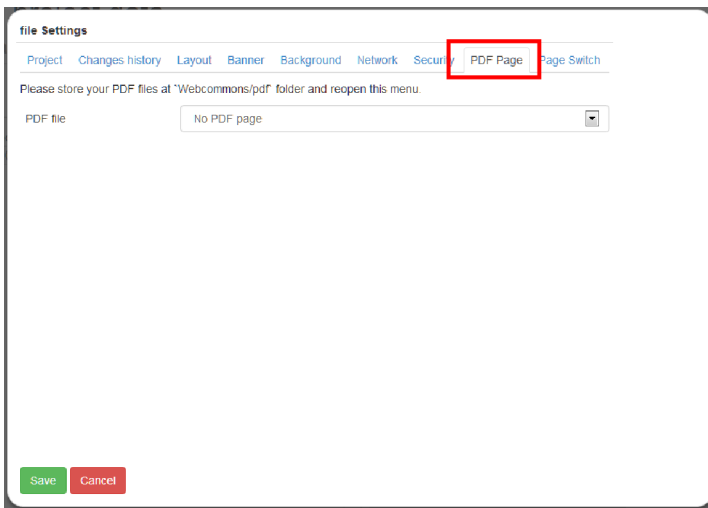
This setting is made for each screen separately.

This setting cannot be made for projects and groups.

Do not arrange web parts in the screen that this setting is made.

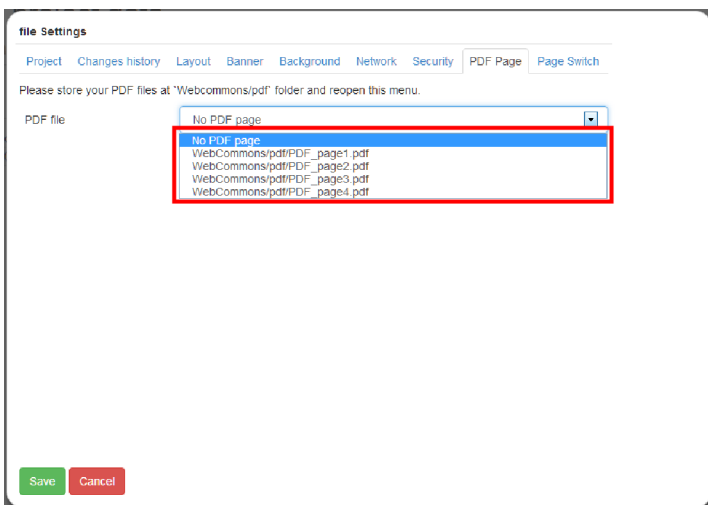
3. Select the "PDF Page" tab.

## 5.11 PDF Screen Setting

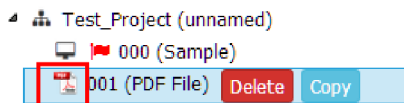


(Note 1) For canceling the PDF page, select "No PDF page", and save. After the setting is complete, the icon in the screen changes to the normal icon.

### 4. Select a PDF file you want to display, and save the setting.



(Note 1) Once the PDF screen setting is complete, the icon changes to that of PDF file.



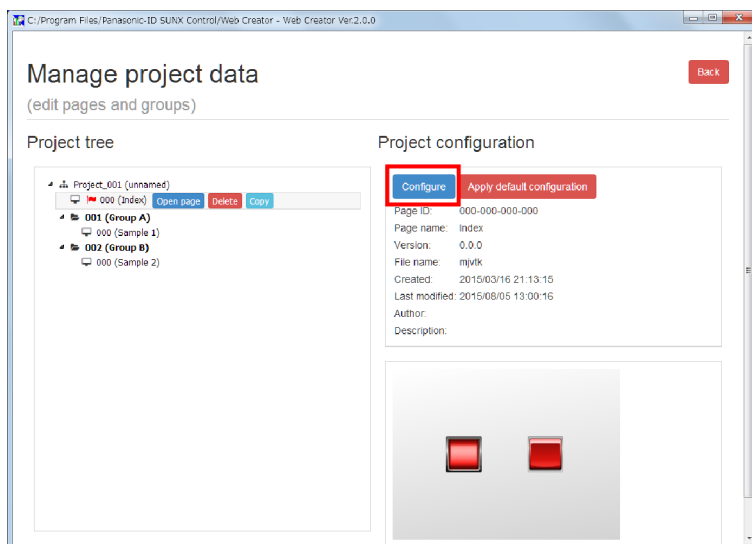
When a page set in the PDF screen is displayed, the operation differs according to the browser used.

## 5.12 Page Switch Setting

Pages displayed on a browser can be controlled from the PLC by setting triggers. The page switch function is not available for KW2M-X.

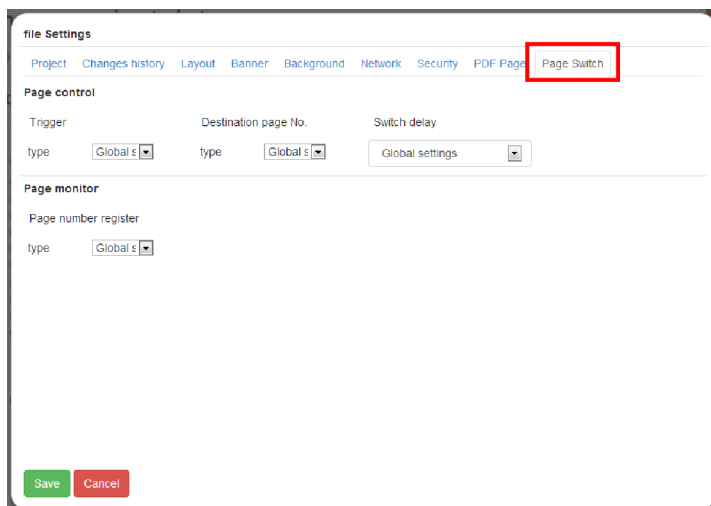
### 1 2 Procedure

1. Display the advanced setting screen.



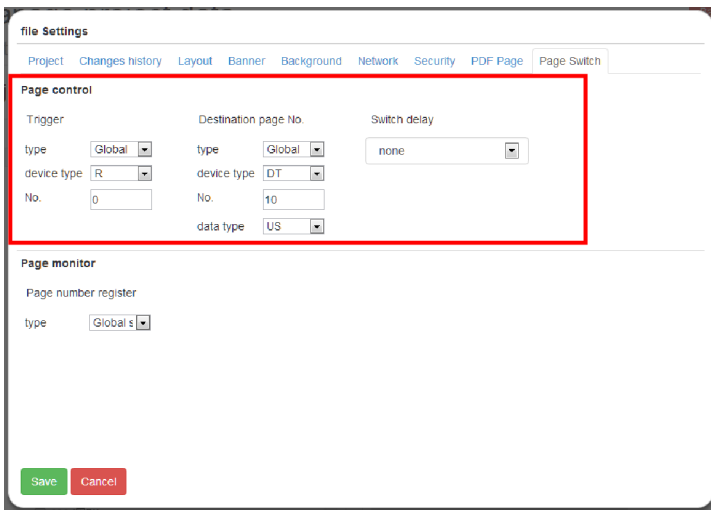
This setting can be made for each project, group, and screen.

2. Select the "Page Switch" tab.



3. Make the page switch setting.

## 5.12 Page Switch Setting



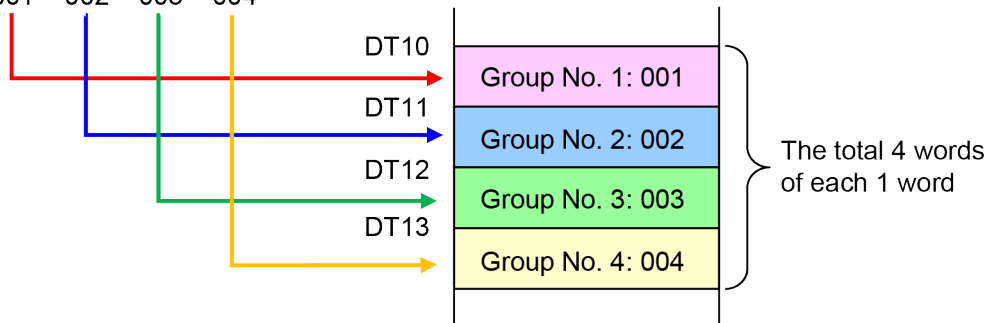
Setting item	Description
Trigger	The screen is switched when the specified trigger turns ON.
Destination page No.	Specify the starting device where a destination screen number is stored.
Switch delay	Time until the screen is switched after the trigger turns ON.

### Data format of screen number

For specifying a screen number, store it in the device as follows.

[Destination screen number]

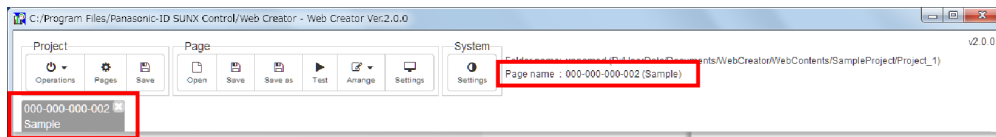
001 – 002 – 003 – 004



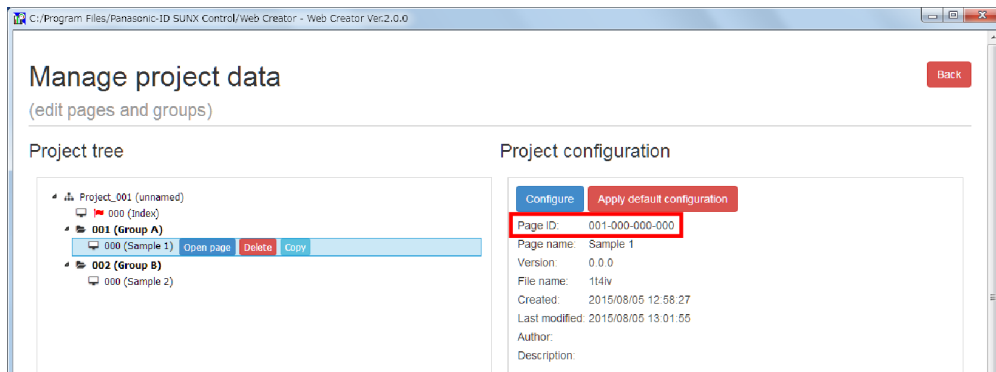
### Method of confirming screen numbers

Screen numbers can be confirmed by the following procedure.

- Confirming from the edit screen



- Confirming from the management screen



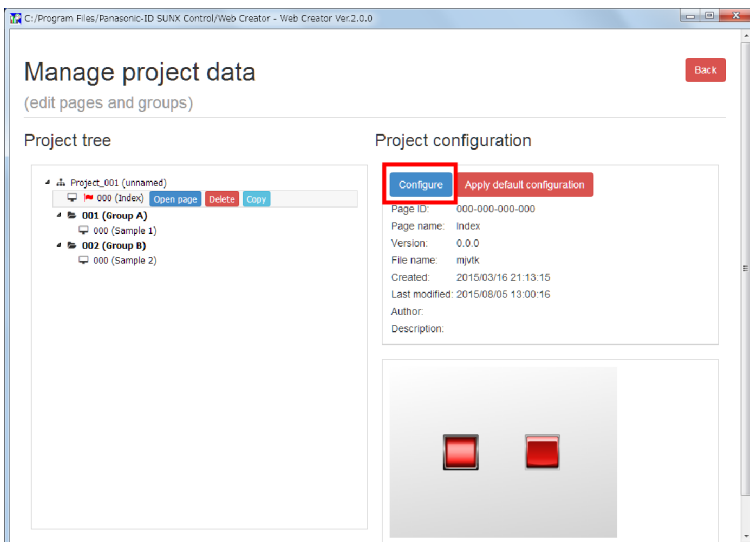
## 5.13 Screen Number Notification Setting

### 5.13 Screen Number Notification Setting

This setting enables to notify the screen number currently displayed to the PLC.  
The screen number notification function is not available for KW2M-X.

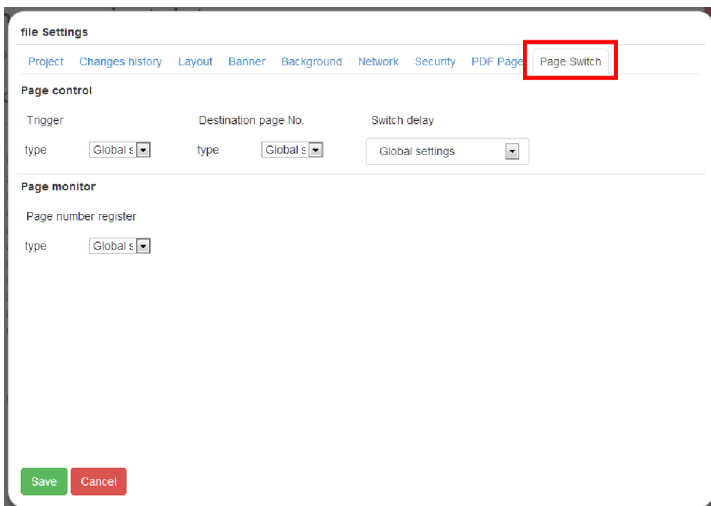
#### 1 2 Procedure

1. Display the advanced setting screen.



This setting can be made for each project, group, and screen.

2. Select the "Page Switch" tab.



3. Make the screen notification setting.

**file Settings**

Project Changes history Layout Banner Background Network Security PDF Page Page Switch

**Page control**

Trigger Destination page No. Switch delay

type Global s type Global s Global settings

**Page monitor**

Page number register

type Global

device type DT

No 100

data type US

Save Cancel

For the output format of screen numbers, refer to "Data format of screen number" in ["5.12 Page Switch Setting"](#).

The screen number is notified after the display of the screen changes.

## 5.14 Fine Adjustment Function of Part Arrangement

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### 5.14 Fine Adjustment Function of Part Arrangement

The arrangement of parts can be finely adjusted using the cursor keys of a keyboard (<↑>/<↓>/<←>/<→>) besides dragging a mouse.

These keys can be operated together with the Shift key.

Cursor keys:	:	Moves one pixel.
<Shift> + Cursor keys	:	Moves ten pixels.

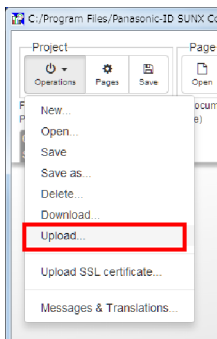


## 5.15 Function for Confirming Content Size

The content size of a currently edited project can be confirmed.

### 1 2 Procedure

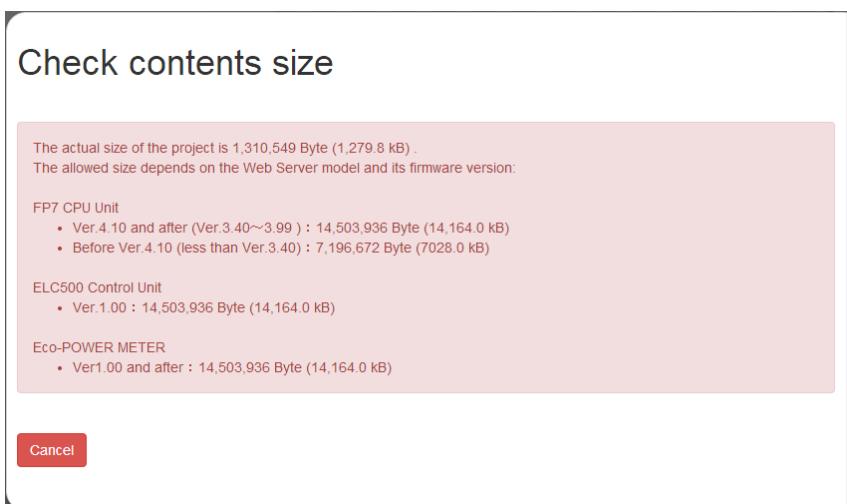
1. Select "Upload".



2. Press the [Check contents size] button.



3. Confirm the content capacity.



### 5.16 Multi-language Switching Function of Software Control Web Creator

The display language of the Software Control Web Creator is determined by the language of OS at the time of startup.

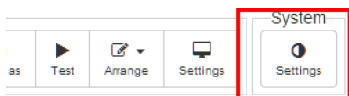
The display language is switched according to the language of OS as follows.

Japanese OS : Japanese display  
Other languages : English display

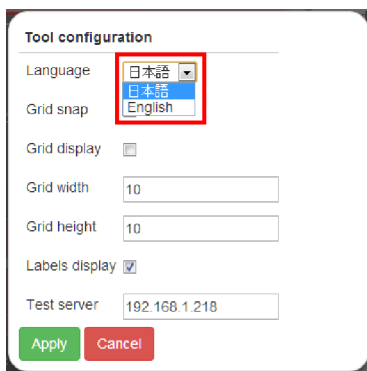
Once the setting is changed, the selected language is also used from the next startup.

#### 1 2 Procedure

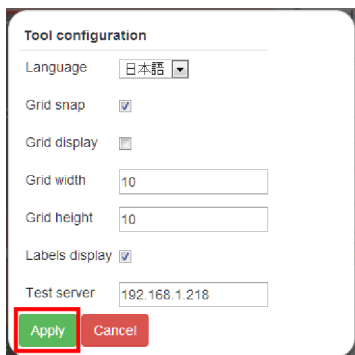
1. Display the "Settings" screen.



2. Select a language you want to display.



3. Select "Apply".



(Note 1) Once the setting is changed, the screen changes to the start screen. When there is an unsaved edit screen, it is confirmed whether it is saved or not.

### 5.17 Monitor function

The monitor function is activated even when the content screen is not inactive.

Inactive

Inactive means the states that the browser is minimized or the screen is not focused.



- In the Software Control Web Creator of a version earlier than Ver.2.0.0, the monitor function stops when the content screen is inactive. Once it becomes active again, the monitor function restarts.

## 5.18 Automatic Enlargement of Attached Images

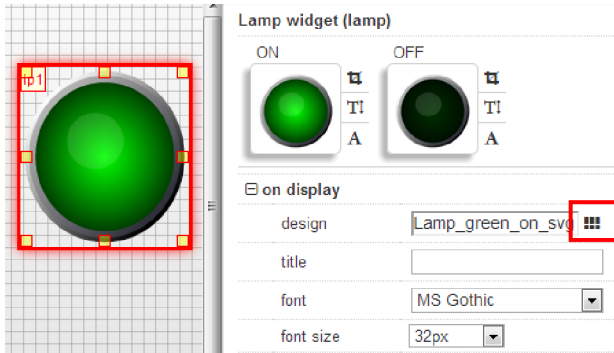
### 5.18 Automatic Enlargement of Attached Images

For some parts such as lamp parts and switch parts, original images prepared by a user can also be displayed besides images preliminarily prepared.

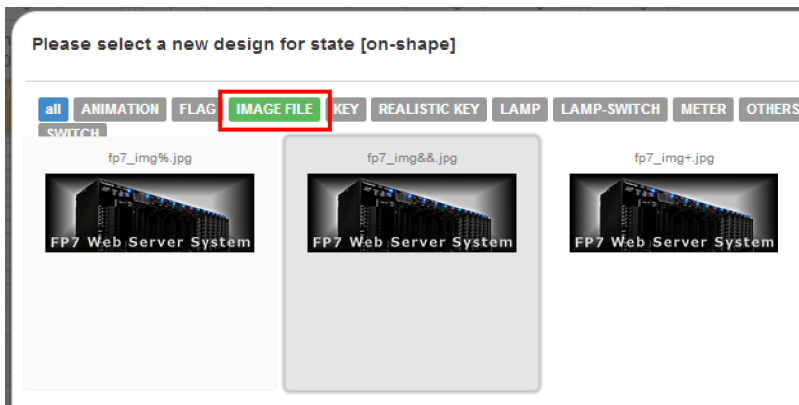
For using original images, store the images you want to use in the "WebCreator\WebCommons\img" folder in advance.

For details, refer to "4.2 Folder Structure of Software Control Web Creator".

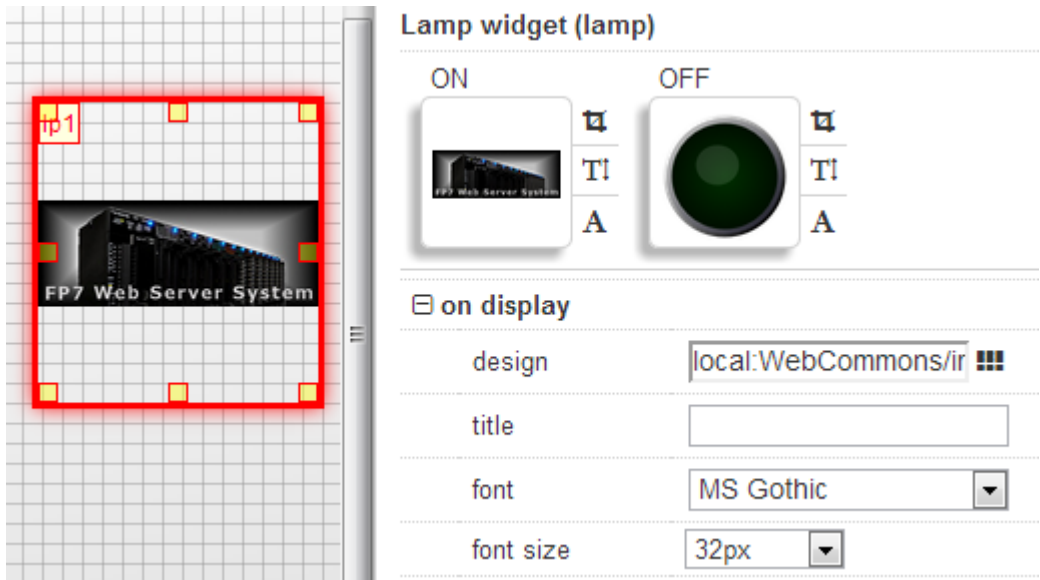
Select the setting "design" to open the design selection screen.



For selecting an original image, select an image file and then select an image to be replaced.



The design of the part will be replaced with the original image.



**Lamp widget (lamp)**

ON OFF

FP7 Web Server System

**on display**

design local:WebCommons/ir

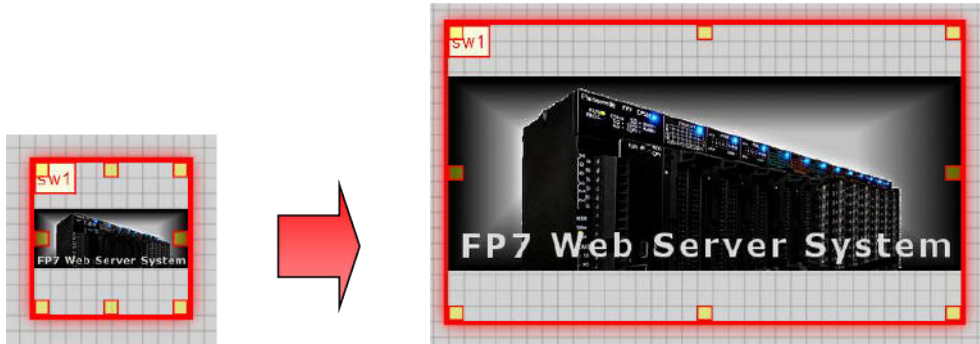
title

font MS Gothic

font size 32px

**Images displayed on parts are enlarged or reduced according to each part size.**

The aspect ratio of each image will be maintained even when the longitudinal and lateral sizes of the part is changed.



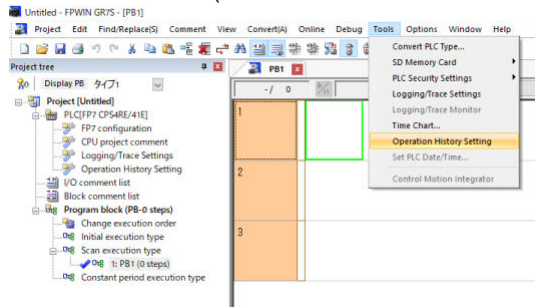
### 5.19 Operation History

The operation history function stores the monitoring history of the FP7 internal device in the non-volatile memory of FP7, and displays it in the alarm history and Gantt chart part created by the Software Control Web Creator.

#### Info.

- For alarm history, refer to "6.20 Alarm History".
- For Gantt chart, refer to "6.21 Gantt Chart".

Use tool software (FPWIN GR7 or FPWIN Pro7) to make the configuration settings for FP7.



#### ■ Target models

The operation history function is available only for the following FP7 CPU units with the Ethernet function.

AFP7CPS4RE AFP7CPS4RES  
AFP7CPS3RE AFP7CPS3RES

#### ■ Registration of configuration data

- The configuration data must be registered in FP7 to use the operation history function.
- The configuration data can be registered in PLC by the following three procedures.
  1. Download from the tool software
  2. When the power is ON during the SD card operation or when switching the mode from PROG to RUN
  3. When pressing the COPY switch

For the procedures 2 and 3, operation history files must be saved in the AUTO folder.

To redefine an operation history buffer, stop the operation history function.

- Downloaded data is stored in the non-volatile memory in the PLC, and held until it is deleted or re-registered.
- The configuration data that is stored in the AUTO folder of an SD card by the tool software can also be automatically loaded and stored in the PLC when the power turns ON in the case of the SD card operation or when the mode is switched from PROG to RUN. [File name: ALMGNT.FP7]

Although it is transferred to and operated in the PLC internal RAM, the project data or operation history setting in the PLC internal ROM cannot be changed.

### Note

- Only the operation history setting file cannot be automatically loaded.
- The configuration data of operation history can also be loaded and stored by pressing the COPY switch after inserting the above-described SD card to the PLC.  
The operation history setting file is copied to the PLC internal ROM and operated.

### Note

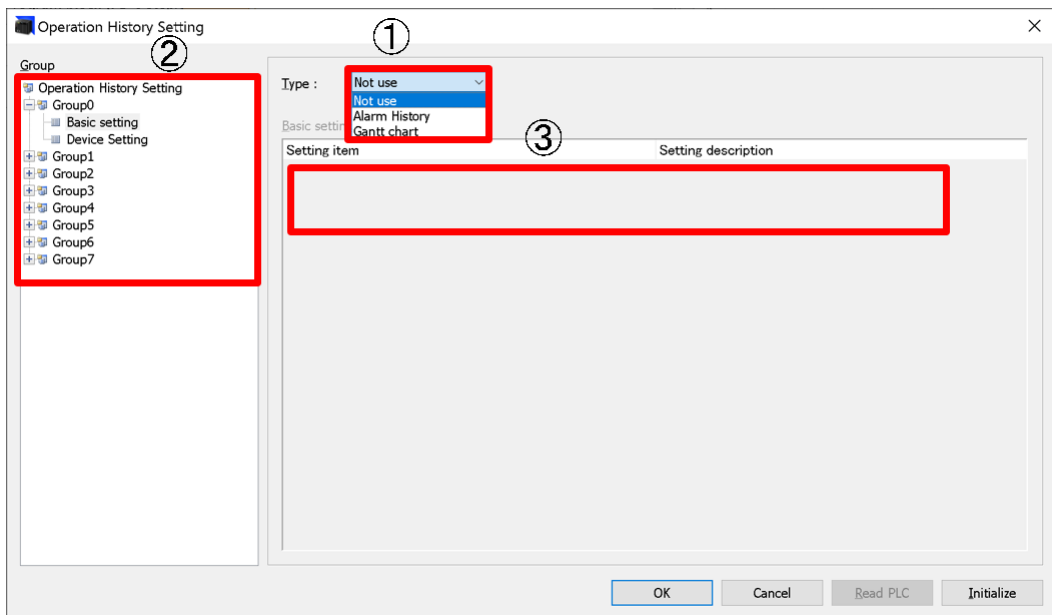
- When using the COPY switch, only the operation history setting file can be copied.
  - Only one generation of the operation history configuration can be registered in the PLC.
- **Precaution when downloading the operation history configuration data from PC or SD card**

Use the operation history setting created in a project to be executed.

The operation history setting created in a different project from the executed project may not be activated.

There is no problem when it is downloaded together with the project data, however, be careful when only the operation history setting is downloaded or copied from an SD card.

### ■ Setting items common to Alarm History and Gantt chart



(1)	For Type, select "Alarm History" or "Gantt chart".
(2)	Up to settings of eight groups for the alarm history and Gantt chart can be shared.
(3)	Up to 3000 histories can be recorded in 8 groups. They can be assigned freely to eight groups.

(MEMO)



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## 6.1 Functions Common to Software Control Web Creator Parts

This section describes functions common to Software Control Web Creator parts.

Usable parts of Software Control Web Creator vary depending on the web server function model selected in each project.

For details, refer to "5.4.1 Differences by Web Server Function Models".

### 6.1.1 Multilingualization of Parts Display

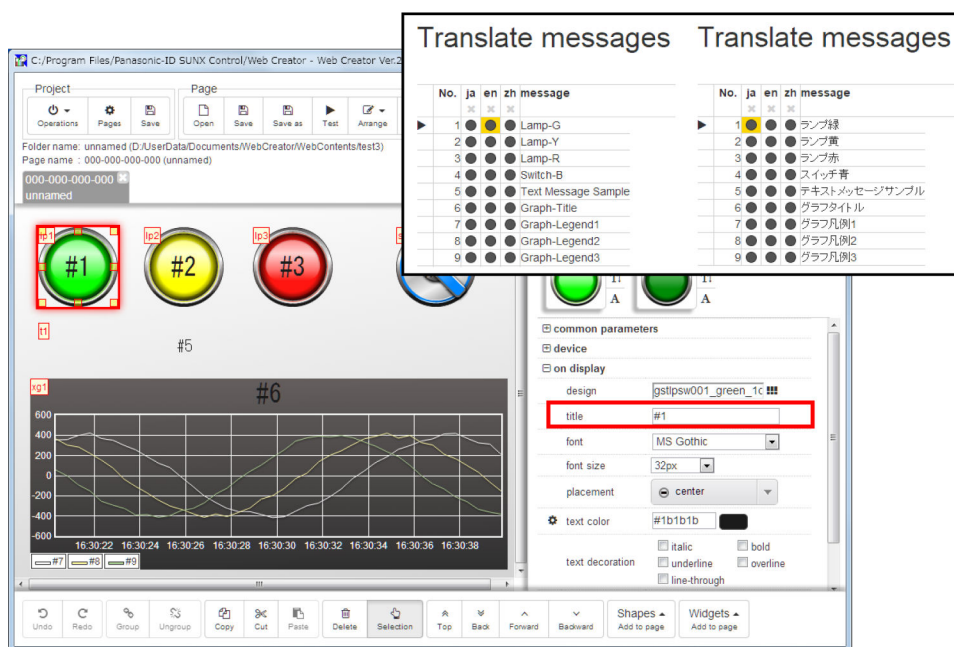
Web pages can be multilingualized by registering messages of each language in advance and specifying message numbers for parts.

This section describes the procedure of setting message numbers to parts.

For details of the method of registering messages, refer to "5.5.12 Multilingual Message Setting".

#### 1 2 Procedure

1. Set "#xxx" (xxx: message number you want to display) in the position where you want to display a message for each part.



(Setting example)

Lamp, switch parts: Set in title.

Text parts: Set in text.

Extended graph: Set in title and label of data source.

\* Messages can also be set for other parts than the above parts (such as dialog parts).

2. When the screen is displayed in a browser, a bar for switching the displayed language is shown in the upper right corner of the screen.

## 6.1 Functions Common to Software Control Web Creator Parts



Once the language is switched, the setting state is kept when the screen is switched to another screen.

Unless the cookie is deleted, this setting state cannot be reset even when the browser is closed.

### 6.1.2 Method of Specifying Character Size Larger Than 100 px

For specifying the font size larger than 100 px, set as below.

alignment	center
vertical alignment	middle
color	#1b1b1b
decoration	<input type="checkbox"/> italic <input type="checkbox"/> bold <input type="checkbox"/> underline <input type="checkbox"/> overline <input type="checkbox"/> line-through
text size	Any setti 300px
text font	MS Gothic

Item	Setting
Text size	Select a text size from the list. For specifying a size larger than 100 px, select "Any setting" from the list.
Text size (Input)	When selecting "Any setting", a desired text size can be input. The maximum text size is 4000 px.

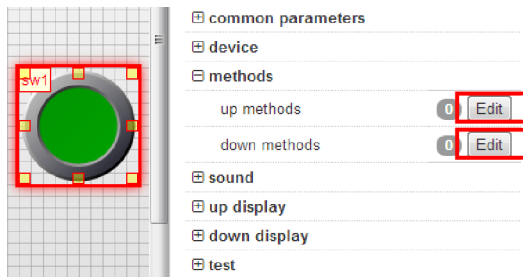
### 6.1.3 Operations When Operating Parts

For the parts that click operation is available such as switch parts, events at the time of click operation can be registered.

The operations when operating parts can be registered for the following four parts.

Part name	Switch	Lamp-switch	Dialog	Graphic

Pressing the [Edit] button of the setting "methods" opens the operation setting screen.



Register events at the time of click operation in the operation setting screen.

A maximum of ten events can be registered.

However, more than one events related to the switching pages cannot be registered.

#### Methods settings

+ bitset
+ wordset
+ digitset
+ pagechange
+ Language menu
+ Play sound

+ HTTP GET
+ HTTP POST

**bitset, execution number # 1** Delete

Mode set ▼

Target device type Global ▼

device type R ▼

No. 0

Apply
Cancel

The registrable events are as follows.

## 6.1 Functions Common to Software Control Web Creator Parts

Type	Setting	Operation
bitset	set	Turns on a bit device.
	reset	Turns off a bit device.
	invert	Reverses a bit device.
wordset	set	Set a specified value.
	add	Add a specified value.
	sub	Subtract a specified value.
	and	Sets the result of logical AND with a device acquisition value.
	or	Sets the result of logical OR with a device acquisition value.
	xor	Sets the result of exclusive OR with a device acquisition value.

Type	Setting	Operation
digitset	add	Adds 1 to a specified number of digits.
	sub	Subtracts 1 from a specified number of digits.
pagechange	Previous page (-1)	Displays the previous page.
	Next page (+1)	Displays the next page.
	Move to a page (page number)	Displays the page for the specified screen number.
	Move to a page (file name)	Displays the page for the specified file name.
	Move N pages backward	Displays the page N pages before the current page.
	Move N pages forward	Displays the page N pages after the current page.
	Move to a URL	Displays the page specified with URL

Type	Setting	Operation
Language menu	Show	Displays the language switching menu.
	Hide	Hides the language switching menu.
Play sound	File name	Reproduces the sound of a specified file.

(Note 1) More than one language switching operation or audio playback operation cannot be registered in the same operation.

(Note 2) For the description of audio playback, refer to "[About audio playback](#)".

Type	Setting	Operation
HTTP GET	URL	The specified GET request is sent.
HTTP POST	URL	The specified POST request is sent.
	Parameter	The parameter to be sent by a POST request is specified.

(Note 1) For the description of "HTTP GET" and "HTTP POST", refer to "[Sending an HTTP request](#)".

### About audio playback

The audio playback can be selected by the operation settings such as switches.

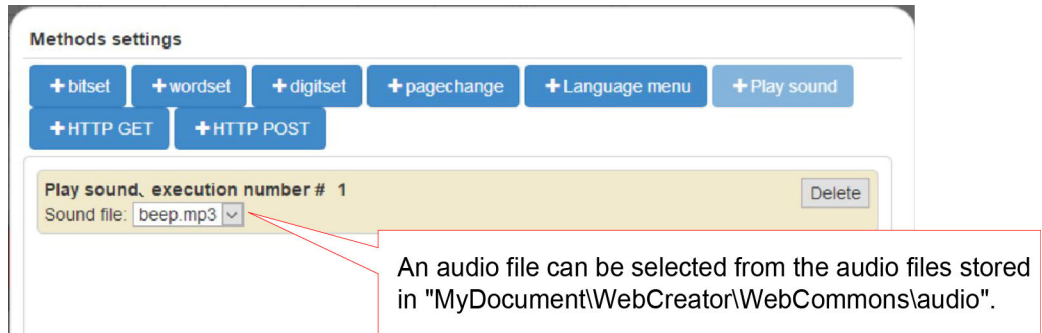


## 6.1 Functions Common to Software Control Web Creator Parts

Audio files you want to reproduce should be stored in the "MyDocument\WebCreator\WebCommons\audio" folder in advance.

By setting audio files stored in the WebCommons folder in advance, audio files can be reproduced when operating switches.

If an audio file is reproduced under the reproduction of another audio file, the sound under reproduction will stop and the new audio file will be reproduced.



The screenshot shows the 'Methods settings' window with several buttons: '+bitset', '+wordset', '+digitset', '+pagechange', '+Language menu', '+Play sound', '+HTTP GET', and '+HTTP POST'. Below these is a configuration for 'Play sound, execution number # 1'. The 'Sound file' dropdown menu is set to 'beep.mp3'. A callout box with a red border and arrow points to the dropdown menu, containing the text: 'An audio file can be selected from the audio files stored in "MyDocument\WebCreator\WebCommons\audio".'

The formats of audio files that can be reproduced are as follows.

Available audio file formats: "AAC", "MP3", "OGG", "WAV"

File format	File extension	
AAC	***.aac	
MP3	***.mp3	
OGG	***.ogg	
WAVE	***.wav	

For details of the storage locations of audio files, refer to "4.2 Folder Structure of Software Control Web Creator".

## Sending an HTTP request

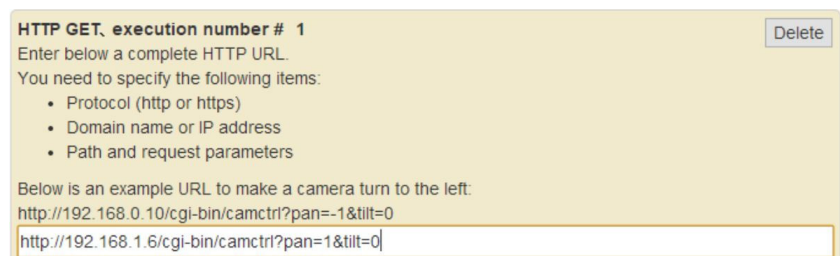
An HTTP request can be selected by setting switch operation.

The method (GET or POST) and the connection method (http or https) can be specified.

GET request



Setting screen



The screenshot shows the 'HTTP GET, execution number # 1' configuration screen. It includes a 'Delete' button in the top right corner. The text reads: 'Enter below a complete HTTP URL. You need to specify the following items:'. A bulleted list follows: '• Protocol (http or https)', '• Domain name or IP address', and '• Path and request parameters'. Below this, it says: 'Below is an example URL to make a camera turn to the left: http://192.168.0.10/cgi-bin/camctrl?pan=-1&tilt=0'. A text input field at the bottom contains the URL: http://192.168.1.6/cgi-bin/camctrl?pan=1&tilt=0.

## 6.1 Functions Common to Software Control Web Creator Parts

---

POST request



Setting screen

**HTTP POST, execution number # 1** Delete

Enter below a complete HTTP URL.

You need to specify the following items:

- Protocol (http or https)
- Domain name or IP address
- Path

Set the POST parameters in the box below.

- You can set one parameter per row.
- Each row should be in format 'name=value'.
- Example of parameter setting: a=23

### 6.2 Types of Web Parts and Descriptions of Properties

This section describes the types of web parts that can be used in Software Control Web Creator and properties of the parts.

#### ■ Types of parts

No.	Types of parts	Description	Software Control Web Creator version	Reference page
1)	Lamp	Part whose color changes according to the ON/OFF state of a bit device.	Ver.1.0 or later	"P.6-13"
2)	Lamp-switch	Part in which lamp and switch functions are combined.	Ver.1.0 or later	"P.6-15"
3)	Switch	Part which turns ON/OFF a bit device.	Ver.1.0 or later	"P.6-19"
4)	Slider	Part which operates word device values by the slide operation.	Ver.2.0 or later	"P.6-23"
5)	Rotary-switch	Part which operates word device values by the position operation.	Ver.2.0 or later	"P.6-26"
6)	Dialog	Part which displays a message window and switch on the screen. The message window can be displayed or hidden by turning ON/OFF the bit device.	Ver.2.0 or later	"P.6-29"
7)	N-State	Multiple status displays are switched by word device values.	Ver.1.0 or later	"P.6-32"
8)	Meter	A word device value is displayed with a meter.	Ver.1.0 or later	"P.6-35"
9)	Line-graph	Displays a line graph.	Ver.1.0 or later	"P.6-39"
10)	Bar-graph	Displays a bar graph.	Ver.1.0 or later	"P.6-43"
11)	Extended-graph	Part in which the functions of line graph and bar graph are combined. A maximum of 32 graph displays are possible.	Ver.3.1 or later	"P.6-47"
12)	Level graph	Parts which displays graphs of multiple groups. (Exclusive parts for KW2M-X)	Ver.3.0 or later	"P.6-61"
13)	Integration graph	An integration graph is displayed with a bar graph or pie chart.	Ver.3.3 or later	"P.6-67"
14)	SD Card Logging Graph	This part is used to read data from the logging file saved in the SD card inside FP7, and displays a graph on the web browser.	Ver.3.3 or later	"P.6-75"
15)	Data	Part which displays or writes word device values.	Ver.1.0 or later	"P.6-83"
16)	Table	Part which displays/writes devices in tabular form.	Ver.3.0 or later	"P.6-93"

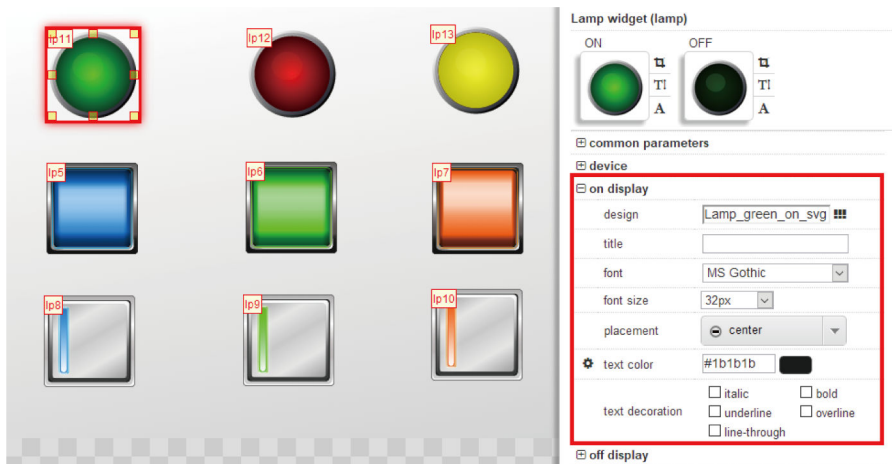
## 6.2 Types of Web Parts and Descriptions of Properties

No.	Types of parts	Description	Software Control Web Creator version	Reference page
17)	Message	Part which displays a message corresponding to a message number stored in a word device. For details of the setting method of message, refer to <a href="#">"5.5.12 Multilingual Message Setting"</a> .	Ver.1.0 or later	<a href="#">"P.6-101"</a>
18)	Alarm history	This part is used to monitor the statuses of bit devices of the PLC and record them in the non-volatile memory within the FP7.	Ver.3.4 or later	<a href="#">"P.6-104"</a>
19)	Gantt chart	This part is used to monitor the statuses of bit devices of the PLC and record them in the non-volatile memory within the FP7.	Ver.3.4 or later	<a href="#">"P.6-127"</a>
20)	Media player	Part which reproduces a moving image file. (Exclusive parts for FP7 and ELC500)	Ver.2.0 or later	<a href="#">"P.6-145"</a>
21)	Camera	Part which can be used with a corresponding network camera manufactured by Panasonic. Camera images are displayed and the view point of the camera can be changed.	Ver.2.0 or later	<a href="#">"P.6-148"</a>
22)	General-use camera	General-use camera parts can be linked with Panasonic network cameras that support CGI commands.	Ver.3.3 or later	<a href="#">"P.6-153"</a>
23)	Text	Part which displays a fixed character string on the screen.	Ver.1.0 or later	<a href="#">"P.6-156"</a>
24)	Shapes	Part which displays an arbitrary graphic. The functions of switch and lamp parts can also be used by specifying bit devices.	Ver.2.0 or later	<a href="#">"P.6-158"</a>

## 6.3 Lamp Parts

The control by lamps is available.

### 6.3.1 On/Off Display Settings



Setting	Description
design	Select a design of the part. * Arbitrary images cannot be specified.
title	Specify a title of the lamp.
title font	Specify the character font used for the title.
title size	Specify the character size of the title.
alignment	Specify the display position of the characters set as the title.
color	Specify the character color of the title.
decoration	Select the text decoration from italic/bold/underline/overline/line-through.

### 6.3.2 Properties of Lamp Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.

## 6.3 Lamp Parts

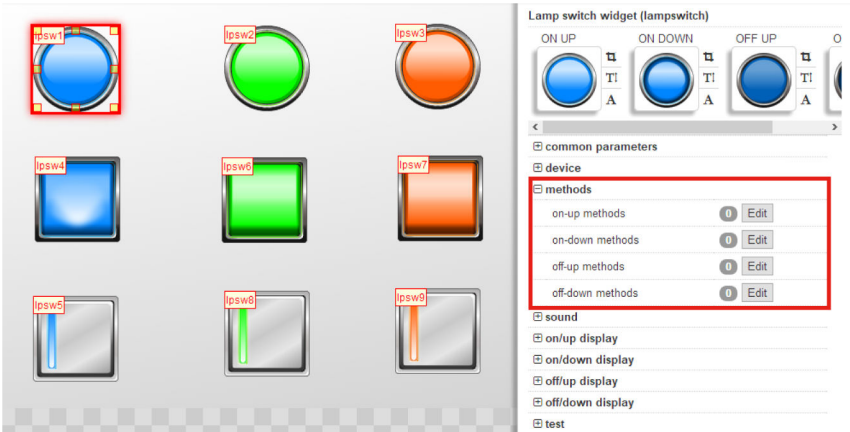
---

Property	Description
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
lamp status	Bit device to be referred
lamp status mode	a-contact / b-contact
blinking	Blink or not blink
blinking bit	Bit device to be referred for blinking.
blinking bit mode	a-contact / b-contact
on display	Display setting when a lamp is on.
design	Image displayed when the lamp status is ON.
title	Character string displayed when the lamp status is ON.
font	Font of the character string displayed when the lamp status is ON.
font size	Size of the character string displayed when the lamp status is ON.
alignment	Position of the character string displayed when the lamp status is ON.
text color	Color of the character string displayed when the lamp status is ON.
decoration	Modification of the character string displayed when the lamp status is ON.
off display	Display setting when a lamp is off.
design	Image displayed when the lamp status is OFF.
title	Character string displayed when the lamp status is OFF.
font	Font of the character string displayed when the lamp status is OFF.
font size	Size of the character string displayed when the lamp status is OFF.
alignment	Position of the character string displayed when the lamp status is OFF.
text color	Color of the character string displayed when the lamp status is OFF.
decoration	Modification of the character string displayed when the lamp status is OFF.
test	Display confirmation setting when editing a screen.
turn on	Turns ON/OFF a lamp.

6.4 Lamp-switch Parts

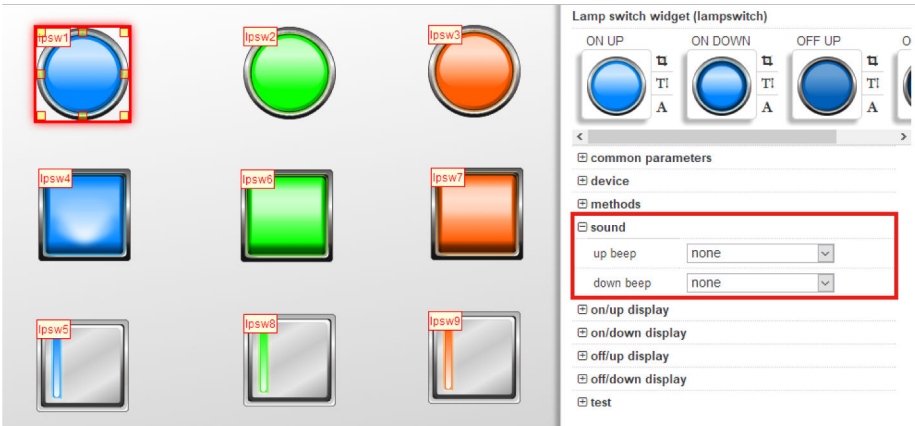
The control by lamp-switch parts is available.

6.4.1 Lamp-switch Operation Settings



Setting	Description
on-up methods	Set operation that the lamp on button is returned.
on-down methods	Set operation that the lamp on button is pressed.
off-up methods	Set operation that the lamp off button is returned.
off-down methods	Set operation that the lamp off button is pressed.

6.4.2 Lamp-switch Sound Settings

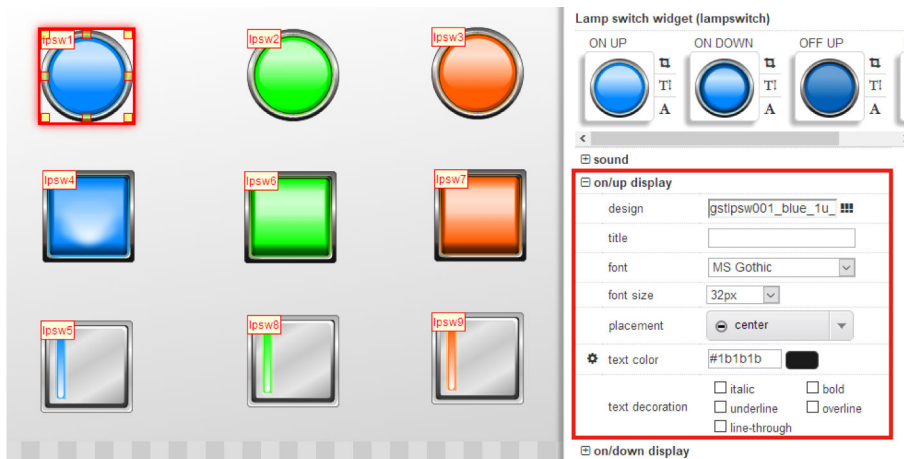


Setting	Description
up beep	Set sound emitted when a button is returned.

## 6.4 Lamp-switch Parts

Setting	Description
	<ul style="list-style-type: none"> <li>none</li> <li>beep</li> <li>gong</li> <li>laser</li> </ul>
down beep	Set sound emitted when a button is pressed. <ul style="list-style-type: none"> <li>none</li> <li>beep</li> <li>gong</li> <li>laser</li> </ul>

### 6.4.3 Lamp-switch Display Settings



#### Common (on/up display, on/down display, off/up display, off/down display)

Setting	Description
design	Select a design of the part. * Arbitrary images cannot be specified.
title	Specify a title of the lamp.
font	Specify the character font used for the title.
font size	Specify the character size of the title.
placement	Specify the display position of the characters set as the title.
text color	Specify the character color of the title.
text decoration	Select the text decoration from italic/bold/underline/overline/line-through.

### 6.4.4 Properties of Lamp-switch Parts



## ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
switch read device	Bit device for referring to the status of a switch.
switch write device	Bit device for writing the status of a switch.
switch mode	Set/Reset/Momentary-set/Invert
interlock device	Bit device for referring to the valid or invalid state of switch operation.
interlock mode	a-contact / b-contact
lamp status	Bit device to be referred
lamp status mode	a-contact / b-contact
blinking	Blink or not blink, and blink intervals.
blinking bit	Bit device to be referred for blinking.
blinking bit mode	a-contact / b-contact
methods	Operation settings for operating buttons.
on-up methods	Operation that the lamp on button is returned.
on-down methods	Operation that the lamp on button is pressed.
off-up methods	Operation that the lamp off button is returned.
off-down methods	Operation that the lamp off button is pressed.
sound	Operation sound settings
up beep	Sound when a button is returned.
down beep	Sound when a button is pressed.
on/up display	Display settings when the lamp on button is returned.
design	Image
title	Character string
font	Font of the character string
font size	Size of the character string
alignment	Display position of the character string
text color	Color of the character string

## 6.4 Lamp-switch Parts

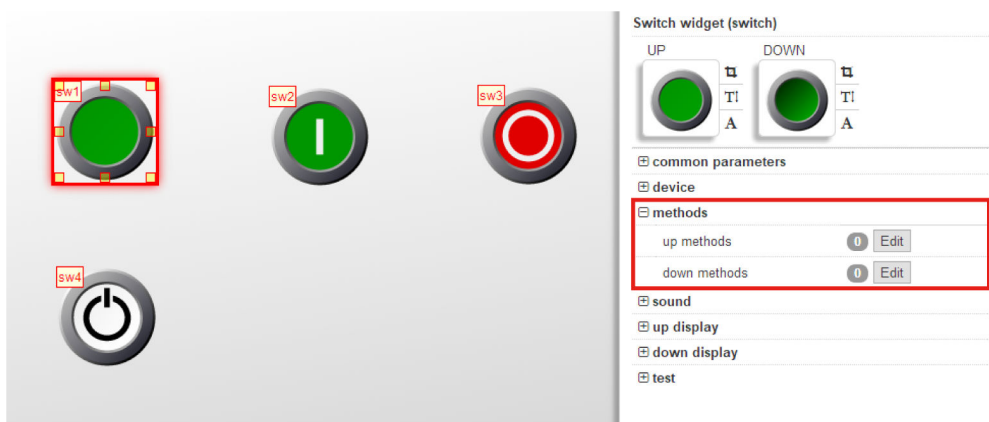
---

Property	Description
decoration	Modifications of the character string
on/down display	Display settings when the lamp on button is pressed.
design	Image
title	Character string
font	Font of the character string
font size	Size of the character string
alignment	Display position of the character string
text color	Color of the character string
decoration	Modifications of the character string
off/up display	Display settings when the lamp off button is returned.
design	Image
title	Character string
font	Font of the character string
font size	Size of the character string
alignment	Display position of the character string
text color	Color of the character string
decoration	Modifications of the character string
off/down display	Image when the lamp off button is pressed
design	Image
title	Character string
font	Font of the character string
font size	Size of the character string
alignment	Display position of the character string
text color	Color of the character string
decoration	Modifications of the character string
test	Display confirmation setting when editing a screen.
turn on	Turns ON/OFF a lamp.
release	Turns ON/OFF a switch.

## 6.5 Switch Parts

The control by switches is available.

### 6.5.1 Switch Operation Settings



Switch widget (switch)

UP DOWN

common parameters

device

methods

up methods Edit

down methods Edit

sound

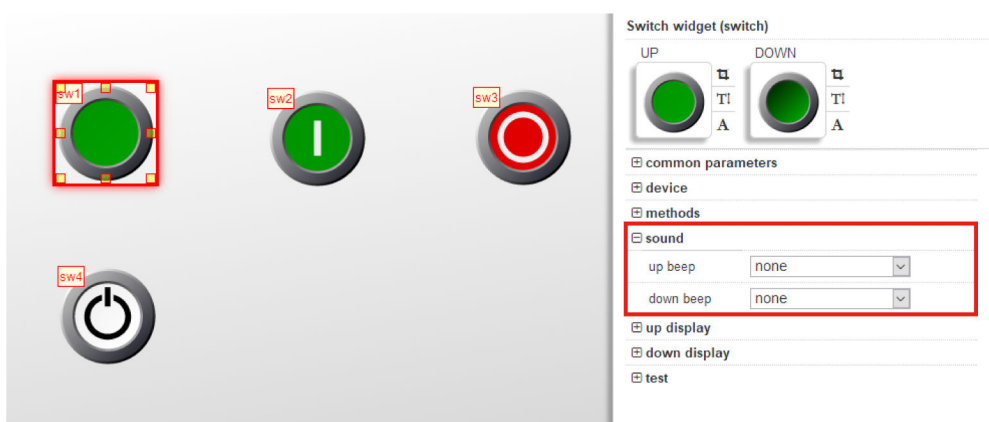
up display

down display

test

Setting	Description
up methods	Set operation performed when the button is returned/up (on the left).
down methods	Set operation performed when the button is pressed/down (on the right).

### 6.5.2 Switch Sound Settings



Switch widget (switch)

UP DOWN

common parameters

device

methods

sound

up beep none

down beep none

up display

down display

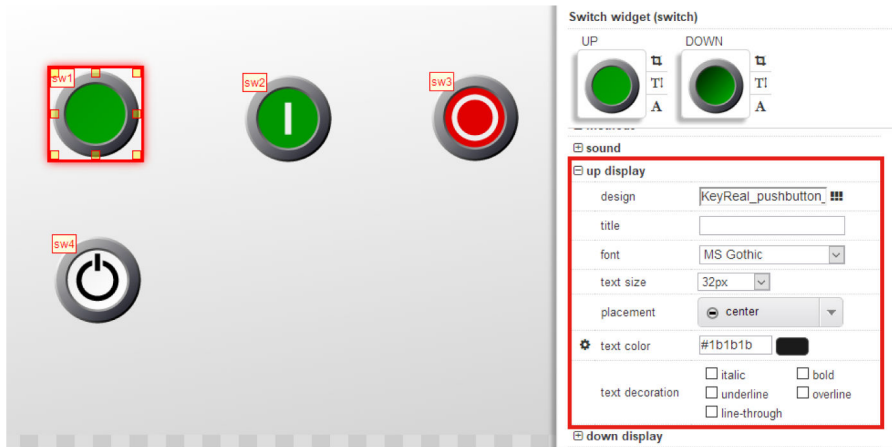
test

Setting	Description
up beep	Set sound emitted when a button is returned.

## 6.5 Switch Parts

Setting	Description
	<ul style="list-style-type: none"> <li>none</li> <li>beep</li> <li>gong</li> <li>laser</li> </ul>
down beep	Set sound emitted when a button is pressed. <ul style="list-style-type: none"> <li>none</li> <li>beep</li> <li>gong</li> <li>laser</li> </ul>

### 6.5.3 Switch Display Settings



#### Common (up display, down display)

Setting	Description
design	Select a design of the part. * Arbitrary images cannot be specified.
title	Specify a title of the lamp.
font	Specify the text font used for the title.
text size	Specify the character size of the title.
placement	Specify the display position of the characters set as the title.
text color	Specify the character color of the title.
text decoration	Select the text decoration from italic/bold/underline/overline/line-through.

### 6.5.4 Properties of Switch Parts

## ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
switch read device	Bit device for referring to the status of a switch.
switch write device	Bit device for writing the status of a switch.
switch mode	Set/Reset/Momentary-set/Invert
interlock device	Bit device for referring to the valid or invalid state of switch operation.
interlock mode	a-contact / b-contact
methods	Operation settings for operating switches.
up methods	Operation when the button is returned/up (on the left).
down methods	Operation when the button is pressed/down (on the right).
sound	Operation sound settings
up beep	Sound when a button is returned.
down beep	Sound when a button is pressed.
up display	Display setting when a lamp is on.
design	Image displayed when the switch read device is ON.
title	Character string displayed when the switch read device is ON.
font	Font of the character string displayed when the switch read device is ON.
text size	Size of the character string displayed when the switch read device is ON.
alignment	Position of the character string displayed when the switch read device is ON.
text color	Color of the character string displayed when the switch read device is ON.
decoration	Modification of the character string displayed when the switch read device is ON.
down display	Display setting when a lamp is off.
design	Image displayed when the switch read device is ON.
title	Character string displayed when the switch read device is ON.

## 6.5 Switch Parts

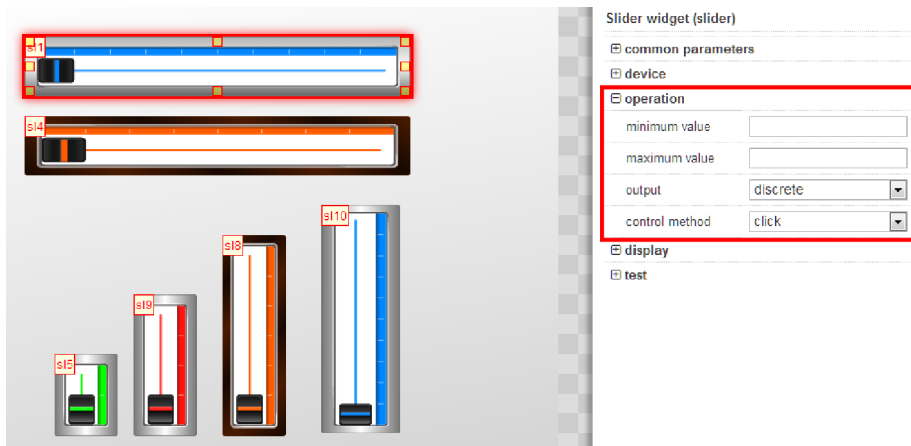
---

Property	Description
font	Font of the character string displayed when the switch read device is ON.
text size	Size of the character string displayed when the switch read device is ON.
alignment	Position of the character string displayed when the switch read device is ON.
text color	Color of the character string displayed when the switch read device is ON.
decoration	Modification of the character string displayed when the switch read device is ON.
test	Display confirmation setting when editing a screen.
release	Turns ON/OFF a switch.

## 6.6 Slider Parts

The control by the slide operation is available.

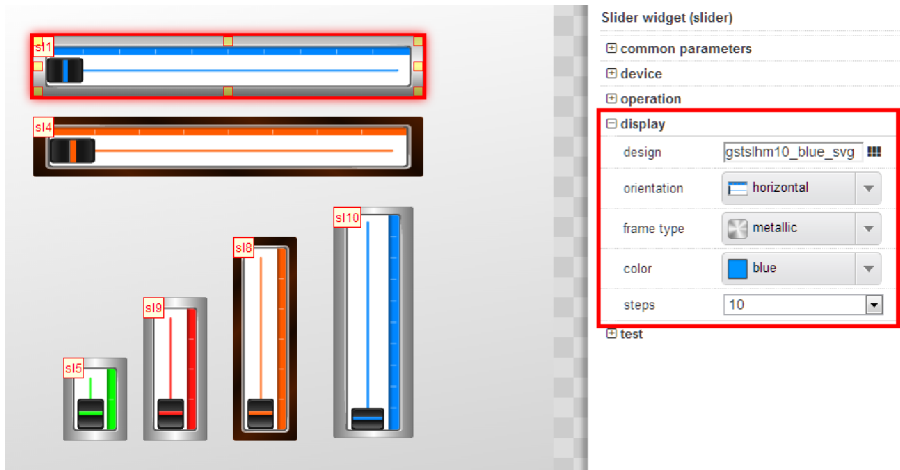
### 6.6.1 Setting for slide operation method



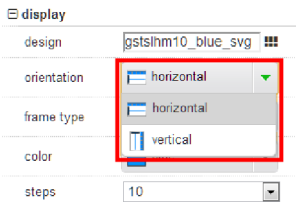
Setting	Description
minimum value	Output value when the slide is set to the minimum value.
maximum value	Output value when the slide is set to the maximum value.
output	discrete: The slide can be moved at certain graduated intervals. continuous: The slide can also be set between graduated intervals.
control method	click: The slide operation is performed only by a click operation. drag: The slide operation is performed by a click operation or drag operation.

### 6.6.2 Method of Changing Parts Design

## 6.6 Slider Parts



Setting	Description
design	Select a design of the part. * Arbitrary images cannot be specified.
orientation	Select "horizontal/vertical" for the slide direction.
frame type	Select "metallic/plastic" for the appearance of the frame.
color	Select a color of the part from the list.
steps	Specify the interval for the step operation. The number of scales of the slide part varies according to the number of steps.



(Note 1) Web parts settings in some setting items such as orientation and frame type can be confirmed as images.

### 6.6.3 Properties of Slider Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.



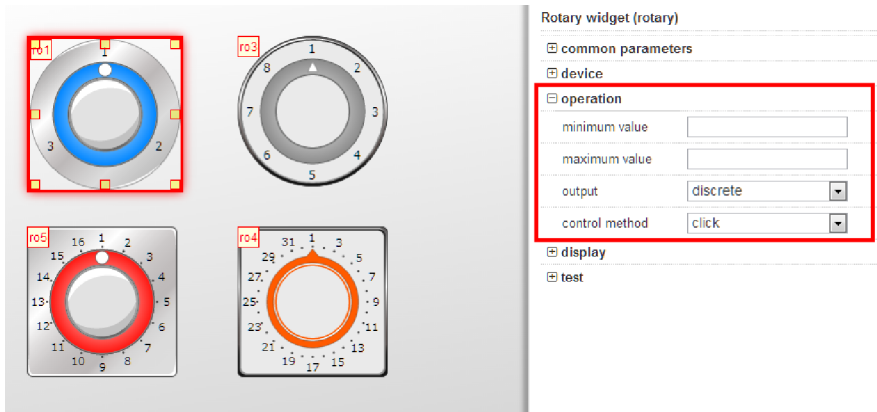
Property	Description
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
read device	Readout source device
write device	Write destination device
write index device	Write destination device for index modification
enable bit device	Bit device for referring to the valid state of operation
enable mode	a-contact / b-contact
operation	Settings related to the operation of parts.
minimum value	Output value to devices when the slider is set to minimum.
maximum value	Output value to devices when the slider is set to maximum.
output	discrete: The slide can be moved at certain graduated intervals. continuous: The slide can also be set between graduated intervals.
control method	click: The slide operation is performed only by a click operation. drag: The slide operation is performed by a click operation or drag operation.
display	Settings related to the display of parts.
design	Design of a part
orientation	Sliding direction
frame type	Appearance design of a part
color	Color of a part
steps	Number of memories of a part
test	Display confirmation setting when editing a screen.
value	Display value

## 6.7 Rotary Switch Parts

### 6.7 Rotary Switch Parts

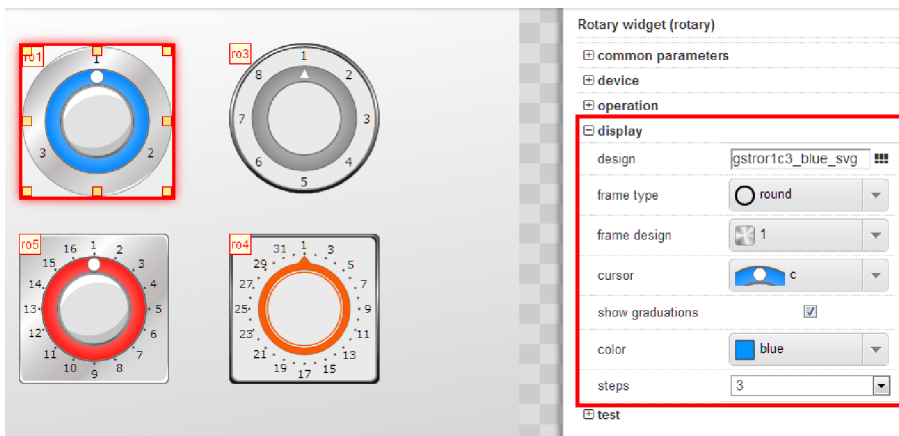
The control by rotary switches is available.

#### 6.7.1 Setting for Rotary Switch Operation Method



Setting	Description
minimum value	Output value when the slide is set to the minimum value.
maximum value	Output value when the slide is set to the maximum value.
output	discrete: The slide can be moved at certain graduated intervals. continuous: The slide can also be set between graduated intervals.
control method	click: The operation is performed only by a click operation. drag: The operation is performed by a click operation or drag operation.

#### 6.7.2 Method of Changing Parts Design



Setting	Description
design	Select a design of the part. * Arbitrary images cannot be specified.
frame type	Select the frame shape from square / round.
frame design	Select the frame appearance from pattern 1 / pattern2.
cursor	Select the cursor shape from round / triangle 1 / triangle 2.
show graduations	Select the check box to display graduations or deselect the check box to hide graduations.
color	Select a color of the part from the list. The number of scales of the slide part varies according to the number of steps.
steps	Specify the interval for the step operation.

(Note 1) Some of web parts setting items such as orientation and frame type allow the confirmation of images of specified settings.

### 6.7.3 Properties of Rotary Switch Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
read device	Readout source device
write device	Write destination device
write index device	Write destination device for index modification
enable bit device	Bit device for referring to the valid state of operation
enable mode	a-contact / b-contact
operation	Settings related to the operation of parts.
minimum value	Output value to devices when the slider is set to minimum.
maximum value	Output value to devices when the slider is set to maximum.
output	discrete: The slide can be moved at certain graduated intervals. continuous: The slide can also be set between graduated intervals.

## 6.7 Rotary Switch Parts

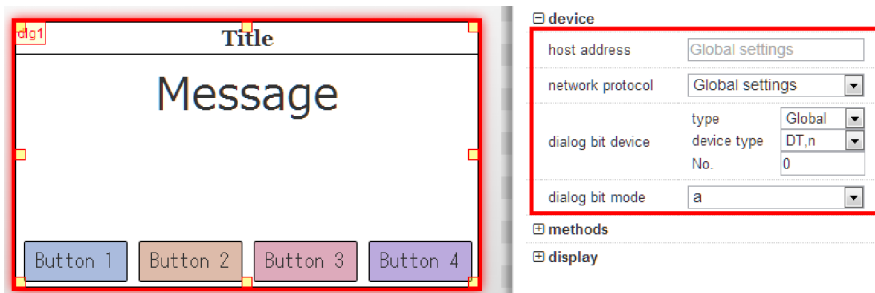
---

Property	Description
control method	click: The slide operation is performed only by a click operation. drag: The slide operation is performed by a click operation or drag operation.
display	Settings related to the display of parts.
design	Design of a part
frame type	Shape of a part
frame design	Appearance of a part
cursor	Shape of a cursor
show graduations	Display setting of values
color	Color of a part
steps	Number of memories of a part
test	Display confirmation setting when editing a screen.
value	Turns ON/OFF a switch.

## 6.8 Dialog Parts

The dialog parts can be switched between displaying and hiding, and the controlled content can be set for each button of dialog parts individually.

### 6.8.1 Method of switching between displaying and hiding dialog part



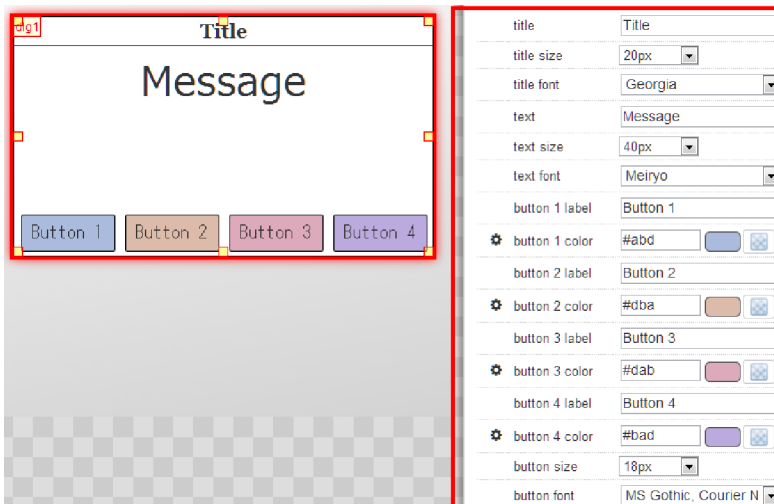
The dialog part is displayed when the set bit device turns ON (\*1).

The part is not displayed when the bit device is OFF (\*1).

\*1: This operation is performed when "dialog bit mode" is "a".

When the mode is set to "b", the part is displayed when the bit device is OFF.

For changing the display contents of dialog parts, change the following settings.

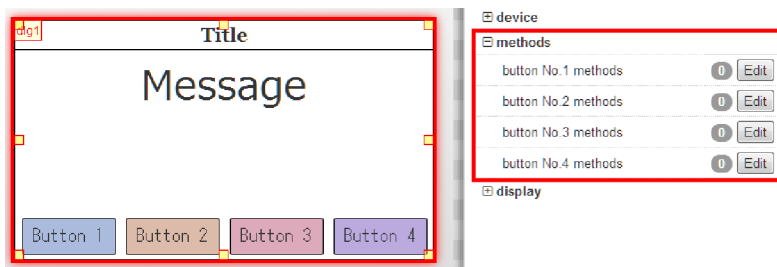


Setting	Description
title	Message displayed in the title bar of dialog part.
title size	Character size of "title".
title font	Character font of "title".
text	Body text of dialog part.
Character size of "text".	Character size of "text".
title font	Character font of "text".

## 6.8 Dialog Parts

Setting	Description
button n label	Character string displayed in "button n". When this is not input (blank), the button n is not displayed.
button n color	Color of "button n".
button size	Character size of "button n".
button font	Character font of "button n".

### 6.8.2 Button operation setting



(Note 1) The operation performed when each button is pressed can be set from each "Edit" of buttons 1 to 4.

### 6.8.3 Properties of Dialog Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
read device	Readout destination bit device
dialog bit mode	a-contact / b-contact
methods	Button operation of a dialog

---

Property	Description
button No.1 methods	Method to be executed when button No.1 is pressed.
button No.2 methods	Method to be executed when button No.2 is pressed.
button No.3 methods	Method to be executed when button No.3 is pressed.
button No.4 methods	Method to be executed when button No.4 is pressed.
display	Display setting of a dialog
title	Title of a dialog
title size	Character size of a title
title font	Character font of a title
text	Main text of a dialog
text size	Character size of a title
text font	Character font of a title
button 1 label	Character string displayed in " button 1".
button 1 color	Color of button 1
button 2 label	Character string displayed in " button 2".
button 2 color	Color of button 2
button 3 label	Character string displayed in " button 3".
button 3 color	Color of button 3
button 4 label	Character string displayed in " button 4".
button 4 color	Color of button 4
button size	Character size displayed in a dialog.
button font	Font of characters

## 6.9 N-state Parts

### 6.9 N-state Parts

An N-state part is a part that can change display of the part in accordance with a value of the device whose state is read.

If DT0 is designated as the device whose state is read, the part switches its display as follows: display for state #0 when the DT0 value is 0 and display for state #1 when the DT0 value is 1.

#### 6.9.1 animation

##### animation

design for state #0 `Compressor_d00_svg` 

design for state #1 `Compressor_d01_svg` 

design for state #2 `Compressor_d02_svg` 

design for state #3 `Compressor_d03_svg` 

design for state #4 `Compressor_d04_svg` 

design for state #5 `Compressor_d05_svg` 

design for state #6 `Compressor_d06_svg` 

design for state #7 `Compressor_d07_svg` 

design for state #8 `KeyReal_frame_single` 

design for state #9 `KeyReal_frame_single` 

design for state #10 `KeyReal_frame_single` 

design for state #11 `KeyReal_frame_single` 

design for state #12 `KeyReal_frame_single` 

design for state #13 `KeyReal_frame_single` 

design for state #14 `KeyReal_frame_single` 

design for state #15 `KeyReal_frame_single` 



Setting	Description
designs for states #0 to #15	Shapes displayed when the state device value ranges from 0 to 15.

### 6.9.2 Display

[-] **display**

title

title font

title size

placement

color

decoration  italic  bold  
 underline  overline  
 line-through

Setting	Description
title	Title character string of a part
title font	Font of title characters
title size	Size of title characters
alignment	Display position of title character string
color	Color of title characters
decoration	Modification of title character string

### 6.9.3 Test

[-] **test**

state

Setting	Description
state	Status display

## 6.9 N-state Parts

---

### 6.9.4 Properties of N-state parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
state device	Word address for referring to the state
animation	Display switch setting by status
designs for states #0 to #15	Shapes displayed when the state device value ranges from 0 to 15.
display	Display settings
title	Title character string of a part
title font	Font of title characters
title size	Size of title characters
placement	Display position of title character string
color	Color of title characters
decoration	Modification of title character string
test	Display confirmation setting when editing a screen.
state	Status display

## 6.10 Meter Parts

The range (low/middle/high) and color can be specified for some meter parts.

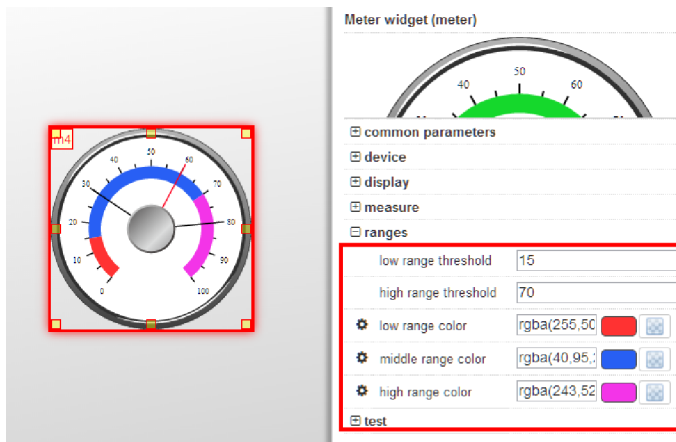
Minimum and maximum hold values can also be set to be displayed.

\* In the case of some meter parts, the following setting items may not be displayed.

Undisplayed meter parts do not support various functions.

For details, refer to "6.10.3 Meters That Various Functions Are Usable".

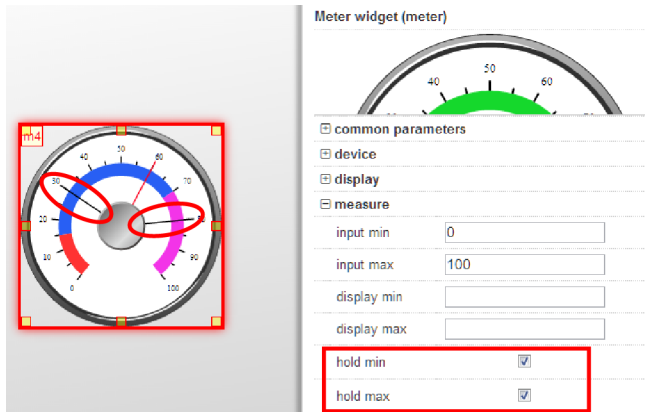
### 6.10.1 Range setting (low/middle/high)



Setting	Description
low range threshold	Set the thresholds of low and middle ranges.
high range threshold	Set the thresholds of middle and high ranges.
low range color	Set the color of low range.
middle range color	Set the color of middle range.
high range color	Set the color of high range.

### 6.10.2 Display of hold values

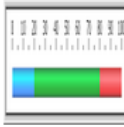

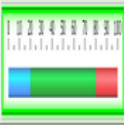

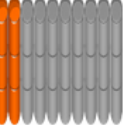
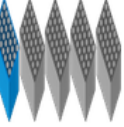

## 6.10 Meter Parts



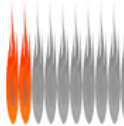
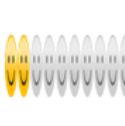


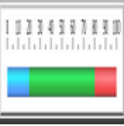


With the minimum hold value display and maximum hold value display settings enabled, the update of each hold value is displayed when the minimum or maximum value is updated.

### 6.10.3 Meters That Various Functions Are Usable

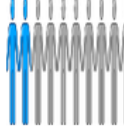
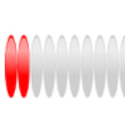



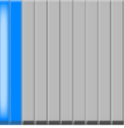
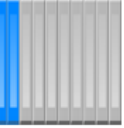
Usable functions for each meter are as follows.

							
Part name	gstm001	gstm002	gstm003	gstm004	gstm005	gstm006	gstm007
Low/Middle/High	•	-	•	-	-	-	-
Hold value	•	•	•	-	-	-	-








  








							
Part name	gstm008	gstm009	gstm010	gstm011	gstm012	gstm013	gstm014
Low/Middle/High	-	-	-	-	•	•	-
Hold value	-	-	-	•	•	•	•








  

							
Part name	gstm015	gstm016	gstm017	gstm018	gstm019	gstm020	gstm021

Low/Middle/High	-	-	-	•	•	-	-
Hold value	-	-	•	•	•	-	-

							
gstm022	gstm023	gstm024	gstm025	gstm026	gstm027	gstm028	
Part name	gstm022	gstm023	gstm024	gstm025	gstm026	gstm027	gstm028
Low/Middle/High	-	•	-	-	-	-	-
Hold value	-	•	•	-	-	-	-

							
gstrm029	gstrm030	gstrm031	gstrm032	gstrm001	gstrm002	gstrm003	
Part name	gstrm029	gstrm030	gstrm031	gstrm032	gstrm001	gstrm002	gstrm003
Low/Middle/High	-	-	-	-	-	-	•
Hold value	-	-	-	•	-	-	•

							
gstrm004	gstrm005	gstrm006	gstrm007	gstrm008	gstrm009	gstrm010	
Part name	gstrm004	gstrm005	gstrm006	gstrm007	gstrm008	gstrm009	gstrm010
Low/Middle/High	•	•	-	-	-	•	-
Hold value	•	•	•	•	•	•	•

### 6.10.4 Properties of Meter Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.

## 6.10 Meter Parts

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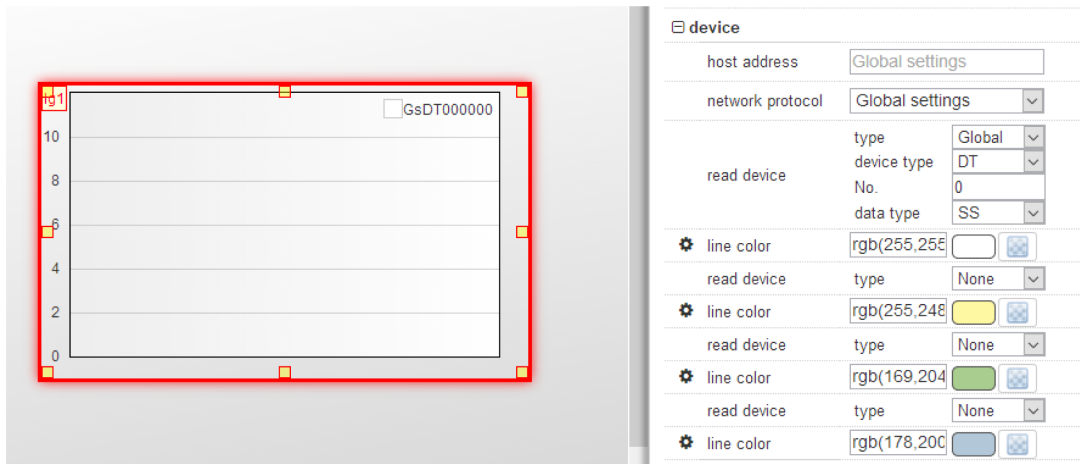
Property	Description
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
measure device	Word device to be referred
display	Display settings
design	Image of a meter
measure	Scaling settings of a meter
input min	Minimum value of input data
input max	Maximum value of input data
display min	Minimum value of display data
display max	Maximum value of display data
hold min	Setting for displaying/hiding hold values on the meter
hold max	Setting for displaying/hiding hold values on the meter
ranges	Settings of low, middle and high ranges of a meter
low range threshold	Threshold of low range
high range threshold	Threshold of high range
low range color	Color of the low range area
middle range color	Color of the middle range area
high range color	Color of the high range area
test	Display confirmation setting when editing a screen.
value	Display value

## 6.11 Line Graph Parts

### 6.11.1 Graph Setting

The number of groups to be displayed as graphs can be set.

The number of displayed graphs in each group can be individually set in each group setting.




Setting item	Description
<b>Device</b>	
host address	Specify the address of a reference device of a part. When unspecified, the common setting is used.
network protocol	Specify a communication protocol.
read device	Set reference word device of series 1
line color	Set line color of series 1
read device	Set reference word device of series 2
line color	Specify line color of series 2
read device	Set reference word device of series 3
line color	Specify line color of series 3
read device	Set reference word device of series 4
line color	Set line color of series 4

### 6.11.2 Graph Display Setting

The color of graphs and background can be specified in the graph setting.

## 6.11 Line Graph Parts



**graph**

mode:

refresh period:

max points:

ymin:

ymax:

border width:

border color:


fill color:

legend:

style:  ticks

Setting item	Description
mode	Set the type of the graph.
refresh period	Set the refresh period.
max points	Set the maximum number of points.
ymin	Set the minimum value of Y axis.
ymax	Set the maximum value of Y axis.
border width	Set the width of a graph border.
border color	Set the color of a graph frame.
fill color	Set the background color of the graph.
line width	Set the line width of a line graph.
legend	Set the display position of a legend.
style	Set items displayed on the graph.

### 6.11.3 Scale Settings



**device**

**graph**

**tick**

interval:

color:

size:

**title**

Setting	Description
interval	Set the scale interval.




Setting	Description
color	Set the color of an axis label.
size	Set the size of an axis label.

### 6.11.4 Title Setting

The title of graphs can be set.

The title cannot be changed from the upper part of the graphs.



The image shows a line graph with a title 'GsDT000000' in the upper right corner. The graph has a y-axis with values 0, 2, 4, 6, 8, 10. A red border highlights the graph area. To the right is a settings panel with the following options:

- device
- graph
- tick
- title
  - text:
  - alignment: center (dropdown)
  - color: #1b1b1b (color picker)
  - title size: 32px (dropdown)
  - title font: MS Gothic (dropdown)

Setting item	Description
title	Specify the title of graphs.
alignment	Specify the display position of the characters set as the title.
color	Specify the character color of the title.
title size	Specify the character size of the title.
title font	Specify the character font used for the title.

### 6.11.5 Properties of Line Graph Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting

## 6.11 Line Graph Parts

Property	Description
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
read device	Reference word device of series 1
line color	Line color of series 1
read device	Reference word device of series 2
line color	Line color of series 2
read device	Reference word device of series 3
line color	Line color of series 3
read device	Reference word device of series 4
line color	Line color of series 4
graph	Graph settings
mode	Graph type
refresh period	refresh period
max points	Max. number of points
ymin	Minimum value of Y axis
ymax	Maximum value of Y axis
border width	Width of a graph border
border color	Color of a graph frame
fill color	Background color of a graph
line width	Line width of a line graph
legend	Display position of a legend
style	Items displayed on the graph
tick	X-axis scale settings
interval	Scale interval
color	Color of an axis label
size	Size of an axis label
title	Title setting of a graph
text	Title character string
alignment	Title arrangement
color	Title color
title size	Title size
title font	Title font

**6.12 Bar Graph Parts**

**6.12.1 Graph Setting**

The number of groups to be displayed as graphs can be set.  
 The number of displayed graphs in each group can be individually set in each group setting.

The image shows a bar graph on the left and its configuration settings on the right. The graph has a vertical axis labeled from 0 to 10 and a horizontal axis with a label 'GsDT000000'. The configuration panel on the right is titled 'device' and contains the following settings:

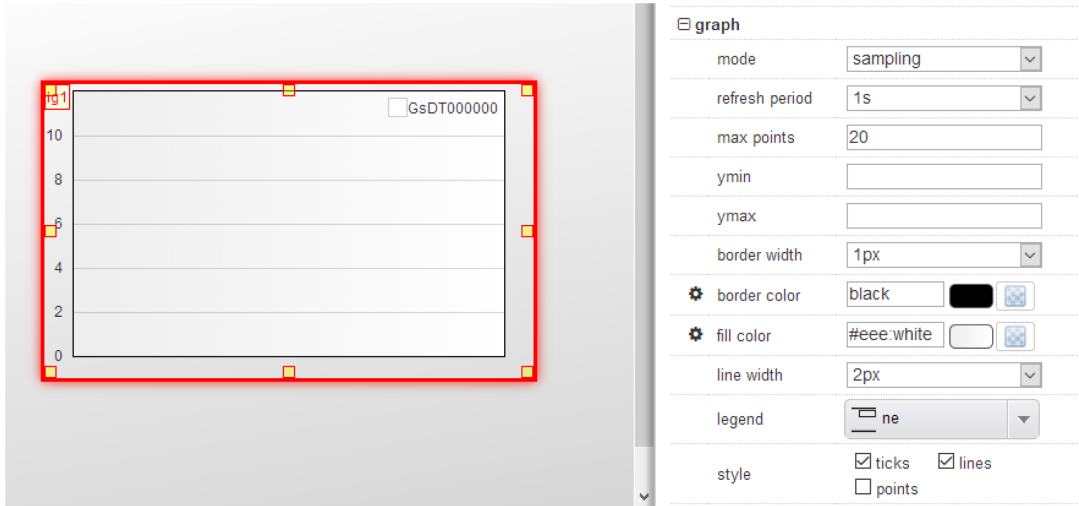
- host address: Global settings
- network protocol: Global settings
- read device: type: Global, device type: DT, No.: 0, data type: SS
- line color: rgb(255,255,255)
- read device: type: None
- line color: rgb(255,248,248)
- read device: type: None
- line color: rgb(169,204,204)
- read device: type: None
- line color: rgb(178,200,200)

Setting item	Description
<b>Device</b>	
host address	Specify the address of a reference device of a part. When unspecified, the common setting is used.
network protocol	Specify a communication protocol.
read device	Reference word device of series 1
line color	Set bar color of series 1.
read device	Reference word device of series 2
line color	Specify bar color of series 2.
read device	Reference word device of series 3
line color	Specify bar color of series 3.
read device	Reference word device of series 4
line color	Set bar color of series 4.

**6.12.2 Graph Display Setting**

The color of graphs and background can be specified in the graph setting.

## 6.12 Bar Graph Parts



Setting item	Description
mode	Set the type of the graph.
refresh period	Set the refresh period.
max points	Set the maximum number of points.
ymin	Set the minimum value of Y axis.
ymax	Set the maximum value of Y axis.
border width	Set the width of a graph border.
border color	Set the color of a graph frame.
fill color	Set the background color of the graph.
legend	Set the display position of a legend.
style	Set items displayed on the graph.

Setting item	Description
mode	Set the type of the graph.
refresh period	Set the refresh period.
max points	Set the maximum number of points.
ymin	Set the minimum value of Y axis.
ymax	Set the maximum value of Y axis.
border width	Set the width of a graph border.
border color	Set the color of a graph frame.
fill color	Set the background color of the graph.
legend	Set the display position of a legend.
style	Set items displayed on the graph.

### 6.12.3 Scale Settings



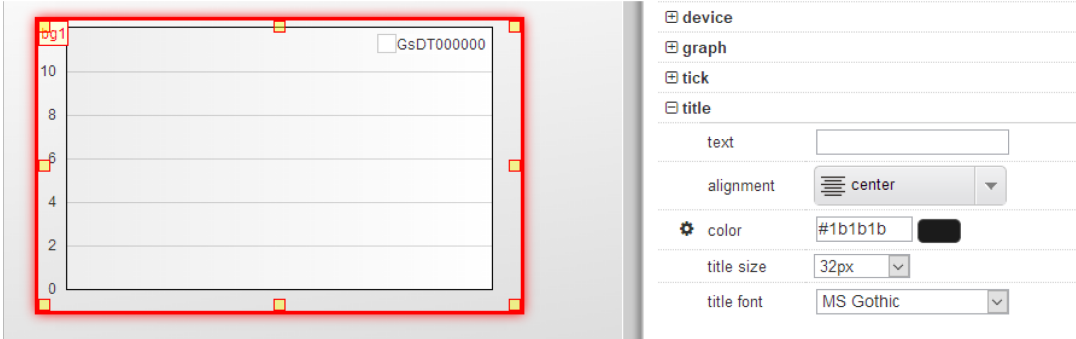
Setting	Description
interval	Set the scale interval.

Setting	Description
interval	Set the scale interval.

Setting	Description
color	Set the color of an axis label.
size	Set the size of an axis label.

**6.12.4 Title Setting**

The title of graphs can be set.  
 The title cannot be changed from the upper part of the graphs.



Setting item	Description
title	Specify the title of graphs.
alignment	Specify the display position of the characters set as the title.
color	Specify the character color of the title.
title size	Specify the character size of the title.
title font	Specify the character font used for the title.

**6.12.5 Properties of Bar Graph Parts**

■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting

## 6.12 Bar Graph Parts

---

Property	Description
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
read device	Reference word device of series 1
line color	Bar color of series 1
read device	Reference word device of series 2
line color	Bar color of series 2
read device	Reference word device of series 3
line color	Bar color of series 3
read device	Reference word device of series 4
line color	Bar color of series 4
graph	Graph settings
mode	Graph type
refresh period	refresh period
max points	Max. number of points
ymin	Minimum value of Y axis
ymax	Maximum value of Y axis
border width	Width of a graph border
border color	Color of a graph frame
fill color	Background color of a graph
legend	Display position of a legend
style	Items displayed on the graph
tick	X-axis scale settings
interval	Scale interval
color	Color of an axis label
size	Size of an axis label
title	Title setting of a graph
text	Title character string
alignment	Title arrangement
color	Title color
title size	Title size
title font	Title font

## 6.13 Extended graph parts

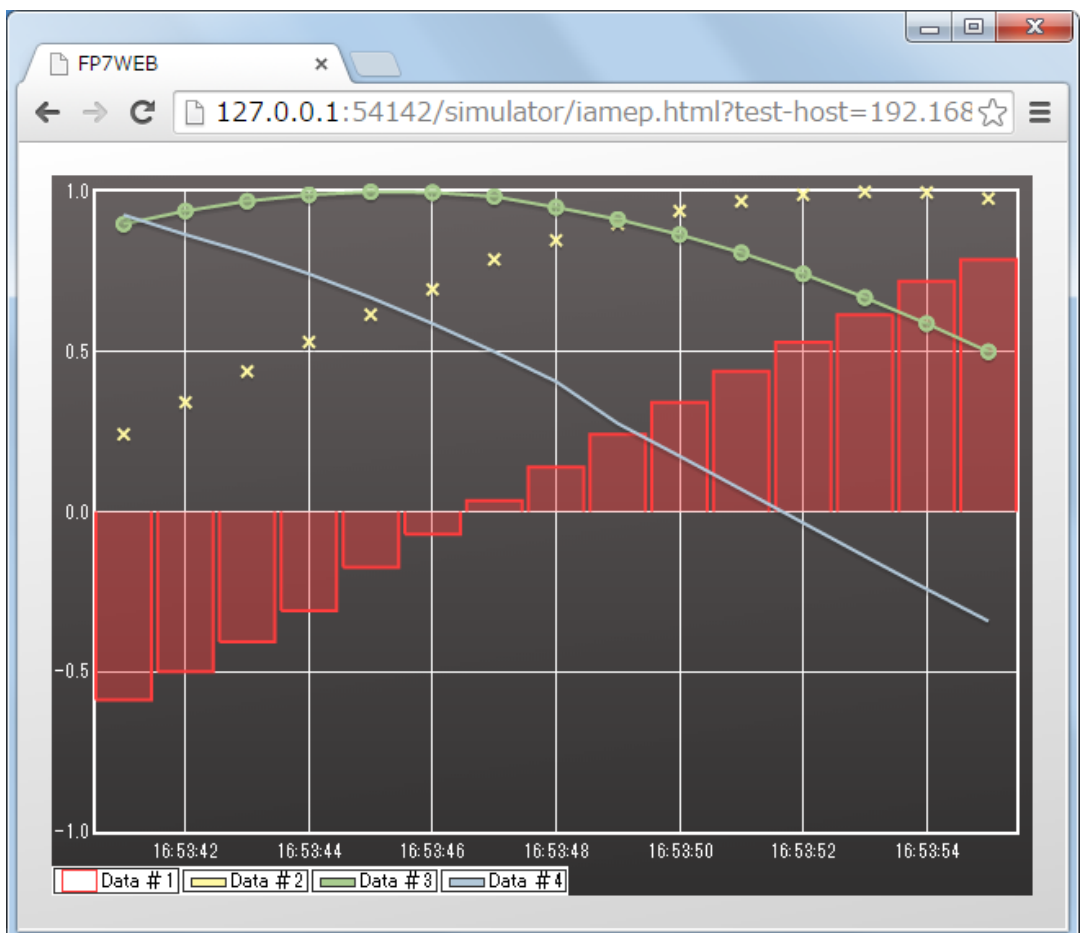
There are trend graphs and batch graphs in the extended graphs.

Both of them acquire data periodically and display graphs.

The batch graphs acquire data collectively at a specified time and displays the graphs.

### **i** Info.

- The following improvements have been made in Ver.3.1.0.
  - "x axis time unit" can be set when specifying trend graphs (refer to "6.13.7 Change of the Time Unit of X Axis for Trend Graphs").
  - The X-scale display when using array graphs can be adjusted by the "X magnification" setting only (refer to "6.13.6 Array Graph: Change of X Axis").



Overview of the functions that can be used for extended graphs

### 6.13.1 Functions Common to Trend and Array Graphs

- A maximum of 32 bar graphs can be displayed simultaneously.

## 6.13 Extended graph parts

- A maximum of 10000 points of graphs can be displayed.
  - \* It is not possible to display all of 10000 points in a graph.  
The points actually displayed are limited to the number of dots on the screen that a graph occupies.  
For displaying all 10000 points, activate the expansion control and reduce the image. The whole graph can be confirmed.
- A legend can be set. It is selectable whether to display or hide it on monitoring.
- It is selectable to use the left or right axis for the scale for each graph separately.
- Besides a linear scale, a logarithmic scale can be specified.
- By displaying the expansion control on a graph, the display of the whole graph can be reduced or expanded with the control.
- Even when the displayed screen is not in the active state, its displayed content is updated in the background.

### 6.13.2 Function Peculiar to Array Graph

- The graph display is updated not only periodically but also when a specified device bit turns ON.

### 6.13.3 Number of Displayed Points of Graph

When the number of displayed points is short, it can be increased by increasing the graph width.

To see further detailed points, use the enlargement control.

### 6.13.4 Change of Update Cycle

The update cycle of graphs can be changed by 0.1 seconds.

The update may not be performed by a specified update cycle.

In such case, graphs are updated with best effort.

#### Extended graph widget (xgraph)

##### common parameters

##### device

##### graph

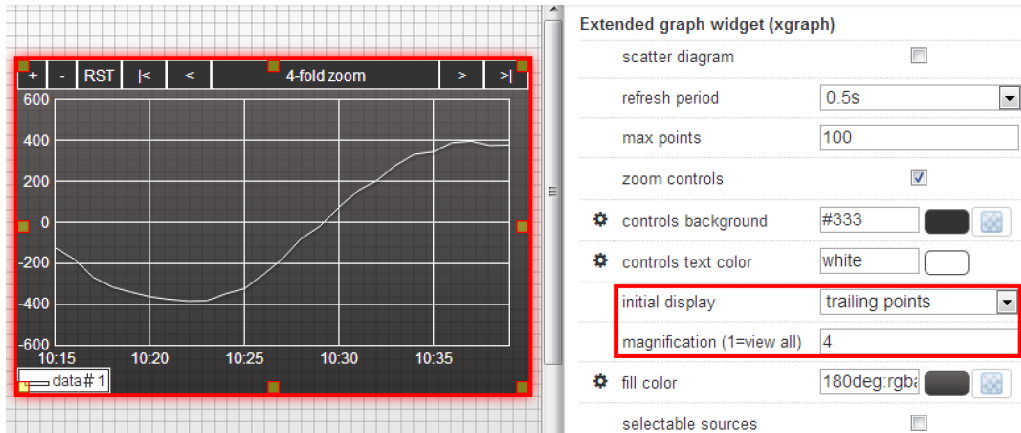
mode	<input type="text" value="sampling"/>
refresh period	<input type="text" value="0.3"/> <input type="text" value="custom (s)"/>
max points	<input type="text" value="100"/>

The update cycle can be changed in increments of 0.1 seconds by setting it to "Custom".



### 6.13.5 Change of Initial Display Position

The initial display position of a graph can be changed.

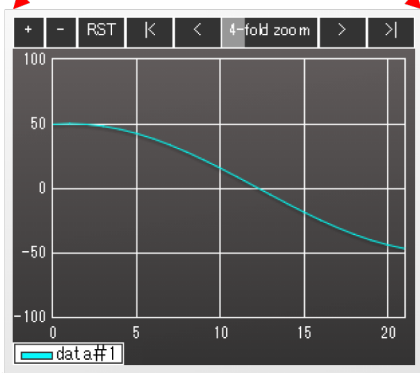
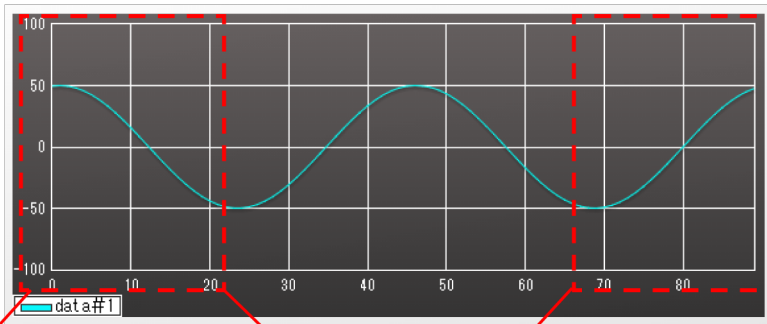


Setting	Description
initial display	The initial display position can be selected from "all points", "first points", and "trailing points". The default is "trailing points".
magnification	This item is available when the <b>initial display</b> setting is set to "first points" or "trailing points". The default value of the display magnification of graphs can be changed.

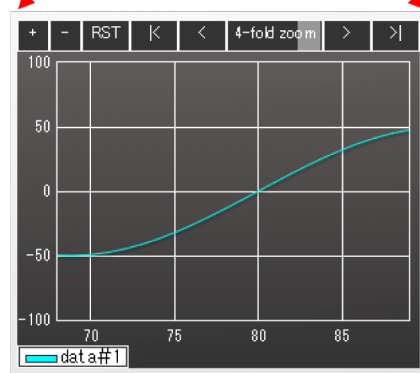
The default graph displays of each setting are shown below.

## 6.13 Extended graph parts

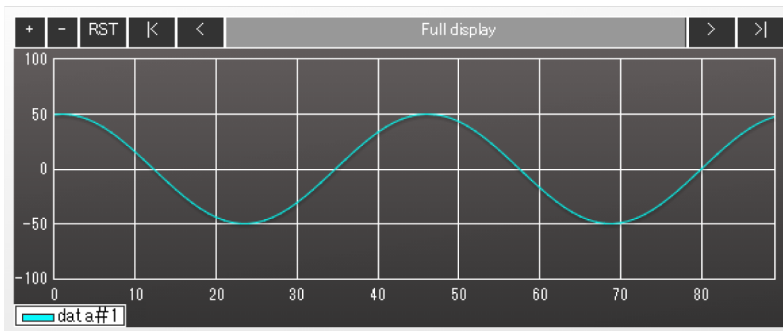
All graph data



initial display: first points  
magnification: 4



initial display: trailing points  
magnification: 4



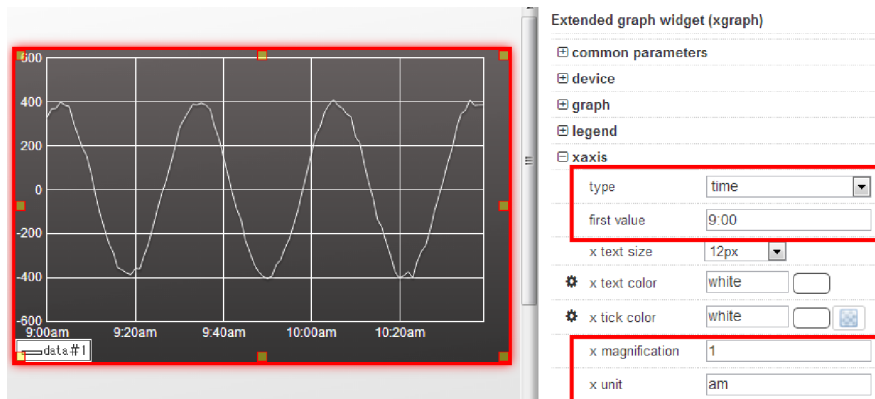
initial display: all points

Data for the number of display data is always drawn in line graphs.

Therefore, even when the number of display data is larger than the graph width, the peak value can be confirmed.

### 6.13.6 Array Graph: Change of X Axis

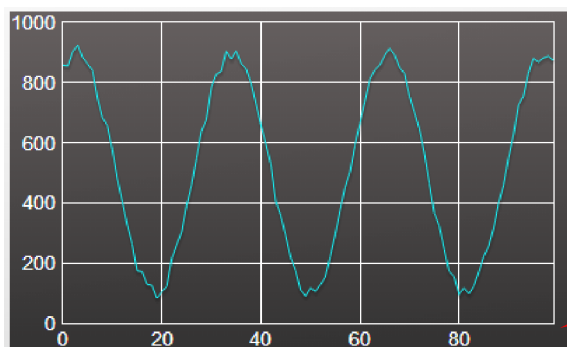
- More detailed X-axis settings can be changed when specifying array graph.



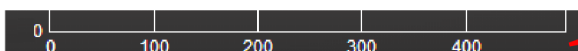
Setting	Description
type	Select the content of X-axis scale from "number" or <b>time</b> . The time can be set to "hours and minutes" or "minutes and seconds".
first value	Specify the start value of scale values displayed on the X axis.
X magnification	The display magnification of the X-axis scale can be specified. This magnification setting is for the scale display value, and therefore does not affect the number of displayed data items.
X unit	The unit of the X-axis scale can be specified.

#### Changes in Ver.3.1.0

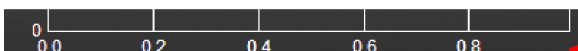
The display value of the x-axis scale could be adjusted by the following three settings: "decimals", "increment", and "x magnification". With the Ver.3.1.0, it can be adjusted only by the "x magnification". The previous setting items "decimals" and "increment" were eliminated.



No. of display data: 100  
X magnification: 1



X magnification: 5



X magnification: 0.01

## 6.13 Extended graph parts

### Note

- When using an extended graph to which "decimals" and "increment" have been set in Ver.3.0.0, the X-axis scale is recalculated regarding "decimals" as "0" and "increment" as "1" in Ver.3.1.0.

When "decimals" and "increment" have been set, reset the x magnification based on the following table.

"decimals" and "increment"

decimals	X magnification
1	0.1
2	0.01
3	0.001
4	0.0001
5	0.00001
6	0.000001

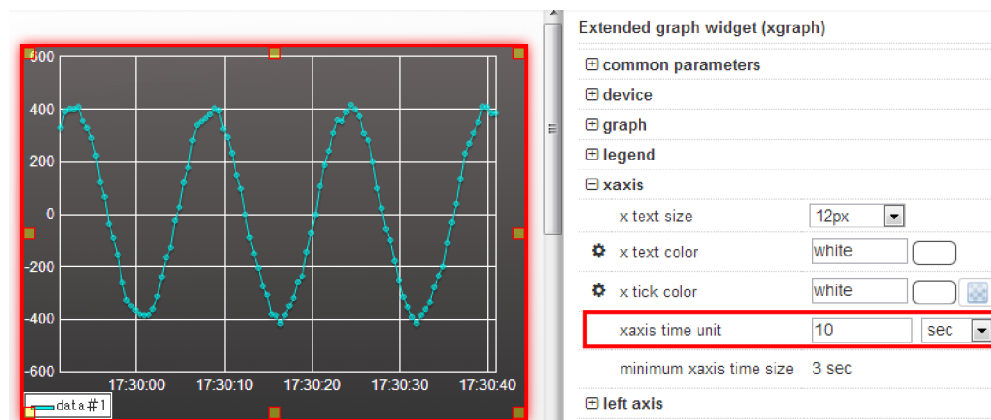
→ "X magnification"

increment	X magnification
2	2
5	5
10	10
100	100
1000	1000

### 6.13.7 Change of the Time Unit of X Axis for Trend Graphs

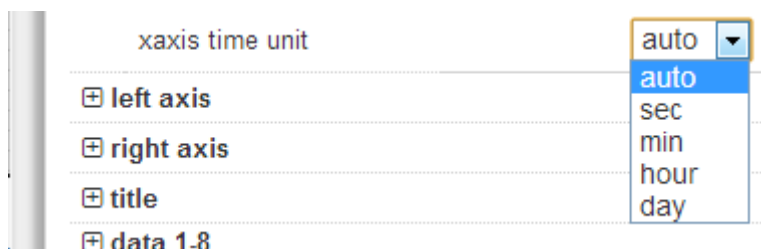
"x axis time unit" can be specified and fixed by setting the time unit of X axis.

The following figure shows an example when setting "x axis time unit" to 10 seconds.



#### Setting procedure of "x axis time unit"

- Click the [auto ▼] button, and select an arbitrary time unit.



2. The input field is displayed on the left of "x axis time unit". The default value is for setting the scale width to be 50 pixels. Input a value larger than "minimum x axis time size". "minimum x axis time size" is a guide for the time to make the scale width be 25 pixels.

axis time unit  sec

minimum x axis time size 3 sec

left axis

When setting the x-axis time unit to be 10 seconds, input "10".

- **Precaution when setting the x-axis time unit**

The settable lower limit value for the x-axis time unit is calculated by the following formula.

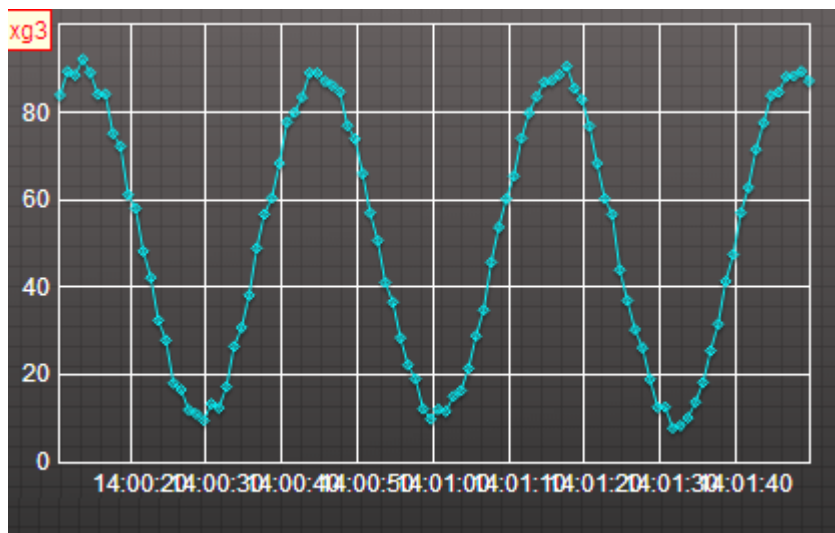
Whole time of a graph  
(Time from end to end) = "refresh period" x "max points"

$$\text{Settable lower limit value for x-axis time unit (sec)} = 25\text{px} \times \frac{\text{Whole time of a graph (sec)}}{\text{Graph width (px)}}$$

As a result of changing the setting items in the above formula "refresh period", "max points" and the graph "width", if the scale width of the x-axis time unit becomes smaller than 25 pixels, it is automatically adjusted to the settable lower limit value for the x-axis time unit.

- **Adjusting procedure of "x axis time unit"**

**For expanding the scale width or when the x-axis scales overlap**

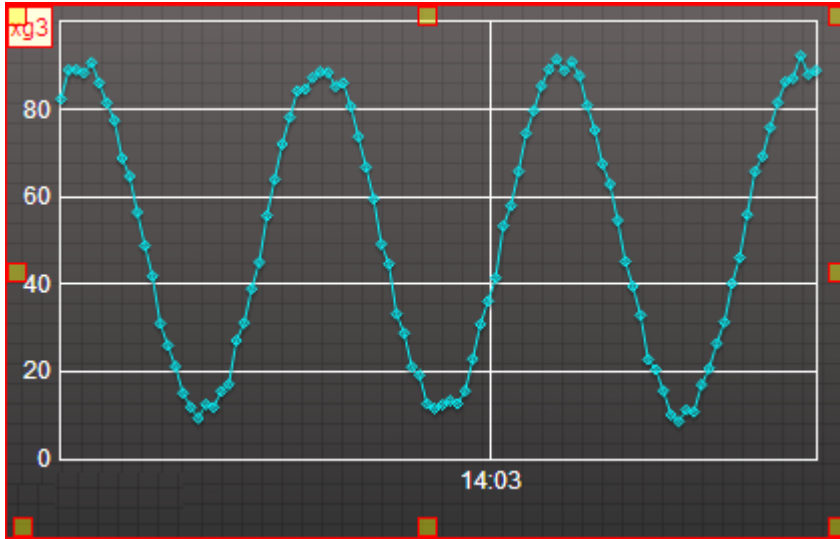


Use the following procedure for the adjustment.

- Expand the "width" of the common properties. (Expand the width of graph parts.)
- Shorten the "refresh period" of graph properties.
- Reduce the "max points" of graph properties.
- Increase the "x axis time unit" of x-axis properties.
- Reduce the "x text size" of the x-axis properties.

## 6.13 Extended graph parts

### For reducing the scale width



Use the following procedure for the adjustment.

- Reduce the "width" of the common properties. (Reduce the width of graph parts.)
- Increase the "refresh period" of graph properties.
- Increase the "max points" of graph properties.
- Reduce the "x axis time unit" of the x-axis properties.

### 6.13.8 Change of Control Bar

The background color and the character color of the control bar can be changed.

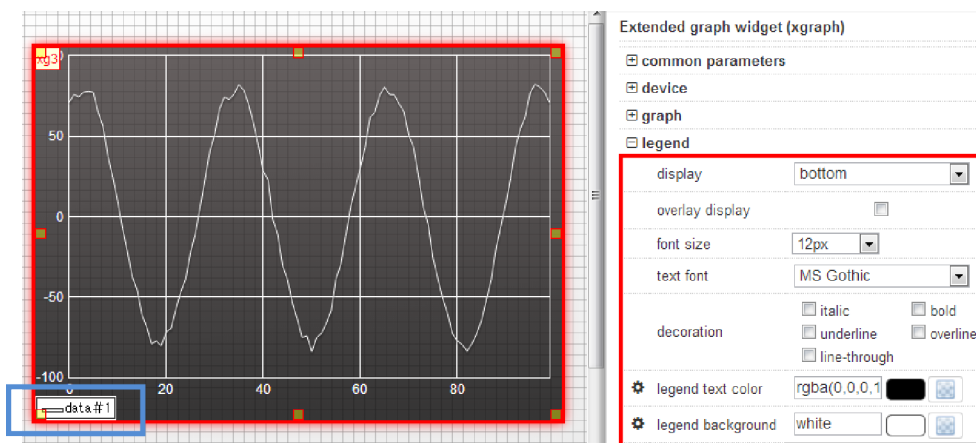
Extended graph widget (xgraph)

- common parameters
- device
- graph
  - mode: array
  - scatter diagram:
  - refresh period: 0.3s custom (s)
  - max points: 100
  - zoom controls:
  - controls background: rgba(12,232,255,1)
  - controls text color: rgba(9,9,9,1)
  - initial display: trailing points

### 6.13.9 Change of Legend

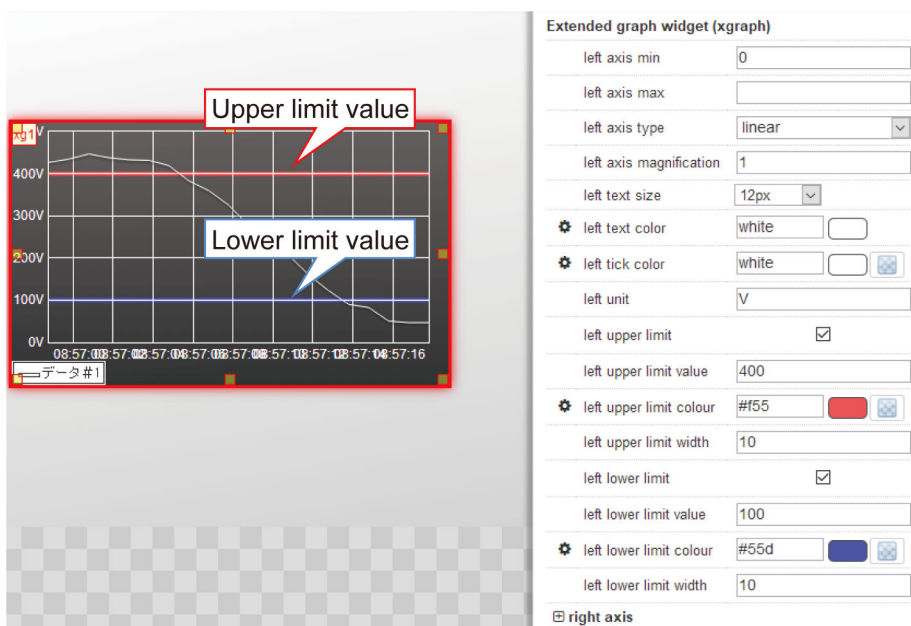
- The background color and the format of legends can be changed.

- The setting whether to display or hide legends can be changed.  
When displaying legends, the display position can be set.



### 6.13.10 Change of Y Axis

- The data magnification and unit of the Y axis (Left/Right) can be specified as well as the X axis.
- Also, the display of the upper and lower limit values for graph data can be set.



Setting	Description
(Left/Right) axis magnification	The display magnification of the Y-axis scale can be specified.
(Left/Right) text size	Specify the character size of the Y-axis scale.

## 6.13 Extended graph parts

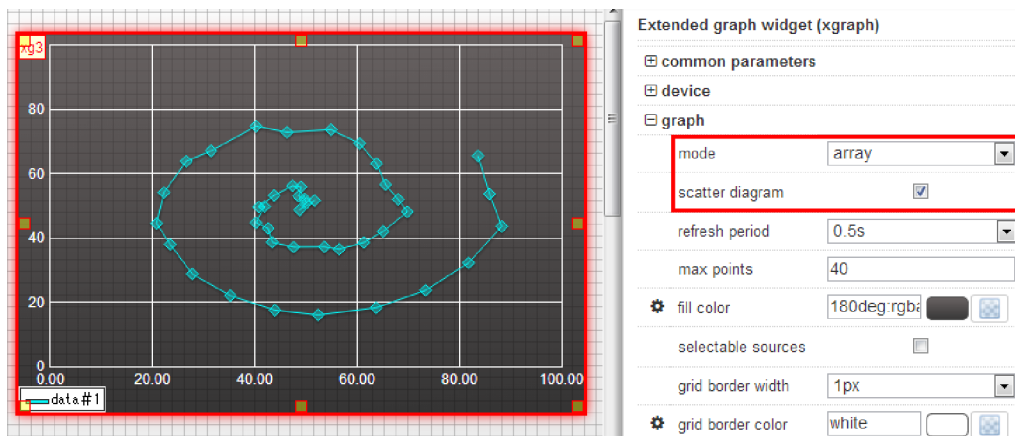
Setting	Description
(Left/Right) text color	Specify the character color of the Y-axis scale.
(Left/Right) tick color	Specify the line color of the Y-axis scale.
(Left/Right) unit	The unit of the Y-axis scale can be specified.
(Left/Right) upper limit	Check this box for displaying the upper limit value.
(Left/Right) upper limit value	Set the scale value for displaying the upper limit value.
(Left/Right) upper limit color	Set the color of the upper limit display.
(Left/Right) upper limit width	Set the thickness of the upper limit display. The thickness varies according to the specified value and the Y-axis scale.
(Left/Right) lower limit	Check this box for displaying the lower limit value.
(Left/Right) lower limit value	Set the scale value for displaying the lower limit value.
(Left/Right) lower limit color	Set the color of the lower limit display.
(Left/Right) lower limit width	Set the thickness of the lower limit display. The thickness varies according to the specified value and the Y-axis scale.

### 6.13.11 Display of Scatter Diagram

On array graphs, the display can be switched to the scatter diagram by enabling the "scatter diagram" setting.

By showing the display as a scatter diagram, the distribution and correlation of the second item (vertical and horizontal axes) can be grasped.

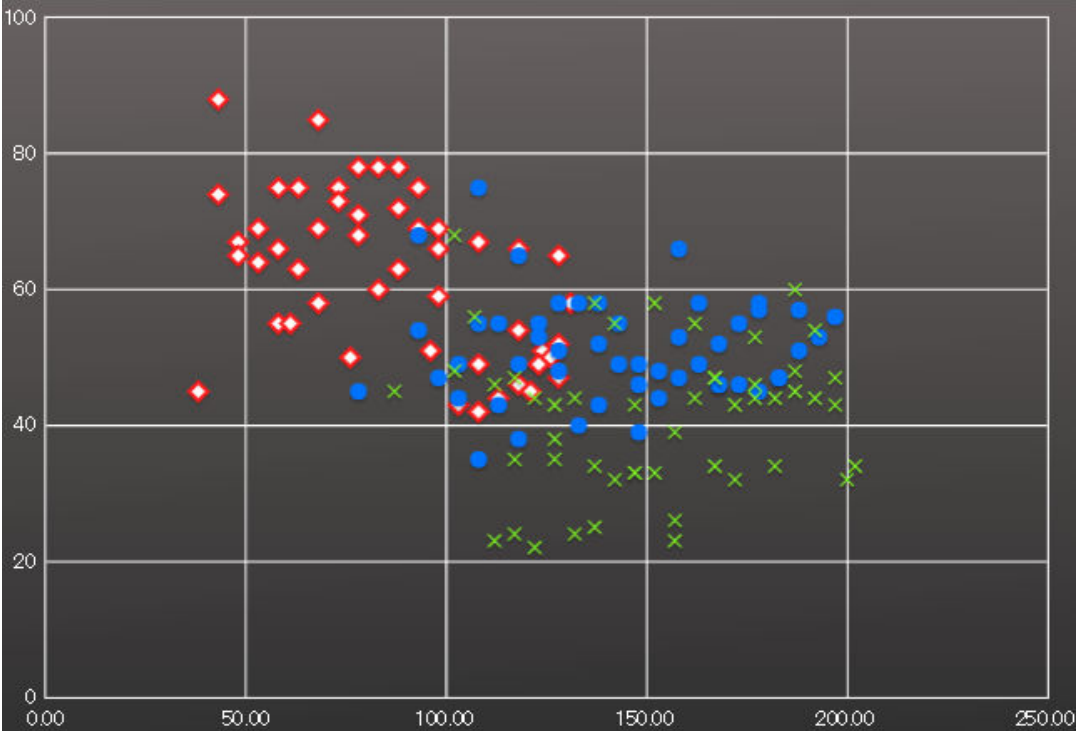
For displaying scatter diagrams, it is necessary to check the box of the scatter diagram display after specifying the operation mode "array".



The image shows a graph widget with a scatter plot and a configuration panel. The graph displays a series of data points connected by a light blue line, forming a complex, somewhat circular shape. The x-axis ranges from 0.00 to 100.00, and the y-axis ranges from 0 to 80. The data points are represented by small blue squares. The configuration panel on the right is titled "Extended graph widget (xgraph)" and includes several settings. The "mode" is set to "array", and the "scatter diagram" checkbox is checked. Other settings include "refresh period" (0.5s), "max points" (40), "fill color" (180deg.rgb), "selectable sources" (unchecked), "grid border width" (1px), and "grid border color" (white).



**Example of the actual display of a scatter diagram**



The reference devices corresponding to the coordinates of scatter diagrams are as follows.  
 Example) When; Monitor device = DT10, Data type = SS (1 word), Number of displayed data =100, the combination of the coordinates of scatter diagram is as follows.

DT10 (Starting device)	1	}	The XY coordinates of scatter diagram are displayed by the following combinations. X-coordinate device: Starting device + (2 x No. of words x n) Y-coordinate device: Starting device + (2 x No. of words x n) + 1
	10		
	2		
	20		
	3		
	30		
	~ Omitted ~		
	100		
DT209 (Last device)	1000		

When data is like the above figure, the XY coordinates of the scatter diagram are (1, 10), (2, 20), (3, 30) ... (100, 1000).

**6.13.12 Properties of Extended Graph Parts**

## 6.13 Extended graph parts

### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
graph	Graph settings
mode	Graph type
refresh period	refresh period
max points	Max. number of points
Zoom controls	Display of the control for magnifying/reducing graphs
Magnification (1=all view)	Display magnification of an initial display position
fill color	Background color of a graph
selectable sources	This is used to set to enable/disable the switch between displaying and hiding graphs.
grid border width	Width of a graph border
grid border color	Color of a graph frame
grid fill color	Background color of a graph
legend	Legend settings
visibility	Display position of a legend
overlay display	Unchecked: Legends are always displayed, Checked: Legends are displayed by clicking a graph.
font size	Character size of a legend
font	Font of a legend
decoration	Modification of a legend
legend text color	Character color of a legend
legend background	Background color of a legend
xaxis	Horizontal axis settings of a graph
* This can be specified only when array graph has been set	
type	Select Value or Time for the display method of scales.
first value	Start value of the scale
X magnification	Conversion magnification of scale values

Property	Description
x text size	Character size
x text color	Character color
x tick color	Scale line color
xaxis time unit	x-axis time unit
yaxis	Vertical axis settings of a graph
left axis min	Minimum value of the left axis (When this is blank, it is automatically set.)
left axis max	Maximum value of the left axis (When this is blank, it is automatically set.)
left axis type	Graph interval setting (linear / log10 / log n)
left axis magnification	Left axis conversion magnification
left text size	Character size of the left axis
left text color	Character color of the left axis
left tick color	Scale line color of the left axis
left unit	Unit of the left axis
left upper limit value display	Checked: The upper limit value of the left axis is displayed on a graph.
left upper limit value	The upper limit value of the left axis
left upper limit color	Color of the upper limit value of the left axis
left upper limit width	Width of the upper limit line of the left axis
left lower limit value display	Checked: The lower limit value of the left axis is displayed on a graph.
left lower limit value	The lower limit value of the left axis
left lower limit color	Color of the lower limit value of the left axis
left lower limit width	Width of the lower limit line of the left axis
right axis	Vertical axis settings of a graph
right axis min	Minimum value of the right axis (When this is blank, it is automatically set.)
right axis max	Maximum value of the right axis (When this is blank, it is automatically set.)
right axis type	Graph interval setting (linear / log10 / log n)
right axis magnification	Right axis conversion magnification
right text size	Character size of the right axis
right text color	Character color of the right axis
right tick color	Scale line color of the right axis
right unit	Unit of the right axis
right upper limit value display	Checked: The upper limit value of the right axis is displayed on a graph.
right upper limit value	The upper limit value of the right axis
right upper limit color	Color of the upper limit value of the right axis

## 6.13 Extended graph parts

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Property	Description
right upper limit width	Width of the upper limit line of the right axis
right lower limit value display	Checked: The lower limit value of the right axis is displayed on a graph.
right lower limit value	The lower limit value of the right axis
right lower limit color	Color of the lower limit value of the right axis
right lower limit width	Width of the lower limit line of the right axis
title	Title setting of a graph
text	Title character string
alignment	Title arrangement
color	Title color
title size	Title size
title font	Title font
decoration	Text style for the title
Data source #1 to 8 Data source #9 to 16 Data source #17 to 24 Data source #25 to 32	Data settings for a graph
read device	Monitored word device
label	Name displayed with a legend
initial display	Switches between displaying and hiding data.
interpolation	Enables/disables the interpolation display of data.
yaxis	Selection of data vertical axis (left/right)
display mode	Display type of data (line / dot / bar / line+symbol)
line width	Line width of data
line color	Line color of data
fill color	Point or bar color of data
symbol	Point shape of data
symbol size	Point size of data

## 6.14 Level Graph

Using level graph parts enables the graph displays by group.

Up to three graphs can be displayed per one group, and up to 16 groups can be displayed.

When a graph is not displayed within a part, a scroll part appears automatically.

### **i** Info.

- Level graph parts are available for KW2M-X regardless of the Software Control Web Creator version.
- They are available for FP7 / ELC500 with the Software Control Web Creator Ver.3.0.0 or later.
- They are not available for FP7 / ELC500 with the Software Control Web Creator version earlier than Ver.3.0.0.

### 6.14.1 Operation of Level Graphs

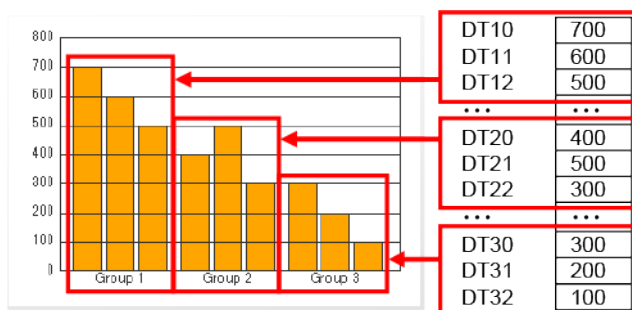
Consecutive data is acquired from the starting device for each group and the graphs are displayed.

Example) When displaying three graphs for one group

Starting device of group 1: DT10 (US type)

Starting device of group 2: DT20 (US type)

Starting device of group 3: DT30 (US type)

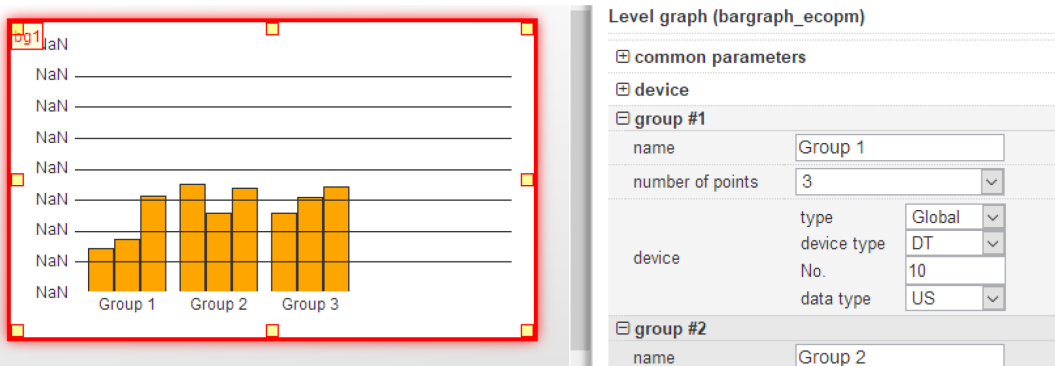


### 6.14.2 Graph Setting

The number of groups to be displayed as graphs can be set.

The number of displayed graphs in each group can be individually set in each group setting.

## 6.14 Level Graph

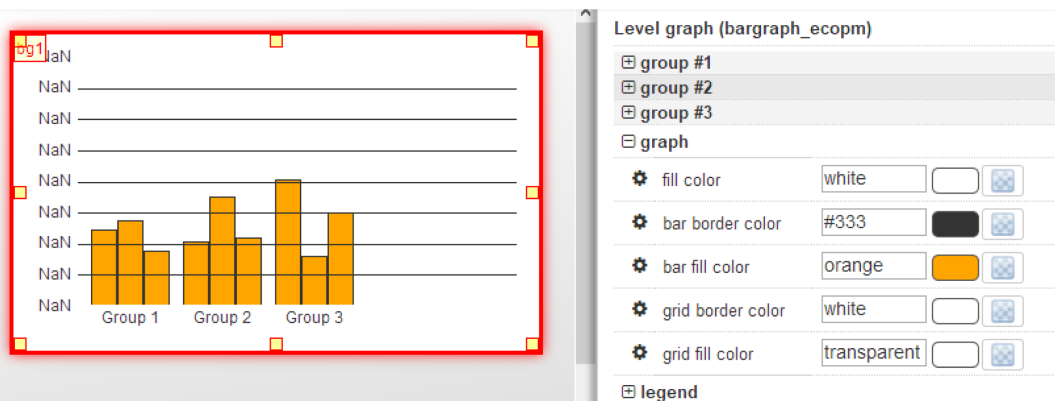


The screenshot shows a level graph with three groups (Group 1, Group 2, Group 3) and a configuration panel on the right. The graph displays data points for each group, with the y-axis labeled 'NaN'. The configuration panel includes settings for common parameters, device, and group #1 and #2.

Setting item	Description
<b>Device</b>	
host address	Specify the address of a reference device of a part. When unspecified, the common setting is used.
network protocol	Specify a communication protocol.
Number of groups	Specify the number of groups displayed as graphs. Default value: 3
<b>Group 1 to 16</b>	
name	Specify the name of each group. The specified name is displayed on the horizontal axis of graphs.
number of points	Specify the number of graphs displayed in each group. Acquires the points of the specified number successively from the specified device.
device	Specify a starting device monitored continuously.

### 6.14.3 Graph Display Setting

The color of graphs and background can be specified in the graph setting.

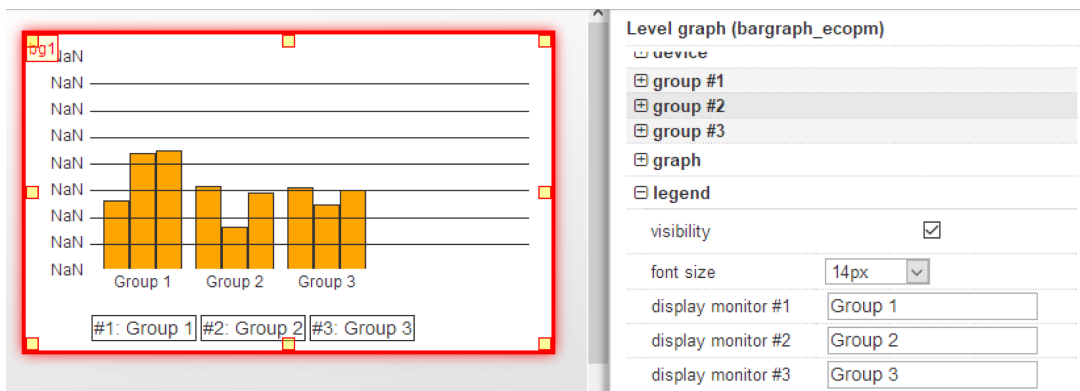


The screenshot shows the same level graph as above, but with a configuration panel on the right that includes color settings for the graph. The graph displays data points for each group, with the y-axis labeled 'NaN'. The configuration panel includes settings for group #1, #2, and #3, and a 'graph' section with color options.

Setting item	Description
fill color	Specify the background color for the whole level graph.

Setting item	Description
bar border color	Specify the frame color of bar graphs in level graphs.
bar fill color	Specify the color of bar graphs in level graphs.
grid border color	Specify the frame color of level graphs.
grid fill color	Specify the background color in the graphs of level graphs.

### 6.14.4 Legend Setting



The screenshot shows a level graph titled "Level graph (bargraph\_ecopm)". The graph displays three groups of bars: Group 1, Group 2, and Group 3. The y-axis is labeled with "NaN". The legend panel on the right includes the following settings:

- visibility:
- font size: 14px
- display monitor #1: Group 1
- display monitor #2: Group 2
- display monitor #3: Group 3

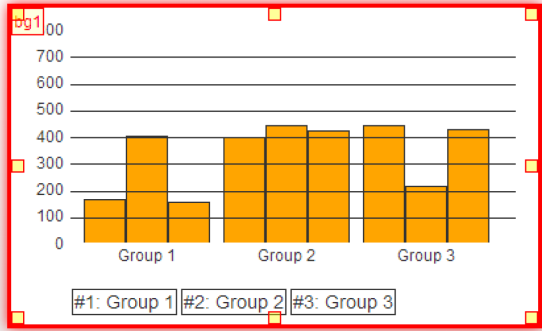
Setting item	Description
visibility	Specify whether legends are displayed or not. When checked, the contents specified in the display monitor #1 to #3 are displayed on the lower part of graphs as legends.
font size	Specify the character size of legends.
display monitor #1	Specify the character string displayed as legends.
display monitor #2	Specify the character string displayed as legends.
display monitor #3	Specify the character string displayed as legends.

### 6.14.5 Display Axis Setting

Specify the items such as the color of level graphs.

When graphs are not displayed within the display frame according to the setting, a scroll bar appears automatically.

## 6.14 Level Graph



**Level graph (bargraph\_ecomp)**

- graph**
- legend**
- xaxis**
  - x text size: 12px
  - x text color: #333
  - bar width: 32px
  - bar interval: 0
  - group interval: 10px
- yaxis**
  - left axis min: 0
  - left axis max: 800
  - left axis type: linear
  - number of decimals: 0
  - left text size: 12px
  - left text color: #333
  - left tick color: #333

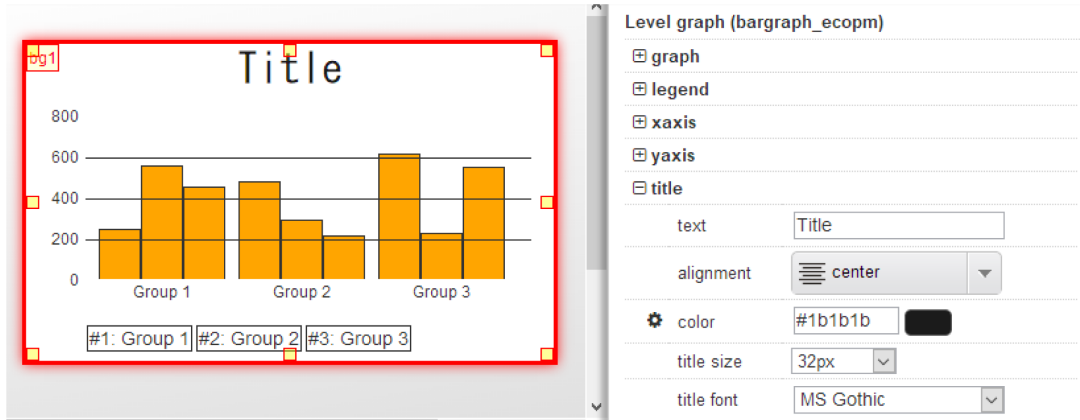
Setting item	Description
<b>xaxis</b>	
x text size	Specify the size of the character strings displayed on the horizontal axis. This setting is used for the character size of the name specified for group n.
x text color	Specify the character color displayed on the horizontal axis.
bar width	Specify the width of a bar graph.
bar interval	Specify the display interval of graphs within a group.
group interval	Specify the display interval of graphs for each group.
<b>yaxis</b>	
left axis min	Specify the minimum value of the vertical axis. When unspecified, the minimum value within display data is displayed as the minimum value of graphs.
left axis max	Specify the maximum value of the vertical axis. When unspecified, the maximum value within display data is displayed as the maximum value of graphs.
left axis type	Specify the graph interval setting from linear, log 10 or log n.
number of decimals	Displays the value calculated by multiplying an acquired value from a device by $10^{-n}$ .
left text size	Specify the character size of the vertical axis.
left text color	Specify the character color of the vertical axis.
left tick color	Specify the scale color of the vertical axis.



### 6.14.6 Title Setting

The title of graphs can be set.

The title cannot be changed from the upper part of the graphs.



The screenshot shows a level graph titled "Level graph (bargraph\_ecopm)". The graph displays three groups of bars (Group 1, Group 2, Group 3) with a y-axis ranging from 0 to 800. The title "Title" is centered at the top. The settings panel on the right includes the following options:

- graph
- legend
- xaxis
- yaxis
- title
  - text: Title
  - alignment: center
  - color: #1b1b1b
  - title size: 32px
  - title font: MS Gothic

Setting item	Description
text	Specify the title of graphs.
alignment	Specify the display position of the characters set as the title.
color	Specify the character color of the title.
title size	Specify the character size of the title.
title font	Specify the character font used for the title.

### 6.14.7 Properties of Level Graphs

#### ■ Properties

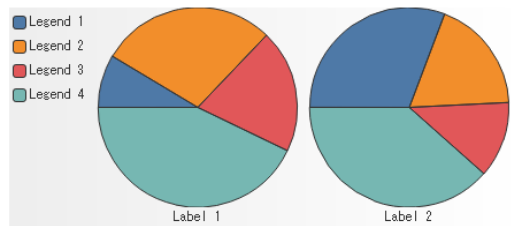
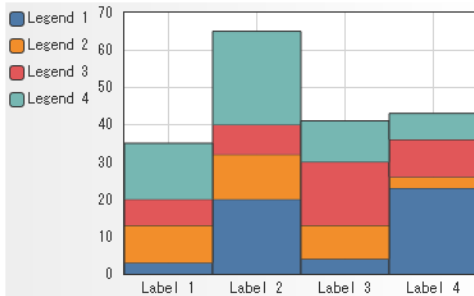
Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
Number of groups	Setting for the number of groups in a graph.

## 6.14 Level Graph

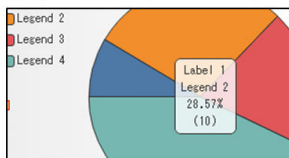
Property	Description
group #1 to #3	Individual setting for each group.
name	Graph name displayed on the horizontal axis.
number of points	Displays the data for the number of monitoring points in a group.
device	Starting device of continuous monitoring.
graph	Display setting of a graph
fill color	Background color of level graph parts.
bar border color	Frame color of bar graphs.
bar fill color	Filling color of bar graphs.
grid border color	Frame color of displaying graphs.
grid fill color	Background color within the frame of displaying graphs.
legend	Legend settings
visibility	Without check: Hide legends, Checked: Always display legends.
font size	Character size of a legend
display monitor #1	Character string of legend #1.
display monitor #2	Character string of legend #2.
display monitor #3	Character string of legend #3.
xaxis	Horizontal axis settings of a graph
x text size	String size displayed on the horizontal axis.
x text color	String color displayed on the horizontal axis.
bar width	Width of a bar graph.
bar interval	Graph display interval in a group.
group interval	Graph display interval between groups.
yaxis	Vertical axis settings of a graph
left axis min	Minimum value of the left axis (When this is blank, it is automatically set.)
left axis max	Maximum value of the left axis (When this is blank, it is automatically set.)
left axis type	Graph interval setting (linear / log10 / log n)
number of decimals	
left text size	Character size of the left axis
left text color	Character color of the left axis
left tick color	Scale line color of the left axis
title	Title setting of a graph
text	Title character string
alignment	Title arrangement
color	Title color
title size	Title size
title font	Title font

## 6.15 Integration Graphs

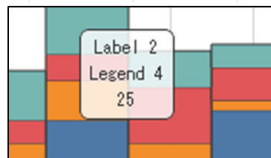
Under "Integration graph," a bar graph or pie chart can be visually presented.



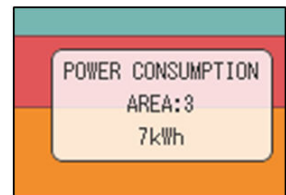
Click the integration graph on the browser screen to display the details.



Example: pie chart



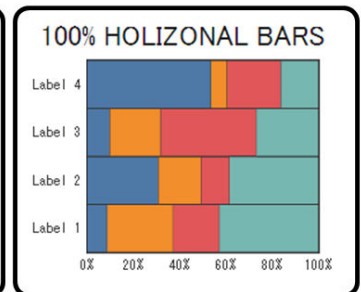
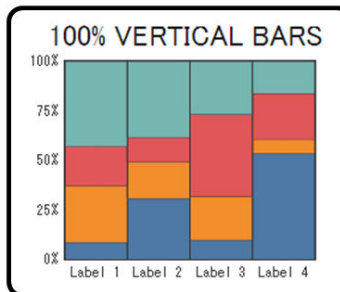
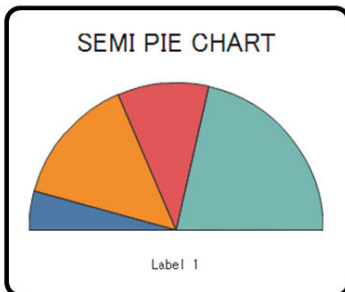
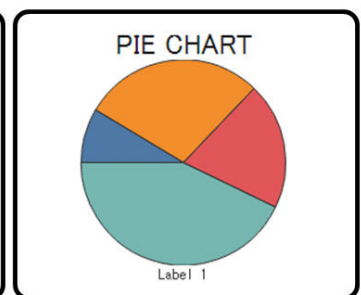
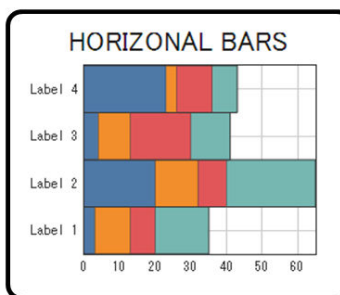
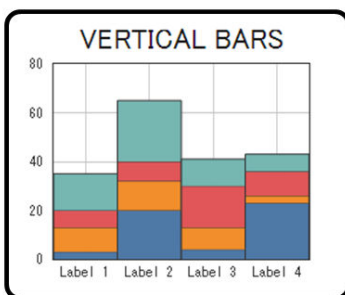
Example: vertical bars



Example: setting

### 6.15.1 Setting Method

Under "Graph shape" in the graph tab, select a representative design for a new "Integration graph" part.

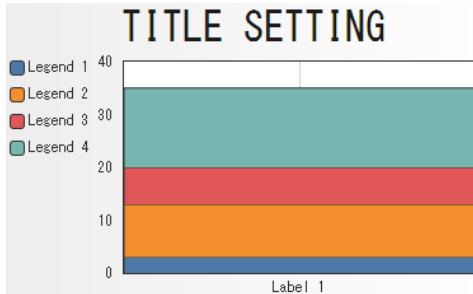


## 6.15 Integration Graphs

### 6.15.2 Title Setting

The title of the integration graph can be set.

The title set here is also applied to the label and legend under "Graph: detailed setting (devices/labels/elements)."



title

text

alignment

color

title size

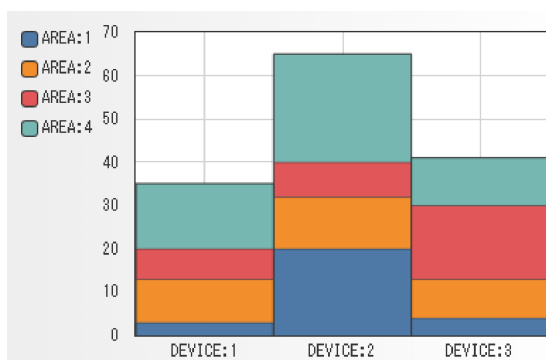
title font

decoration  italic  bold  
 underline  overline  
 line-through

Setting item	Description
text	The title of the integration graph can be specified.
alignment	Specify the alignment of the title.
color	Specify the text color of the title.
title size	Specify the text size of the title.
title font	Specify the text font used for the title.
decoration	Specify the text style used for the title.

### 6.15.3 Graph Display Setting

Set the display mode, grid fill color, etc. for the integration graph.



**graph**

graph type vertical bars

refresh period 1s

read trigger type Global

device type R

No. 0

graph count 1

device count 4

display mode default

Detail settings Edit  
(devices, labels, legend)

fill color #eee:white

grid border width 1px

grid border color #333

grid fill color #fff

Setting item	Description
graph type	The shape of the integration graph can be selected from "Column graph", "Bar graph cumulation", "Pie chart", "Half pie chart", "Column graph 100%", and "Bar graph 100%".
refresh period	The refresh cycle for display content can be selected from below. Best effort / 0.5s / 1s / 2s / 5s / 10s / 1 min
read trigger	The timing for data acquisition can be determined by the specified device.
graph count	Specify the number of displayed graphs. Max. 32
device count	Specify the number of device to register to graphs. Max. 8 Up to $8 \times 32 = 256$ devices can be registered.
display mode	The display mode for the integration graph can be selected from "Registration order", "Ascending order", and "Descending order". When the displayed graphs is set to 1, this item is indicated for setting. The default value is "Registration order".
detail settings	Press [Edit] button to set devices, labels and elements to be indicated on the integration graph.
fill color	Specify the grid fill color for the entire integration graph.
grid border width	Specify the grid border thickness inside the integration graph.
grid border color	Specify the grid border color for the integration graph.
grid fill color	Specify the grid fill color inside the integration graph.

### 6.15.4 How to Perform Detailed Setting (devices / labels / elements)

## 6.15 Integration Graphs

display mode | default ▾

---

Detail settings **Edit**  
(devices, labels, legend)

---

⚙ fill color #eee:white

Press the [Edit] button in "Detail settings (devices, labels, legend)" to view the setting screen as below.

The setting screen varies by the type of integration graph.

### Integration Graph Details

(device, label, legend)

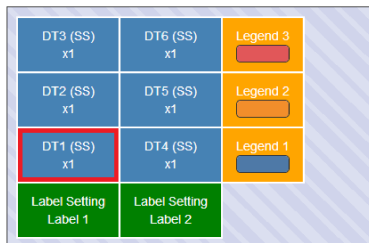
DT8 (SS) x1	DT16 (SS) x1	DT24 (SS) x1	DT32 (SS) x1	DT256 (SS) x1	Legend 8 <input type="text"/>
DT7 (SS) x1	DT15 (SS) x1	DT23 (SS) x1	DT31 (SS) x1	DT255 (SS) x1	Legend 7 <input type="text"/>
DT2 (SS) x1	DT10 (SS) x1	DT18 (SS) x1	DT26 (SS) x1	DT250 (SS) x1	Legend 2 <input type="text"/>
DT1 (SS) x1	DT9 (SS) x1	DT17 (SS) x1	DT25 (SS) x1	DT249 (SS) x1	Legend 1 <input type="text"/>
Label Setting Label 1	Label Setting Label 2	Label Setting Label 3	Label Setting Label 4	Label Setting Label 32	

Column graph / (semi) pie chart; maximum display (32 displayed graphs, 8 registered devices)  
Click each setting item to display the setting screen as below.

#### 6.15.5 Device Settings

## Integration Graph Details

(device, label, legend)



## Device Setting

	type	Global
Data device	device type	DT
	No.	1
	data type	SS
Data multiplier	1	

Apply

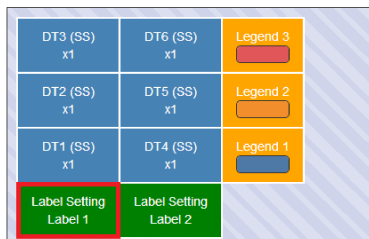
Cancel

Setting item	Description
Data device	Type of monitor device, model of device, number, and data type can be specified.
Data multiplier	The display magnification on the axis scale of the integration graph can be specified. This magnification setting is for the scale display value, and therefore does not affect the number of displayed data items.

## 6.15.6 Label Settings

## Integration Graph Details

(device, label, legend)



## Label Setting

Label text	Label 1
<div style="display: flex; justify-content: space-around;"> <span>Apply</span> <span>Cancel</span> </div>	

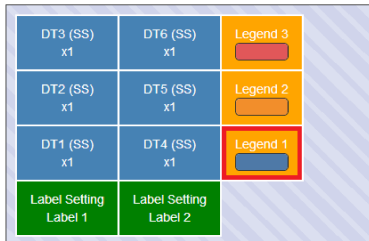
Setting item	Description
Label text	Specify the label name for the integration graph. When left blank, the selected label can be hidden.

## 6.15.7 Element Settings

## 6.15 Integration Graphs

### Integration Graph Details

(device, label, legend)



### Legend Setting

Legend text

Legend color

Apply

Cancel

Setting item	Description
Legend text	Specify the element name for the integration graph. When left blank, the selected element can be hidden.
Legend color	Specify the element color.

### 6.15.8 Setting Axes

Set the display color, etc. for the integration graph.

value axis

min value

max value

magnification

text font

text size

text color

divisions

tick color

unit

Setting item	Description
min value	Specify the min value for the axis. (Only valid when "Column / Bar graph" is selected)
max value	Specify the max value for the axis. (Only valid when "Column / Bar graph" is selected)
magnification	Specify the magnification for the axis. (Only valid when "Column / Bar graph" is selected)
text font	Specify the font for strings to be indicated on the axes.
text size	Specify the size for strings to be indicated on the axes.
text color	Specify the text color to be indicated on the axes.



Setting item	Description
divisions	Specify the number of divisions of the scale. It can be selected "Hide", "Auto-select", " " and "2 to 23". For selection from "2 to 23", the axis scale is indicated in accordance with the number of divisions, only when both the min and max values are specified. If either or both of the min and max values have yet to be specified, "Auto-select" supersedes the selection of "2 to 23."
tick color	Specify the axis tick color.
unit	Specify the axis unit.

### 6.15.9 Properties of Integration Graphs

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
title	
text	Title character string
alignment	Title arrangement
color	Title color
title size	Title size
title font	Title font
decoration	Text style for the title
graph	Graph settings
graph type	Integration graph shape
refresh period	A refresh cycle for display content
read trigger	The specified device for determining the timing for data acquisition
graph count	Number of displayed graphs
device count	Number of devices to be registered to graphs
display mode	display mode for the integration graph
detail settings	Set devices, labels and elements to be indicated on the integration graph.
fill color	Background color of a graph
grid border width	Width of a graph border

## 6.15 Integration Graphs

---

Property	Description
grid border color	Color of a graph frame
grid fill color	Background color of a graph
axes	Axis settings
min value	min value for the axis
max value	max value for the axis
magnification	magnification for the axis
text font	text font for axes
text size	text size of axes
text color	text color for axes
divisions	Number of divisions of the scale
tick color	Axis tick color
unit	Axis unit
label axis	Label axis settings
text font	text font for label axis
x text size	x text size for label axis
x text color	x text color for label axis
x tick color	x tick color for label axis
legend	Legend settings
visibility	Display position of a legend
font size	Character size of a legend
Text font	Font of a legend
decoration	Modification of a legend
legend text color	Character color of a legend
details display	Details display settings
font size	Text size for details display
text font	Text font for details display
decoration	Text decoration for details display
text color	Text color for details display
fill color	Background color for details display
border width	Border width for details display
border color	Border color for details display

## 6.16 SD Card Logging Graph Parts

This function reads data from the logging file saved in the SD card inside FP7, and displays a graph on the web browser.

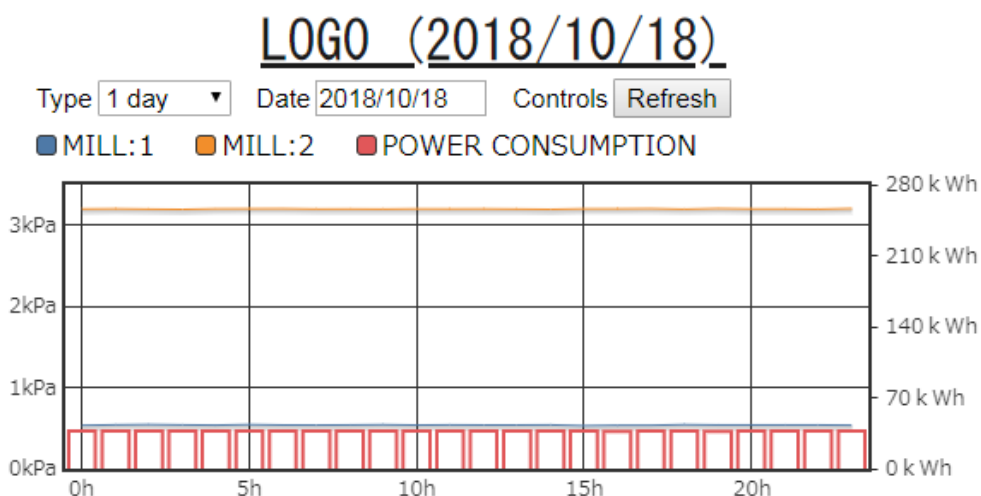
### ■ Target model

Only the FP7 CPU unit with the Ethernet function (firmware Ver.4.47 or later)

The SD card logging graph parts can only be displayed on the web.

### 6.16.1 Operation of SD Card Logging Graph

1. Specify year, month, date and hour on the parts browser.
2. Press the [Refresh] button to read the data of the specified date from the SD card. Among the first value, total value, mean value and accumulated value, the data of the value specified in part arrangement is indicated on the browser as a column/bar or line graph. Up to eight graphs can be displayed. Mixed display of line and bar / column graphs for a single part is also possible.



(Note 1) If target data is missing, the graph is not displayed on the missing point.

### 6.16.2 Setting of Displayed Plots

Setting item	Description
Specify year	12-month display by month, starting from January; Up to 12-point display (scale: 1 to 12)
Specify month	Up to 31-day display by day, starting from the 1st; Up to 31-point display (scale: 1 to 30)
Specify date	24-hour display by hour, starting from 0 hour; Up to 24-point display (scale: 0 to 20)

## 6.16 SD Card Logging Graph Parts

Setting item	Description
Specify hour	60-minute display by minute, starting from 0 minute; Up to 60-point display (scale: 0 to 50)

### 6.16.3 Data and Restrictions That Can Be Graphically Represented

- Only files that are under logging generation management
  - Files that are not created through logging are excluded from the scope, even if contained in the LOG folder.
  - Files are also excluded from the scope if generation management has been cleared due to changes in logging conditions, etc. following file creation.
- The type of logging trigger should be cycle or time.
- The type of determination trigger should be time or record upper limit.
- The logging data should not include ",", linefeed code, or NULL as STRING data.
- Data format that cannot be aggregated: HEXnW, STRING, BIT
- During data aggregation, reading from and writing into the SD card are stopped (accumulation into the logging buffer is continued).

### 6.16.4 Setting Items for the SD Card Logging Graph Part

#### Log settings

The screenshot shows the 'SD Card Logging Graph (sdlog)' interface. The graph on the left displays a linear trend from 0 to 100 over 12 units. The settings panel on the right includes the following options:

- Log number (LOGn): 0
- Log filename: LogFileName
- Plot type: 1 year
- Plot type menu:
- Save date and plot type selection:
- Summary results: Show
- Controls position: top
- Legend: Hidden
- Number of data columns: 1
- Timeout (s) (0-999): 60

Setting	Description
Log number (LOGn)	0 to 15
Log filename	Specify the file name to be recorded in error indication.

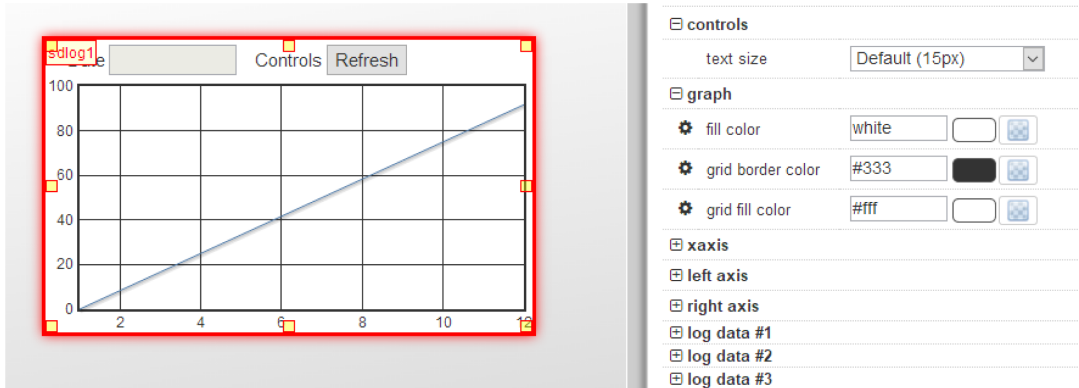
Setting	Description
Plot type	Select a plot period. It can be selected from <b>1 year</b> , <b>1 month</b> , <b>1 day</b> , and <b>1 hour</b> .
Plot type menu	The display plot type can be made changeable during web server function execution.
Save date and plot type selection	It can be selected whether or not to save the date, time and plot type specified in the previous run on the browser.
Summary results	It can be selected whether or not to acquire the following upon the completion of log file reading. Files in the directory / aggregated files / files with errors
Controls position	The position of the [Refresh] button can be selected from top, bottom, left and right.
Legend	The position of legend display can be selected.
Number of data columns	1 to 8
Timeout (s)	The timeout time for the aggregation process can be specified in the range from 0 to 999 seconds.

## Title

Setting	Description
text	The title of the SD card logging graph can be specified.
alignment	Specify the alignment of the title.
color	Specify the text color of the title.
title size	Specify the text size of the title.
title font	Specify the text font used for the title.
decoration	Specify the text style used for the title.

## 6.16 SD Card Logging Graph Parts

### Operation button / Graph

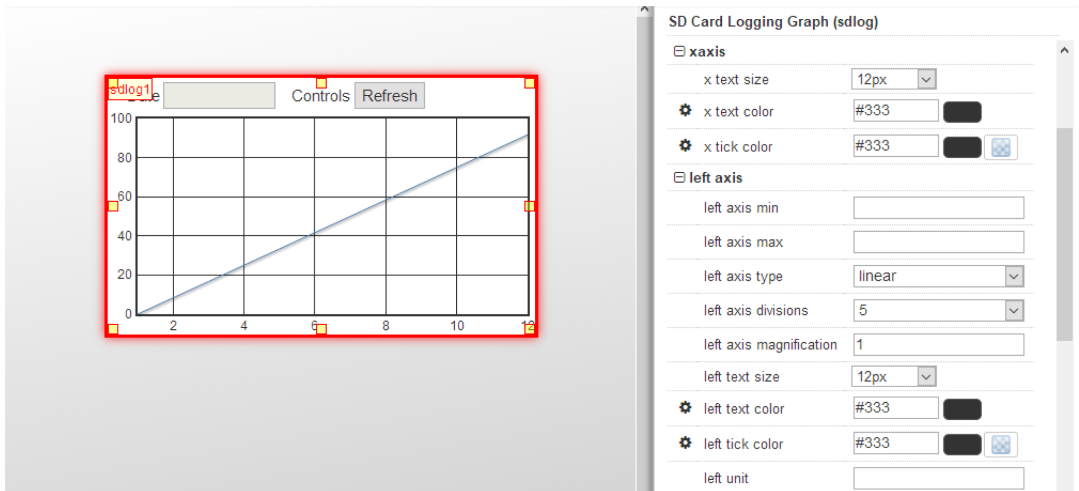


The screenshot shows a line graph with a y-axis from 0 to 100 and an x-axis from 0 to 12. A blue line starts at (0,0) and goes up to (12,90). The graph has a grid. Above the graph is a 'Controls' button and a 'Refresh' button. To the right is a settings panel with the following options:

- controls**
  - text size: Default (15px)
- graph**
  - fill color: white
  - grid border color: #333
  - grid fill color: #fff
- axis**
  - left axis
  - right axis
  - log data #1
  - log data #2
  - log data #3

Setting	Description
<b>operation button</b>	
text size	Specify the character size of the operation button.
<b>graph</b>	
fill color	Background color can be specified.
grid border color	Grid border color can be specified.
grid fill color	Grid fill color can be specified.

### X axis / Left axis / Right axis



The screenshot shows the same line graph as above. To the right is a settings panel titled 'SD Card Logging Graph (sdlog)' with the following options:

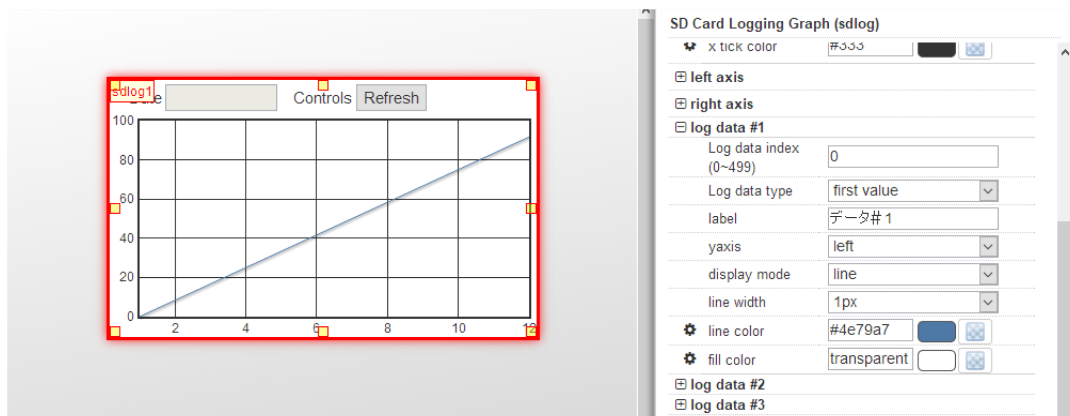
- xaxis**
  - x text size: 12px
  - x text color: #333
  - x tick color: #333
- left axis**
  - left axis min: [empty]
  - left axis max: [empty]
  - left axis type: linear
  - left axis divisions: 5
  - left axis magnification: 1
  - left text size: 12px
  - left text color: #333
  - left tick color: #333
  - left unit: [empty]

Setting	Description
<b>xaxis</b>	
x text size	x text size can be specified.
x text color	x text color can be specified.

Setting	Description
x tick color	x tick color can be specified.
<b>left axis</b>	
left axis min	Specify the left axis min value.
left axis max	Specify the left axis max value.
left axis type	Specify the left axis type. It can be selected from "linear", "log10", and "log".
left axis divisions	Specify the number of divisions of the left scale. It can be selected "Hide", "Auto-select", and "2 to 23". For selection from "2 to 23", the axis scale is indicated in accordance with the number of divisions, only when both the min and max values are specified. If either or both of the min and max values have yet to be specified, "Auto-select" supersedes the selection of "2 to 23".
left axis magnification	Left data amplification can be specified.
left text size	Left text size can be specified.
left text color	Left text color can be specified.
left tick color	Left tick color can be specified.
left unit	Left unit can be specified.
<b>right axis</b>	
right axis min	Specify the min value for the right axis.
right axis max	Specify the max value for the right axis.
right axis type	Specify the right axis type. It can be selected from "linear", "log10", and "log".
right axis divisions	Specify the number of divisions of the right scale. It can be selected "Hide", "Auto-select", and "2 to 23". For selection from "2 to 23", the axis scale is indicated in accordance with the number of divisions, only when both the min and max values are specified. If either or both of the min and max values have yet to be specified, "Auto-select" supersedes the selection of "2 to 23."
right axis magnification	Right data amplification can be specified.
right text size	Right text size can be specified.
right text color	Right text color can be specified.
right tick color	Right tick color can be specified.
right unit	Right unit can be specified.

## Log items 1 to 8

## 6.16 SD Card Logging Graph Parts



Setting	Description
<b>Log items 1 to 8</b>	
Log data index	Specify the column in which the log file is stored in the range from 0 to 499.
Log data type	Specify the data format to be displayed on the graph. It can be selected from "First value", "Total value", "Mean value", and "Accumulated value".
label	Enter the string for the logging item.
yaxis	The axis for the logging item can be selected from "Left" and "Right".
display mode	The graph presentation can be selected from "Line", "Dot", "Line + dot", and "Bar/column".
line width	The line thickness for a line graph can be selected.
line color	The line color can be specified.
fill color	The fill color for a bar / column graph can be specified.

### 6.16.5 List of Errors

Code	Name	Description of error
01	Processing error	The [Refresh] button was pressed before aggregation was completed.
02	Logging unregistered error	An unregistered log number was referred to.
03	Plot specification error	The data to be plotted is not present.
04	Aggregation item error	An invalid data item number or invalid item count was set.
103	SD card not inserted, abnormality, or no log folder error	No SD card is inserted into FP7, or there is an abnormality in the SD card. Even though there is no problem in the SD card, an error is reported if the specified log folder is not present.
104	Excessive access to SD card error	There is excessive access to the SD card.
105	Aggregation timeout error	Refresh was not completed by the timeout time for aggregation timeout error.



### 6.16.6 Properties of SD Card Logging Graph

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7
Log settings	Log settings
Log number	0 to 15
Log filename	A file name to be recorded in error indication
Plot type	A plot period
Plot type menu	This setting is used to change the display plot type during web server function execution.
Save data and plot type selection	Select whether or not to save the date, time and plot type specified in the previous run on the browser.
Summary results	Select whether or not to acquire the following upon the completion of log file reading.
Controls position	The position of the Refresh button can be set.
Legend	The position of legend can be displayed.
Number of data columns	Set the number of data columns.
Timeout (s)	Timeout time for aggregation process
title	Title setting of a graph
text	Title character string
alignment	Title arrangement
color	Title color
title size	Title size
title font	Title font
decoration	Text style for the title
operation button	Operation button settings
text size	Character size of operation button
graph	Graph settings
fill color	Background color of a graph
grid border color	Color of a graph frame

## 6.16 SD Card Logging Graph Parts

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Property	Description
grid fill color	Background color of a graph
x axis	X axis settings
x text size	String size displayed on the horizontal axis
x text color	String color displayed on the horizontal axis
x tick color	Horizontal axis tick color
left axis / right axis	Axis setting
left axis / right axis min	Min value for left axis / right axis
left axis / right axis max	Max value for left axis / right axis
left axis / right axis type	Type of left axis / right axis
left axis / right axis divisions	Number of divisions of the left / right scale
left axis / right axis magnification	Magnification of the left axis / right axis scale
left axis / right axis text size	Character size of the left axis / right axis
left axis / right axis text color	character color of the left axis / right axis
left axis / right axis tick color	Scale line color of the left axis / right axis
left axis / right axis unit	Left axis / right axis unit
Log items 1 to 8	Log item settings
Log data index	Specify the column in which the log file is stored.
Log data type	Data format displayed on the graph
label	Enter the string for the logging item.
yaxis	Set the axis for the logging item.
display mode	Display mode for the graph
line width	Set the line thickness for a line graph.
line color	Set the line color.
fill color	Fill color for bar graph

## 6.17 Data Parts

Using data parts enables displaying values, character strings, date and time.

When values or strings are displayed from data parts, the writing operation is also available.

Writing operation is not available when date and time is displayed.

By setting a peak hold device when displaying a value, the minimum or maximum value of the displayed value can be output to the internal device.

The update cycle for the display contents of data parts can be specified by setting the display cycle.

### **i** Info.

- The following improvements have been made in Ver.3.1.0.
  - Added Time 0 (BIN) to "format" (refer to "P.6-87").

### 6.17.1 Monitoring character string information with data parts

Character strings can be monitored as well as values.

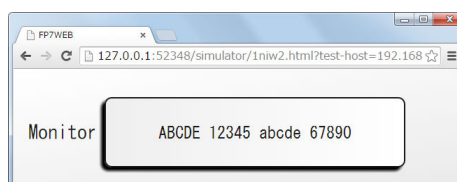
\* Input/output character strings can be entered as both half size and full size characters.

When Japanese is input, it is processed as Shift-JIS.

## Setting method

(Note 1) "string 0", "string 1" and "string 2" of the display / input method are different in the input/output format.  
For details, refer to "[Character string format](#)".

## Operation image



## 6.17 Data Parts

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(Note 1) The appearances of "string 0", "string 1" and "string 2" are the same.

### Character string format

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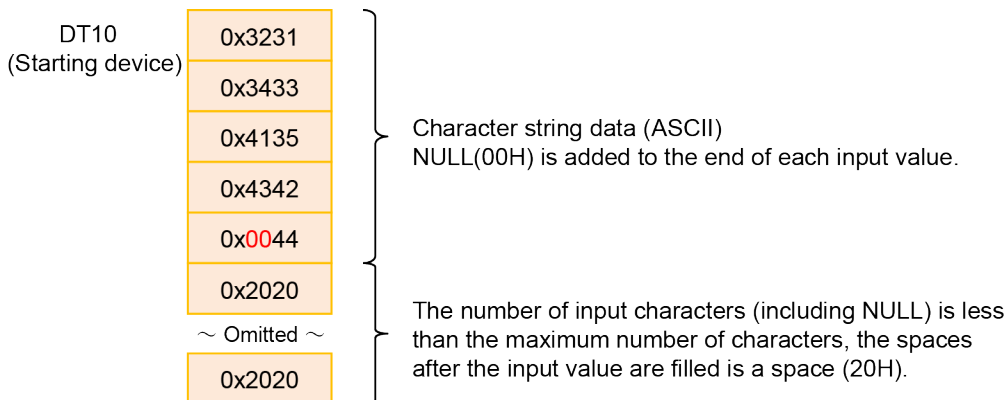
#### **Notes concerning the input/output format of string 0**

- When selecting "Add NULL", NULL(00H) is added to the end of an input value when inputting from a data part and output is performed.  
The NULL(00H) added to the end of the input value is included in the number of input characters.  
The number of the input characters including NULL should be within the maximum number of characters.
- When the number of input characters is less than the maximum number of characters for outputting from a data part, space (20H) is entered after the input value.
- When displaying string for a data part, all the data of the maximum number of characters are displayed even when NULL(00H) data is included.

#### **[Input/output format of string 0 (NULL is added)]**

When "12345ABCD" is input, it is set in PLC as follows.

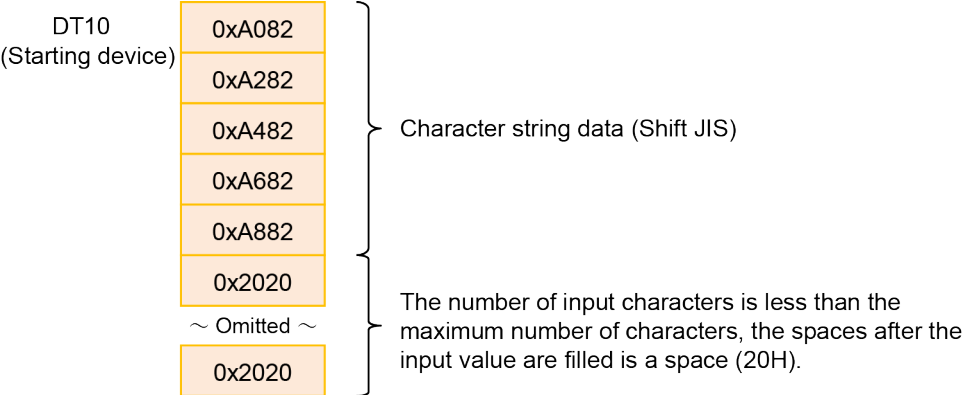
When a maximum of 100 characters (the maximum number of characters is set to 100) can be input;



#### **[Input/output format of string 0 (NULL is not added)]**

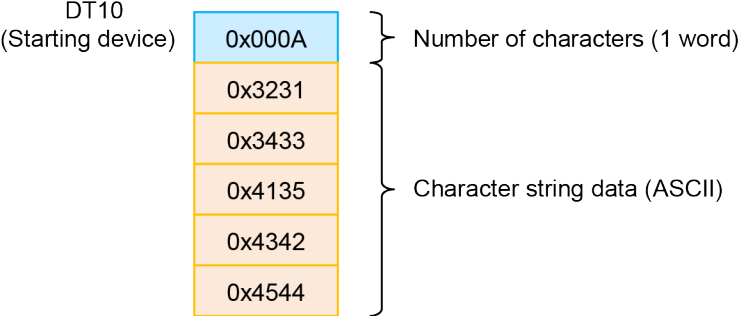
When "12345ABCDE" is input, it is set in PLC as follows.

When a maximum of 100 characters (the maximum number of characters is set to 100) can be input;



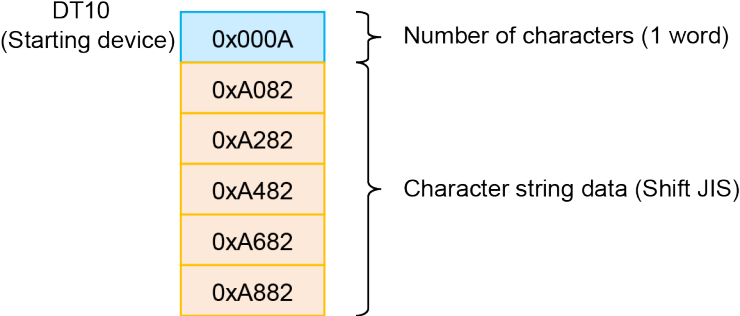
**[Input/output format of string 1]**

When "12345ABCDE" is input, it is set in PLC as follows.  
 When a maximum of 100 characters (max-length is set to 100) can be input;



**[Input/output format of string 1]**

When "12345ABCDE" is input, it is set in PLC as follows.  
 When a maximum of 100 characters (max-length is set to 100) can be input;

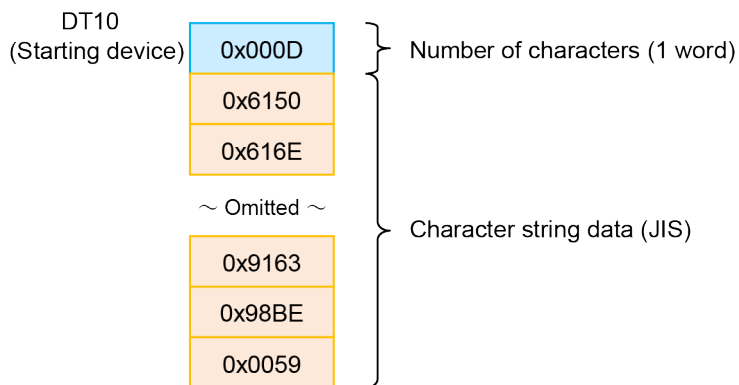


**[Input/output format of string 1]**

When "PanasonicTaro" is input, it is set in PLC as follows.  
 When a maximum of 100 characters (max-length is set to 100) can be input;

## 6.17 Data Parts

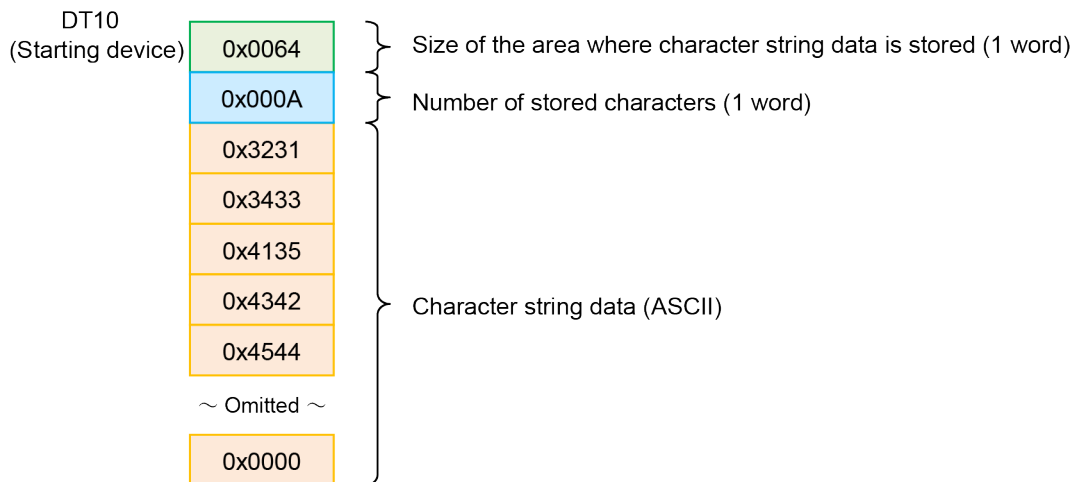
---



### [Input/output format of string 2]

When "12345ABCDE" is input, it is set in PLC as follows.

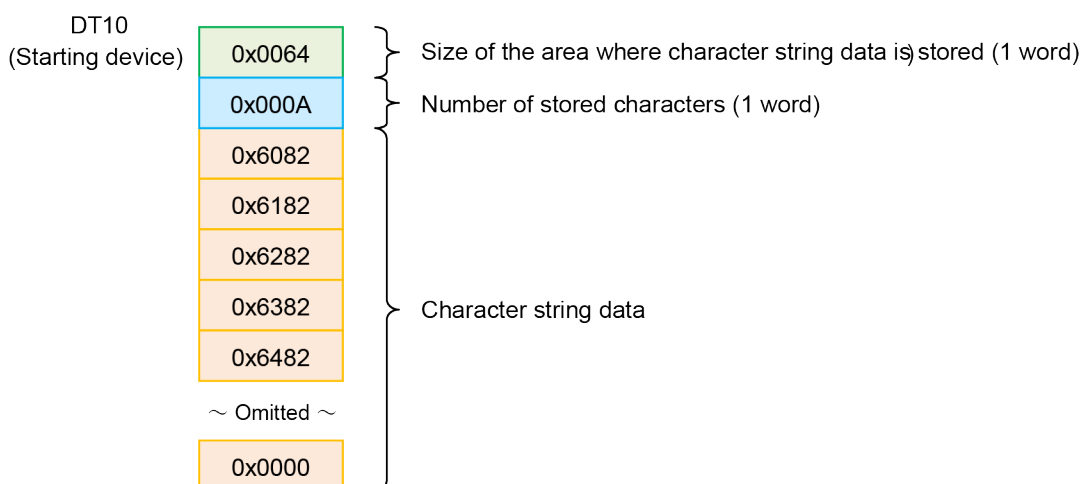
When a maximum of 100 characters (max-length is set to 100) can be input;



### [Input/output format of string 2]

When "A B C D E" is input, it is set in PLC as follows.

When a maximum of 100 characters (max-length is set to 100) can be input;

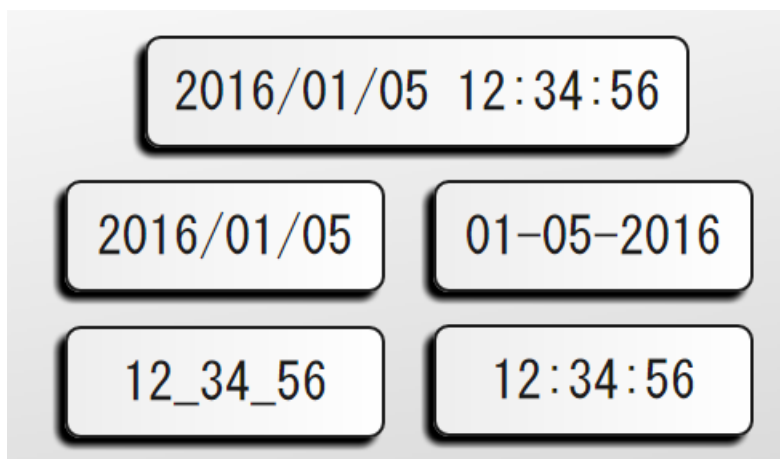


### 6.17.2 Monitoring time information with data parts

Data parts can display the time information stored in specified formats.

The display method of time is selectable from multiple options.

Once the time display setting is made, the input operation cannot be performed from data parts.



### Time display format

#### Notes concerning time display formats

The following three displays are available for time information, however, formats vary depending on the displayed contents.

Store data in the format which matches each display content.

1. Display of year, month and day (DATE)
2. Display of hour, minute and second (TIME)
3. Display of year, month, day, hour, minute and second (DATE & TIME).

## 6.17 Data Parts

---

### [Input format of Time 0 (BIN)]

The input format of time (BIN) is composed of 6 words.

The format of each display content is as follows.

1. When displaying "2016/01/23" as year, month and day (DATE);

(1st word) (2nd word) (3rd word) (4th word) (5th word) (6th word)

16	1	23	—	—	—
Year	Month	Day	Unused area		

2. When displaying "10:25:30" as hour, minute and second (TIME);

(1st word) (2nd word) (3rd word) (4th word) (5th word) (6th word)

10	25	30	—	—	—
Hour	Minute	Second	Unused area		

3. When displaying "2016/01/23 10:25:30" as year, month, day, hour, minute and second (DATE & TIME);

(1st word) (2nd word) (3rd word) (4th word) (5th word) (6th word)

16	1	23	10	25	30
Year	Month	Day	Hour	Minute	Second

### [Input format of Time 1 (BCD)]

The input format of time (BCD) is composed of 3 words.

The format of each display content is as follows.

1. When displaying "2016/01/23" as year, month and day (DATE);

(1st word) (2nd word) (3rd word)

0x1601	0x23**	0x****
--------	--------	--------

Year, month      Day      “\*” is an unused area.

2. When displaying "10:25:30" as hour, minute and second (TIME);

(1st word)

0x1025	0x30**	0x****
--------	--------	--------

Hour, minute      Second      “\*” is an unused area.

3. When displaying "2016/01/23 10:25:30" as year, month, day, hour, minute and second (DATE & TIME);

(1st word) (2nd word) (3rd word)

0x1601	0x2310	0x2530
--------	--------	--------

Year, month      Day, hour      Minute, second

### [Input format of Time 2 (ASCII)]

The input format of time (ASCII) is composed of 6 words.

The format of each display content is as follows.

1. When displaying "2016/01/23" as year, month and day (DATE);



(1st word) (2nd word) (3rd word) (4th word) (5th word) (6th word)

0x3631	0x3130	0x3332	—	—	—
--------	--------	--------	---	---	---

Year Month Day Unused area

2. When displaying "10:25:30" as hour, minute and second (TIME);

(1st word) (2nd word) (3rd word) (4th word) (5th word) (6th word)

0x3130	0x3235	0x3330	—	—	—
--------	--------	--------	---	---	---

Hour Minute Second Unused area

3. When displaying "2016/01/23 10:25:30" as year, month, day, hour, minute and second (DATE & TIME);

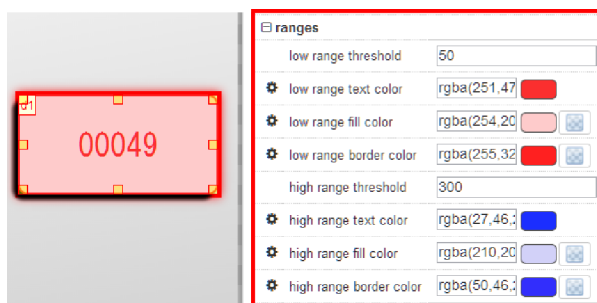
(1st word) (2nd word) (3rd word) (4th word) (5th word) (6th word)

0x3631	0x3130	0x3332	0x3031	0x3532	0x3033
--------	--------	--------	--------	--------	--------

Year Month Day Hour Minute Second

### 6.17.3 Changing display contents by threshold values

Display contents can be changed according to acquired values by setting the upper and lower threshold values.

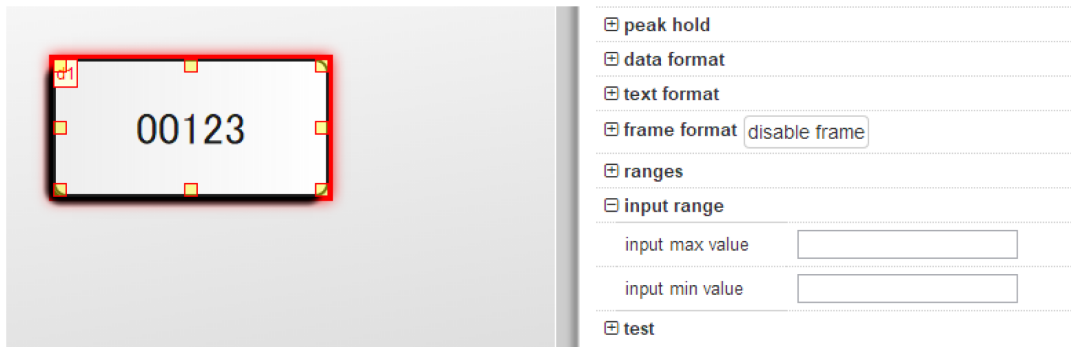


Setting	Description
low range threshold	Specify a threshold of low range. When an acquired value is less than the threshold value, the display changes to the content of low range.
low range text color	Set the font color when an acquired value is in the low range.
low range fill color	Set the background color when an acquired value is in the low range.
low range border color	Set the frame color when an acquired value is in the low range.
high range threshold	Specify a threshold of high range. When an acquired value is less than the threshold value, the display changes to the content of high range.
high range text color	Set the font color when an acquired value is in the high range.
high range fill color	Set the background color when an acquired value is in the high range.
high range border color	Set the frame color when an acquired value is in the high range.

## 6.17 Data Parts

### 6.17.4 Limitation of input range

When the input is performed to the range outside of a specified input range, writing to a PLC cannot be performed.



Setting	Description
input max value	Specify the upper limit value of input. When not specified (blank), a range in accordance with the type specified for data type is set automatically.
input min value	Specify the lower limit value of input. When not specified (blank), a range in accordance with the type specified for data type is set automatically.

### 6.17.5 Properties of Data Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
read device	Readout destination word device
read index	Readout destination word device for index modification
read mode	Timing of reading devices (Repeat, Only once when trigger occurs)

Property	Description
read timing	Bit device to be a read trigger
write device	Write destination word device
write index device	Write destination word device for index modification
enable bit device	Bit device for referring to the valid state of operation
enable mode	a-contact / b-contact
notification device	Destination bit device of the notice of changes by input
reset notification	Output method of notice of changes
peak hold	Peak hold device setting
min value	Destination internal device for updating minimum values.
max value	Destination internal device for updating maximum values.
data format	Number format setting
refresh period	Update cycle of display values.
format	Select binary, octal, hexadecimal.
number of digits	Number of digits
number of decimals	Decimal display digit
zero padding	Pad or not pad upper digits with zeroes.
show plus sign	Display or not display a + sign.
prefix	Character string added before display values
suffix	Character string added after display values
format	Select decimal.
number of digits	Number of digits
number of decimals	Decimal display digit
zero padding	Pad or not pad upper digits with zeroes.
show plus sign	Display or not display a + sign.
prefix	Character string added before display values
suffix	Character string added after display values
format	Select string 0 / string 1 / string 2.
max-length	Maximum number of input characters (Size of a character string area when specifying string 2)
null terminated	Without check: Not add NULL at the time of input, Checked: Add NULL at the time of input * This can be specified only when String 0 has been set.
prefix	Character string added before display values
suffix	Character string added after display values
format	Select Time (BCD) or Time (ASCII).
display format	Select DATE, TIME or DATE&TIME.
date format	Select a display format of year, month and day. (Selectable in the case of DATE or DATE&TIME)

## 6.17 Data Parts

Property	Description
time format	Select a display format of hour, minute and second. (Selectable in the case of DATE or DATE&TIME)
prefix	Character string added before display values
suffix	Character string added after display values
text format	Text settings
alignment	Horizontal direction display position of character strings
vertical alignment	Vertical direction display position of character strings
color	Color of the character string
decoration	Modification of the character string
text size	Size of the character string
text font	Font of the character string
frame format	Frame settings
fill color	Background color
border style	Border type
border color	Border color
border radius	Rounds the corners of a frame.
border width	Width of a border
shadow pos	Shadow position of a border
shadow dist	Spread of shadow
shadow blur dist	Spread of blur
shadow color	Shadow color
shadow inset	Shadow of concave
ranges	Threshold values of upper and lower limits and display settings
low range threshold	Specify a threshold of low range.
low range text color	Set the font color when an acquired value is in the low range.
low range fill color	Set the background color when an acquired value is in the low range.
low range border color	Set the frame color when an acquired value is in the high range.
high range threshold	Specify a threshold of high range.
high range text color	Set the font color when an acquired value is in the high range.
high range fill color	Set the background color when an acquired value is in the high range.
high range border color	Set the frame color when an acquired value is in the high range.
input range	Range of input data
input max value	Upper limit value of input data
input min value	Lower limit value of input data
test	Display confirmation setting when editing a screen.
value	Display value

## 6.18 Table Parts

By setting a specified area in a table as a monitor area using a table part, data can be displayed in tabular form.

### 6.18.1 Procedure of table creation

#### 1 2 Procedure

- After arranging table parts, the numbers of rows and columns are set.  
The maximum number of cells in a table is 2048. When setting it to be larger than 2048, the numbers of rows and columns are automatically corrected to make the number of cells be within 2048.

Table widget (table)

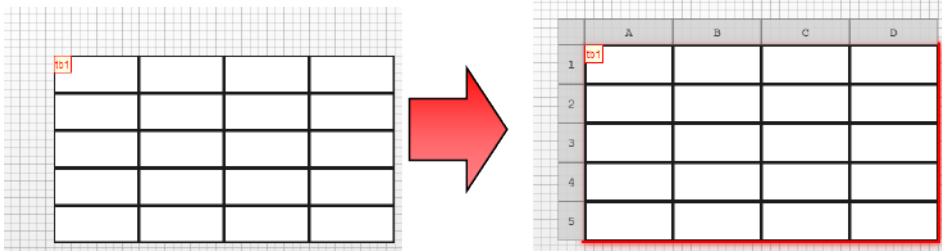
common parameters

table

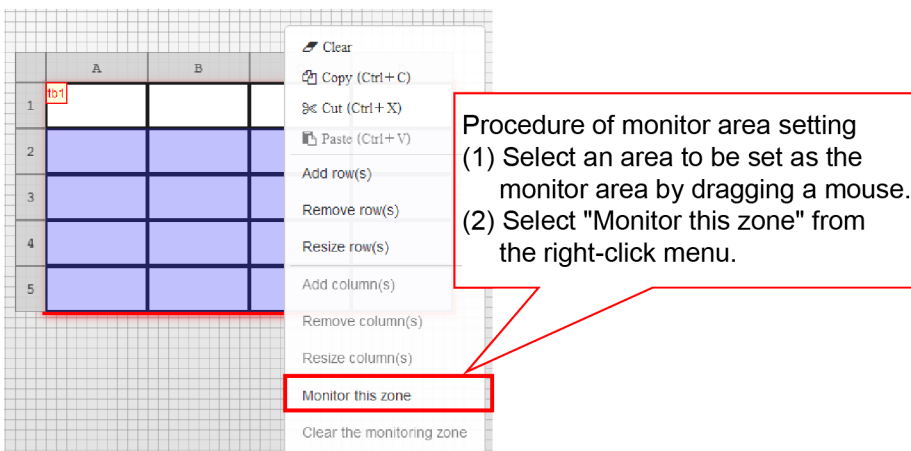
number of rows

number of columns

- Change the mode to the edit mode by double-clicking the table part.  
Once the mode is changed to the edit mode, the row and column numbers are displayed.



- Set the cell area for displaying data for the monitor area.

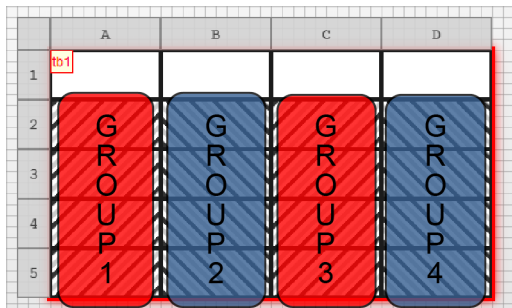


Cells other than the monitor area can display characters and messages as text areas.

## 6.18 Table Parts

### 6.18.2 Reference device of monitor area

Devices can be set for each column.



The reference address of each row increases sequentially by "Number of words of data type x Subsequent device".

When the data type is "SS" (1 word) and the subsequent device is "5", the reference devices are as follows.

First line (1st line)	DT0	<div style="border: 1px solid gray; padding: 5px;"> <p>device</p> <p>host address <input type="text" value="Global settings"/></p> <hr/> <p>network protocol <input type="text" value="Global settings"/></p> <hr/> <p>read device</p> <table border="0"> <tr> <td>type</td> <td><input type="text" value="Global"/></td> </tr> <tr> <td>device type</td> <td><input type="text" value="DT"/></td> </tr> <tr> <td>No.</td> <td>0</td> </tr> <tr> <td>data type</td> <td><input type="text" value="SS"/></td> </tr> </table> <hr/> <p>read index device</p> <table border="0"> <tr> <td>type</td> <td><input type="text" value="None"/></td> </tr> </table> <hr/> <p>read device step <input type="text" value="5"/></p> </div>	type	<input type="text" value="Global"/>	device type	<input type="text" value="DT"/>	No.	0	data type	<input type="text" value="SS"/>	type	<input type="text" value="None"/>
type	<input type="text" value="Global"/>											
device type	<input type="text" value="DT"/>											
No.	0											
data type	<input type="text" value="SS"/>											
type	<input type="text" value="None"/>											
	DT5											
	DT10											
	DT15											
	DT20											
	DT25											
	~ Omitted ~											
Last line (n+1st line)	DT 5×n											

### 6.18.3 Functions of cells in monitor area

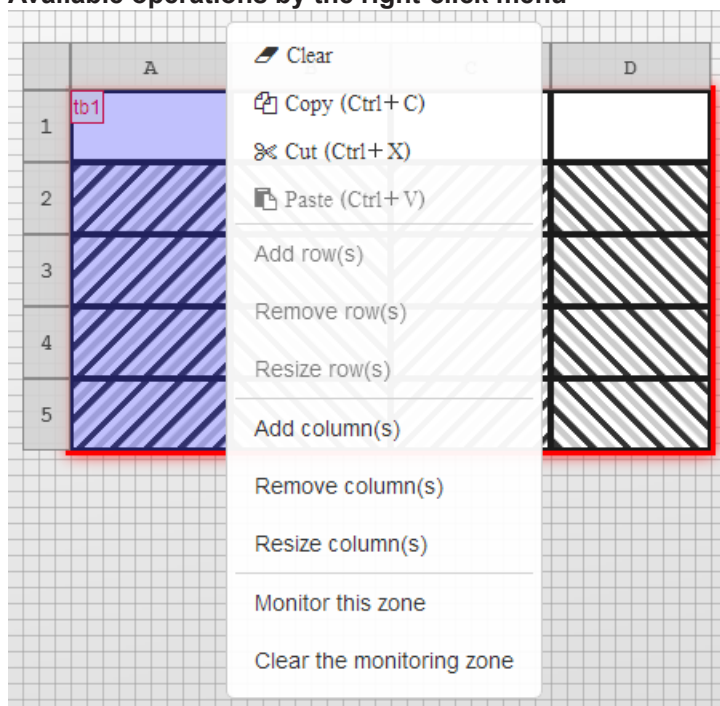
- The following functions are available as well as data parts.
  1. Values, character strings, date and time can be displayed.
  2. The writing operation is also available for value and character string displays.
  3. By setting a peak hold device when displaying a value, the minimum or maximum value of the displayed value can be output to the internal device.
  4. The update cycle for display contents can be specified by setting the display cycle.
- When "Messages & Translations..." has been set, registered messages can be displayed as well as message parts.

### 6.18.4 Editing operation of table parts

In the edit mode of table parts, operations such as inserting or deleting rows and columns, resize, copying cells are available.

1. Right-click the cell where you want to insert an object for performing these operations using the right-click menu.
2. Operations can also be performed by the shortcut key input of a keyboard.

#### Available operations by the right-click menu



#### Available operations from a keyboard

Operation	Keyboard operation
Copying cells	Ctrl + C
Pasting cells	Ctrl + V
Cutting cells	Ctrl + X
Clearing text of cells	Delete

- The operation "Clear" initializes the settings of character format or borders besides clearing text in a selected range.
  - ※Please use the <Delete> key if you want to clear the text only.
- In the "Clear the monitoring zone" operation, the monitor area specified in "Monitor this zone" is canceled.
- The following methods are available for changing the height of rows or width of columns.
  1. You can change the size of a border by dragging it.
  2. The "Resize row(s)" or "Resize column(s)" can be specified by the right-click menu. Up to 1000 pixels can be specified for a row height and a column width.

## 6.18 Table Parts

---



**Columns/rows resize**

Enter the wanted width or height (in pixels)

Value (in pixels)

**Execute** **Cancel**

The current sizes are displayed as the initial values. Press the [Execution] button after inputting desired sizes.

### 6.18.5 Formatting of cells

- The borders and character format can be set for each cell in a table.
- The setting of outer frame can be changed collectively by changing the style and color of any of top, right, bottom and left borders and the frame width after checking the box for the outer frame array setting.
- The border style is selectable from "none", "solid", "dashed", "dotted", and "double".
- When selecting "double" for the border style, the minimum border width is 2 pixels. Even when setting it to 1 pixel, the appearance of the border does not change from 2 pixels.



**frame format**

outer border

border top style: solid

border right style: solid

border bottom style: solid

border left style: solid

border inner style: solid

border top color: #1b1b1b

border right color: #1b1b1b

border bottom color: #1b1b1b

border left color: #1b1b1b

border inner color: #1b1b1b

border top width: 2px

border right width: 2px

border bottom width: 2px

border left width: 2px

border inner width: 2px

fill color: #fff

Check the box of "outer border".

When the box of " outer border" is checked, the changes of the settings of top, right, bottom and left are linked. For setting each border separately, uncheck this box.

### 6.18.6 Properties of Table Parts

#### ■ Properties

Properties	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
table	Appearance of a table
number of rows	Number of lines of a table
number of columns	Number of columns of a table
device	Appearance of a table

## 6.18 Table Parts

Properties	Description
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
* This can be specified only monitoring cell	
read device	Readout destination word device of the starting cell of monitor column group
read index device	Readout destination word device for index modification of whole monitor column group
read device step	Specification of an increment address between cells in monitor column group
read mode	Timing of reading devices (Repeat, Only once when trigger occurs)
read timing	Bit device to be a read trigger
write device	Write destination word device of the starting cell of monitor column group
write index device	Write destination word device for index modification of whole monitor column group
write device step	Specification of an increment address between cells in monitor column group
enable bit device	Bit device for referring to the valid state of operation
enable mode	a-contact / b-contact
notification device	Destination bit device of the notice of changes by input
reset notification	Output method of notice of changes
peak hold	Peak hold device setting
min value	Destination internal device for updating minimum values.
max value	Destination internal device for updating maximum values.
data format	Number format setting
refresh period	Update cycle of display values.
format	Select binary, octal, hexadecimal.
number of digits	Number of digits
number of decimals	Decimal display digit
zero padding	Pad or not pad upper digits with zeroes.
show plus sign	Display or not display a + sign.
prefix	Character string added before display values
suffix	Character string added after display values
format	Select decimal.
number of digits	Number of digits
number of decimals	Decimal display digit
zero padding	Pad or not pad upper digits with zeroes.
show plus sign	Display or not display a + sign.
prefix	Character string added before display values

Properties	Description
suffix	Character string added after display values
format	Select string 0 / string 1 / string 2.
max-length	Maximum number of input characters (Size of a character string area when specifying string 2)
null terminated	Without check: Not add NULL at the time of input, Checked: Add NULL at the time of input * This can be specified only when String 0 has been set.
prefix	Character string added before display values
suffix	Character string added after display values
format	Select Time (BCD) or Time (ASCII).
display format	Select DATE, TIME or DATE&TIME.
date format	Select a display format of year, month and day. (Selectable in the case of DATE or DATE&TIME)
time format	Select a display format of hour, minute and second. (Selectable in the case of DATE or DATE&TIME)
prefix	Character string added before display values
suffix	Character string added after display values
text format	Text settings
alignment	Horizontal direction display position of character strings
vertical alignment	Vertical direction display position of character strings
color	Color of the character string
decoration	Modification of the character string
text size	Size of the character string
text font	Font of the character string
frame format	Cell frame setting
outer border	Checked: The top, right, bottom and left frames are collectively changed arbitrarily.
border top style	Modification of cell's top border
border right style	Modification of cell's right border
border bottom style	Modification of cell's bottom border
border left style	Modification of cell's left border
border top color	Color of cell's top border
border right color	Color of cell's right border
border bottom color	Color of cell's bottom border
border left color	Color of cell's left border
border top width	Width of cell's top border
border right width	Width of cell's right border
border bottom width	Width of cell's bottom border
border left width	Width of cell's left border
fill color	Background color of cells

## 6.18 Table Parts

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Properties	Description
ranges	Thresholds of low and high ranges and the display setting
low range threshold	Threshold of low range
low range text color	Character color when an acquired value is in the low range
low range fill color	Background color when an acquired value is in the low range
low range border color	Frame color when an acquired value is in the low range
high range threshold	Threshold of high range
high range text color	Character color when an acquired value is in the high range
high range fill color	Background color when an acquired value is in the high range
high range border color	Frame color when an acquired value is in the high range
input range	Input range settings
input max value	Set the upper limit value of input.
input min value	Set the lower limit value of input.

## 6.19 Message Parts

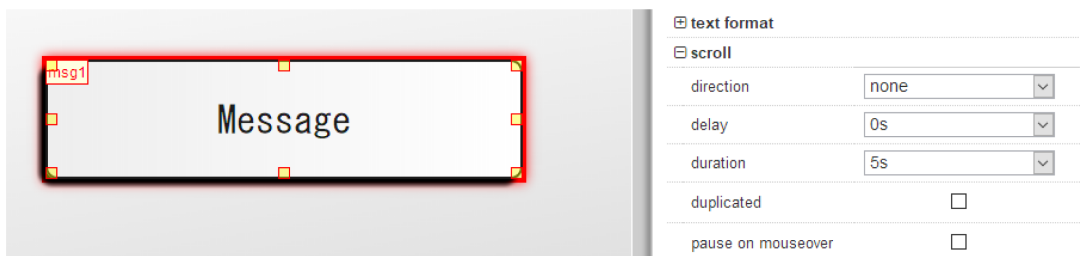
This part is used to display a message corresponding to a message number stored in a word device.

### 6.19.1 Text Format



Setting	Description
alignment	Set the horizontal direction display position of character strings.
vertical alignment	Set the vertical direction display position of character strings.
color	The color of the character strings can be specified.
decoration	The modification of the character string can be specified.
text size	The size of the character string can be specified.
text font	The font of the character string can be specified.

### 6.19.2 Scroll

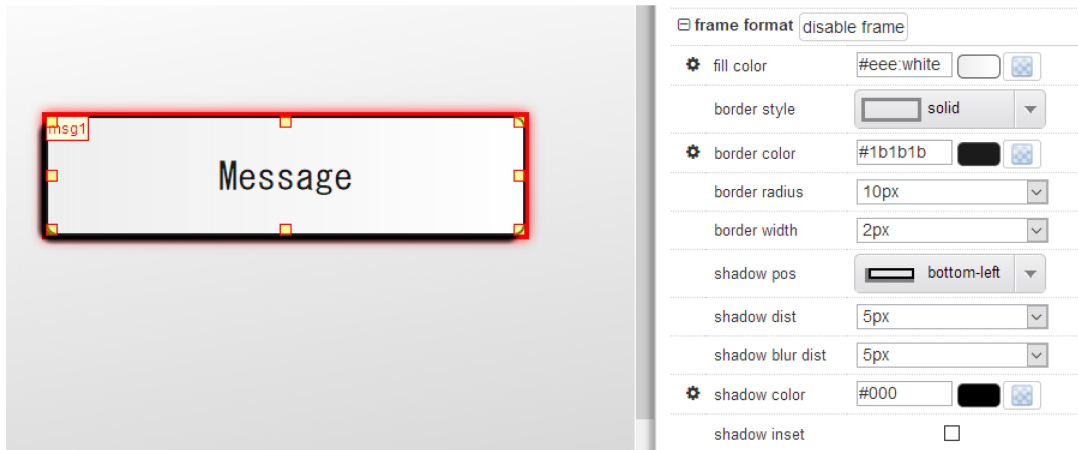


Setting	Description
direction	The scroll direction can be specified.
delay	The delay time until the scroll start can be specified.
duration	The scroll time can be specified.
duplicated	The repeat of scroll can be specified.

## 6.19 Message Parts

Setting	Description
pause on mouseover	Pause by mouse can be specified.

### 6.19.3 Frame Settings



The image shows a graphical user interface for editing a message part. On the left, a rectangular box labeled 'Message' is displayed with a red border and a shadow. The box has a small 'msg1' label in the top-left corner and several yellow handles for resizing. On the right, a settings panel titled 'frame format' is visible, with a 'disable frame' button. The settings include:

- fill color: #eee.white
- border style: solid
- border color: #1b1b1b
- border radius: 10px
- border width: 2px
- shadow pos: bottom-left
- shadow dist: 5px
- shadow blur dist: 5px
- shadow color: #000
- shadow inset:

Setting	Description
fill color	Set the background color.
border style	Set the border type.
border color	Set the border color.
border radius	Set rounded corners of the frame.
border width	Set the width of a border.
shadow pos	Set the shadow position of a border.
shadow dist	Set the spread of shadow.
shadow blur dist	Set the spread of blur.
shadow color	Set the shadow color.
shadow inset	Set the shadow of concave.

### 6.19.4 Properties of Message Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.

Property	Description
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Common parameters
security level	X coordinate of the upper left corner of a part.
device	Device allocation setting
host address	Destination FP7, ELC500
network protocol	m7 (Fixed)
block id device	Acquisition destination word device of a message definition number
read index device	Readout destination device for index modification
text format	Text settings
alignment	Horizontal direction display position of character strings
vertical alignment	Vertical direction display position of character strings
color	Color of the character string
decoration	Modification of the character string
text size	Size of the character string
text font	Font of the character string
scroll	Scroll settings of character strings
direction	Scroll direction
delay	Delay time until the scroll start
duration	Scroll time
duplicated	Repeat of scroll
pause on mouseover	Pause by mouse
frame format	Frame settings
fill color	Background color
border style	Border type
border color	Border color
border radius	Rounds the corners of a frame.
border width	Width of a border
shadow pos	Shadow position of a border
shadow dist	Spread of shadow
shadow blur dist	Spread of blur
shadow color	Shadow color
shadow inset	Shadow of concave
test	Display confirmation setting when editing a screen.
message	Displayed character string

## 6.20 Alarm History

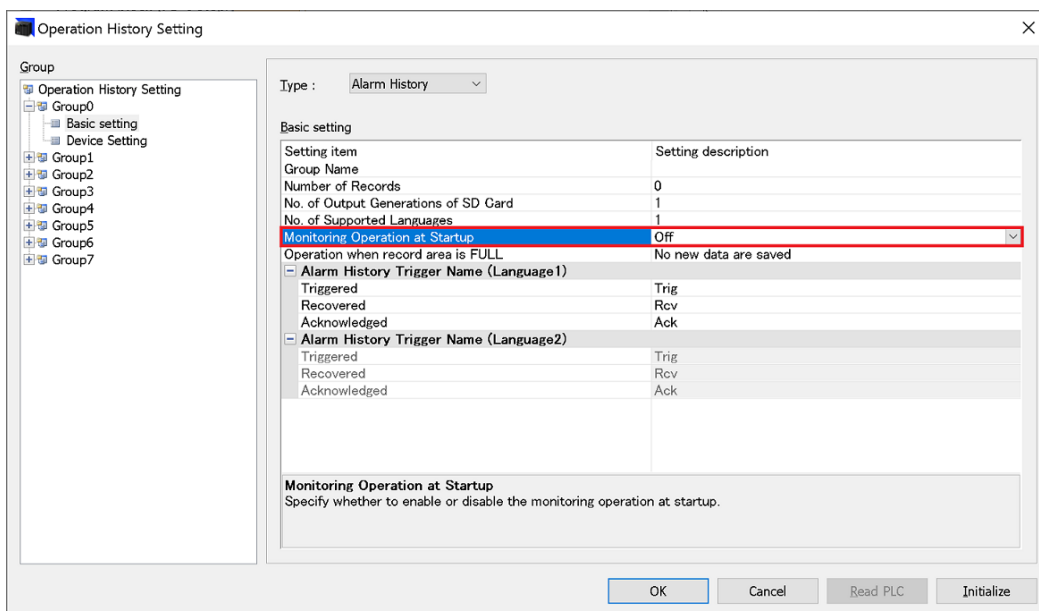
### 6.20 Alarm History

The history can be recorded during the RUN only. It monitors the statuses of bit devices of the PLC and records them in the non-volatile memory within the FP7.

#### 6.20.1 Start / Stop

It can be started/stopped in a group unit by the following three methods.  
The histories at the time of the start/stop can also be saved.

- **Configuration settings**



Setting item	Setting	Description
Monitoring Operation at Startup	Off	The monitoring operation is not automatically started when switching the mode to RUN.
	On	The monitoring operation is automatically started when switching the mode to RUN.

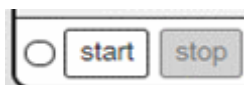
- **Operation instructions**

OPHST: Start the operation history function.

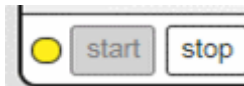
OPHED: Stop the operation history function.

- **Command from a web browser**

Display during stop



Display during start





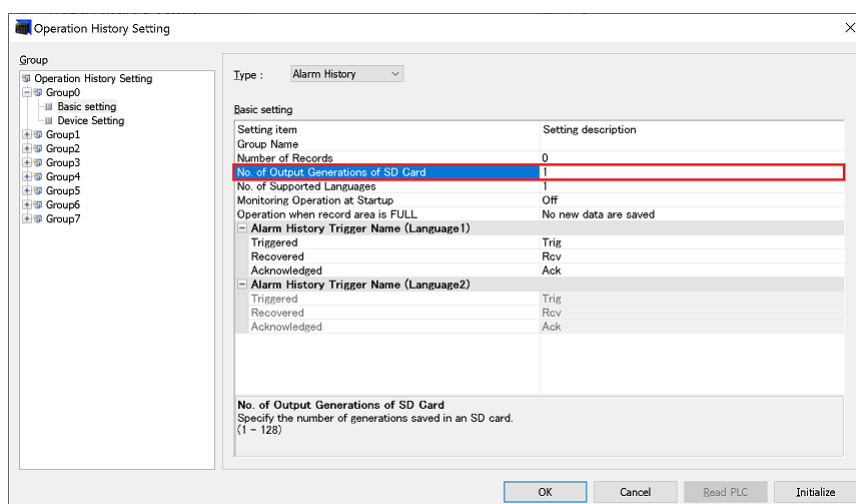
### 6.20.2 Clearing Histories

Histories can be cleared in a group unit by the following two methods.

- **Operation instruction**  
OPHCLR: Clear the operation history.
- **Command from a web browser**



### 6.20.3 CSV Output



Setting item	Setting	Description
No. of Output Generations of SD Card	1 to 128	The number of generations of CSV to be output to an SD card is specified.

(Note 1) CSV files of the number of generations are created. When creating files more than the limit of the number of generations, the oldest file is deleted after the determination of the latest file.

CSV files can be saved by the following method.

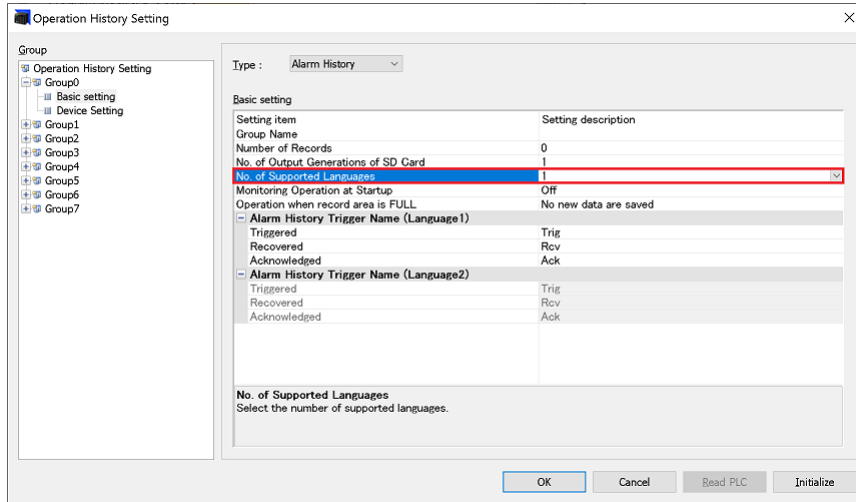
- Recorded data of the alarm history is saved in an SD card in the CSV format for each group using the operation instruction.  
OPHSAVE: Save the operation history in CSV.
- By pressing the [CSV output] button arranged on an alarm history part, CSV files can be saved on a device such as a PC on which a web browser is loaded. For outputting CSV files when the manual update is set, perform the CSV output after pressing the [Manual update] button. Only the history data displayed on the screen is output in the CSV format.

## 6.20 Alarm History

### 6.20.4 Switching Character Strings

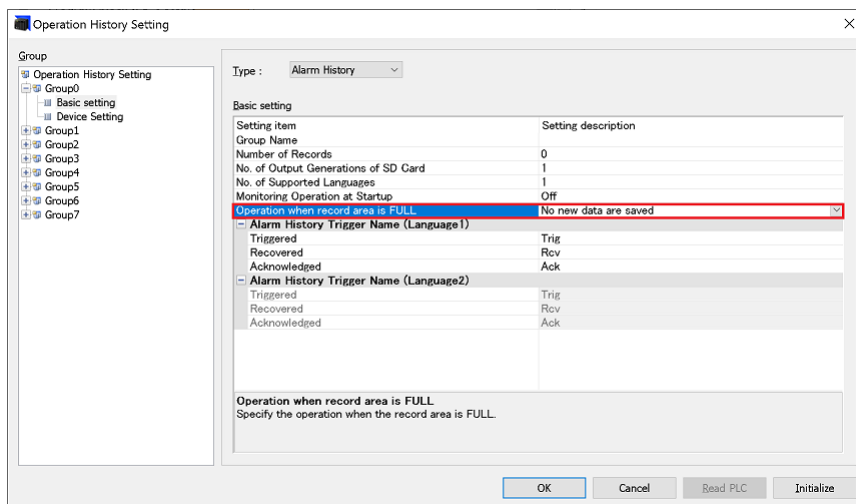
Up to two patterns of message character strings can be registered for FPWIN GR7 or FPWIN Pro7.

Registered character strings can be switched on a web part.



Setting item	Setting	Description
No. of Supported Languages	1 to 2	The number of supported languages is specified.

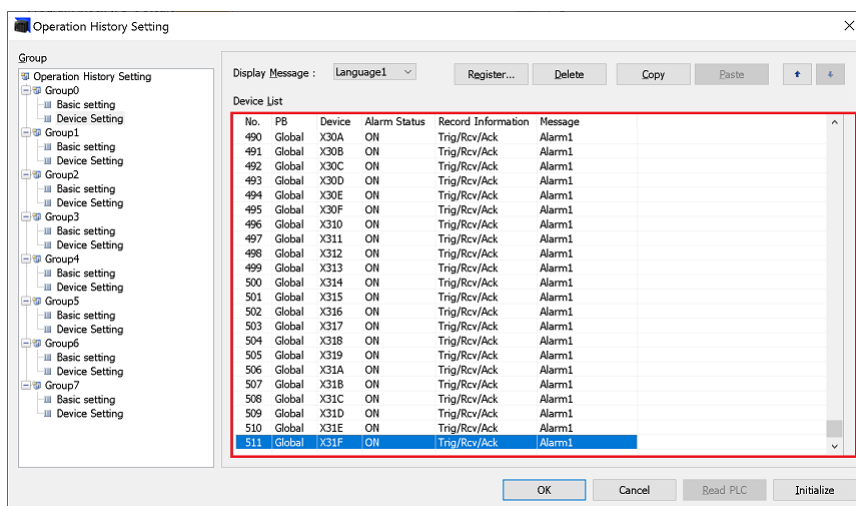
### 6.20.5 When Memory Is Full



Setting item	Setting	Description
Operation when record area is FULL	No new data are saved	When the record area is full, the recording stops.
	Save new data, delete last data	When the record area is full, older data are sequentially overwritten and the recording continues.

Up to 512 bit devices can be registered per group.

Message character strings can be specified for each bit device. (Up to 32 bytes)



Only the data saved in the non-volatile memory within the FP7 can be displayed on alarm history parts. CSV file data cannot be displayed.

Output codes vary according to the output method as follows.

- CSV that is output by the operation instruction: ASCII or SHIFT-JIS
- CSV that is output on a browser: UTF-8

## 6.20.6 Monitoring

### • Specifying devices

Individual devices can be registered as well as the Logging Settings. Consecutive devices can also be registered.

Example 1) No. of continuous registrations (Specify a starting device and the number of continuous registrations)

Alarm No.0	R0
Alarm No.1	R1
:	:
Alarm No.511	R511

## 6.20 Alarm History

Register devices

Global devices  Local devices

Slot No.: 1

Device type: R (internal relay)

No.: 0 (0-2047F)

Data type: ---

Number of continuous registrations: 512 (1-512)

Operation History Setting

Message (32 characters)

Language1: Alarm1

Language2: Alarm2

Alarm Status: Bit ON

Record Information:  Triggered  Recovered  Acknowledged

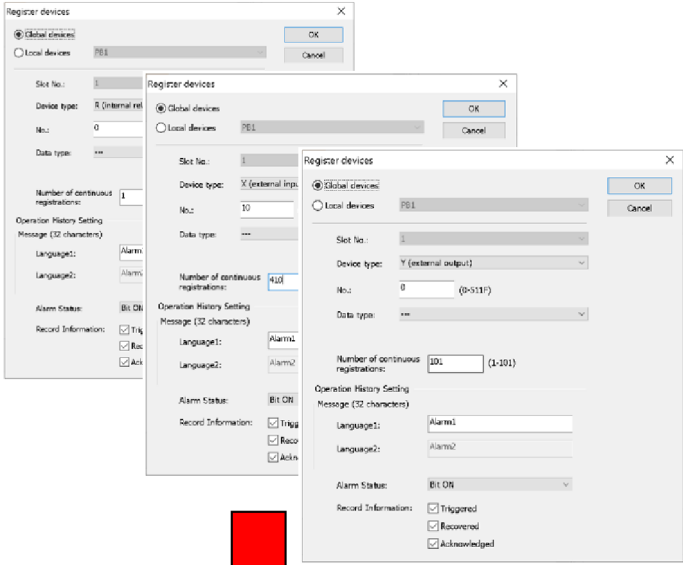
OK Cancel



No.	PB	Device	Alarm Status	Record Information	Message
0	Global	R0	ON	Trig/Rcv/Ack	Alarm1
1	Global	R1	ON	Trig/Rcv/Ack	Alarm1
2	Global	R2	ON	Trig/Rcv/Ack	Alarm1
3	Global	R3	ON	Trig/Rcv/Ack	Alarm1
4	Global	R4	ON	Trig/Rcv/Ack	Alarm1
5	Global	R5	ON	Trig/Rcv/Ack	Alarm1
6	Global	R6	ON	Trig/Rcv/Ack	Alarm1
7	Global	R7	ON	Trig/Rcv/Ack	Alarm1
8	Global	R8	ON	Trig/Rcv/Ack	Alarm1
9	Global	R9	ON	Trig/Rcv/Ack	Alarm1
10	Global	R316	ON	Trig/Rcv/Ack	Alarm1
503	Global	R317	ON	Trig/Rcv/Ack	Alarm1
505	Global	R319	ON	Trig/Rcv/Ack	Alarm1
506	Global	R31A	ON	Trig/Rcv/Ack	Alarm1
507	Global	R31B	ON	Trig/Rcv/Ack	Alarm1
508	Global	R31C	ON	Trig/Rcv/Ack	Alarm1
509	Global	R31D	ON	Trig/Rcv/Ack	Alarm1
510	Global	R31E	ON	Trig/Rcv/Ack	Alarm1
511	Global	R31F	ON	Trig/Rcv/Ack	Alarm1

Example 2) Individual registration

Alarm No.0	R0
Alarm No.1	X10
⋮	⋮
Alarm No.511	Y100



No.	PB	Device	Alarm Status	Record Information	Message
0	Global	R0	ON	Trig/Rcv/Ack	Alarm1
1	Global	X10	ON	Trig/Rcv/Ack	Alarm1
2	Global	X11	ON	Trig/Rcv/Ack	Alarm1
3	Global	X12	ON	Trig/Rcv/Ack	Alarm1
4	Global	X13	ON	Trig/Rcv/Ack	Alarm1
5	Global	X14	ON	Trig/Rcv/Ack	Alarm1
6	Global	X15	ON	Trig/Rcv/Ack	Alarm1
7	Global	X16	ON	Trig/Rcv/Ack	Alarm1
8	Global	X17	ON	Trig/Rcv/Ack	Alarm1
9	Global	X18	ON	Trig/Rcv/Ack	Alarm1
10	Global	X19	ON	Trig/Rcv/Ack	Alarm1
11	Global	X1A	ON	Trig/Rcv/Ack	Alarm1
12	Global	X1B	ON	Trig/Rcv/Ack	Alarm1
130	Global	Y59	ON	Trig/Rcv/Ack	Alarm1
501	Global	Y5A	ON	Trig/Rcv/Ack	Alarm1
502	Global	Y5B	ON	Trig/Rcv/Ack	Alarm1
503	Global	Y5C	ON	Trig/Rcv/Ack	Alarm1
504	Global	Y5D	ON	Trig/Rcv/Ack	Alarm1
505	Global	Y5E	ON	Trig/Rcv/Ack	Alarm1
506	Global	Y5F	ON	Trig/Rcv/Ack	Alarm1
507	Global	Y60	ON	Trig/Rcv/Ack	Alarm1
508	Global	Y61	ON	Trig/Rcv/Ack	Alarm1
509	Global	Y62	ON	Trig/Rcv/Ack	Alarm1
510	Global	Y63	ON	Trig/Rcv/Ack	Alarm1
511	Global	Y64	ON	Trig/Rcv/Ack	Alarm1

● Alarm status

Select the bit status to monitor.

When the bit is in the specified alarm status, "Trig" of the record information is recorded in the internal memory.

Monitored bit status	Description
ON	When the bit changes from OFF to ON, "Trig" is recorded.

## 6.20 Alarm History

Monitored bit status	Description
	When the bit is ON when the power is turned ON, "Trig" is recorded.
OFF	When the bit changes from ON to OFF, "Trig" is recorded.
	When the bit is OFF when the power is turned ON, "Trig" is recorded.
OFF→ON	When the bit changes from OFF to ON, "Trig" is recorded.
	When the bit is ON when the power is turned ON, "Trig" is not recorded.
ON→OFF	When the bit changes from ON to OFF, "Trig" is recorded.
	When the bit is OFF when the power is turned ON, "Trig" is not recorded.

When the active alarm list is displayed, the operation varies according to the selection of the above alarm statuses as follows. (The status of the monitored bit is displayed in real time.)

- When selecting ON or OFF → ON, when the monitored bit is ON, the status is displayed in the active alarm list. When it is OFF, it is not displayed in the list.
- When selecting OFF or ON → OFF, when the monitored bit is OFF, the status is displayed in the active alarm list. When it is ON, it is not displayed in the list.

When the operation history monitoring stops, the FP7 returns information that active alarm is 0.

### 6.20.7 Record

- **Recordable max. number**

The maximum number of recordable statuses is 3000 for 8 groups. When 3000 records are used for 1 group, no alarm can be set for the other groups.

- **Record information**

Status of a recorded alarm

Trig	It shows a bit is in a specified alarm status.
Rcv	It shows the status of a bit changes from a specified alarm status to a non-alarm status.
Ack	It shows a confirmation operation was performed on the screen.

### 6.20.8 Types of Alarm Parts

Click **Widgets Add to page** from the tool bar at the bottom of the screen, open the parts selection menu, and select Alarm History.

Widgets ▲ 100%  
Add to page Zoom



- Level graph
- Integration Graph
- SD Card Logging Graph
- Data
- Table
- Message
- Alarms History**
- Gantt Chart

Select a representative design of a new "alarm" part.

1. Time order

The alarm status of a PLC device is saved in the PLC internal memory, and data is displayed in chronological order.

Date	Time	Event	No	Message
2000/08/21	16:06:24	Trig	No.1	Alarm1
2000/08/21	16:06:25	Rcv	No.1	Alarm1
2000/08/21	16:06:26	Trig	No.2	Alarm1
2000/08/21	16:06:27	Trig	No.0	Alarm1
2000/08/21	16:06:30	Trig	No.3	Alarm1
2000/08/21	16:06:32	Rcv	No.0	Alarm1
2000/08/21	16:06:33	Rcv	No.3	Alarm1
2000/08/21	16:06:33	Rcv	No.2	Alarm1

start stop refresh ack delete csv clear ENG ▼

2. Active alarm list

Alarm messages in a specified alarm status are displayed. The alarms currently active can be confirmed.

No	Message
No.1	AlarmG1-01
No.2	AlarmG1-02
No.27	AlarmG1-27

start stop refresh clear ENG ▼

3. Frequency order

## 6.20 Alarm History

The number of "Trig" instances in accumulated data is displayed for each alarm number in descending order of the number of "Trig" instances.

The alarms that are currently output are counted. (The past alarms that are not output are not counted.)

FREQUENCY ORDER		
No	Message	Count
No.13	AlarmG1-13	1
No.3	AlarmG1-03	2
No.0	AlarmG1-00	2
No.1	AlarmG1-01	3
No.2	AlarmG1-02	3
No.23	AlarmG1-23	7

start
 


 ENG ▼

### 6.20.9 Setting Method of Alarm History Part

#### Common settings

horizontal position	<input type="text" value="207"/>
vertical position	<input type="text" value="116"/>
width	<input type="text" value="400"/>
height	<input type="text" value="240"/>
label	<input type="text" value="ah1"/>
security level	<input type="text" value="0"/>

Setting item	Options of values	Default	Description of setting item
horizontal position	Position from the top end of the screen	The first position where a part is arranged	Specify a position from the top end of the screen.
vertical position	Position from the left end of the screen	The first position where a part is arranged	Specify a position from the left end of the screen.
width	Width of a part.	400	Specify the width of a part.
height	Height of a part.	240	Specify the height of a part.
label	ahx	The value of x increases every time a part is arranged.	Specify a part name.
Security level	0 to 15	0	Specify the security level of a part.



**Group settings**

host address

network protocol

group number

Setting item	Options of values	Default	Description of setting item
host address	IP address	Global settings	Specify the IP address of the FP7 that data is acquired.
network protocol	Global settings/m7	Global settings	Specify a protocol for acquiring data.
group number	0 to 7	0	Specify a group number to be monitored for the alarm history.

**Error handling**

OPHR71 max retries

Setting item	Options of values	Default	Description of setting item
OPHR71 max retries	0 to 10, no limit	0	Set the permitted number of simultaneous multiple read errors (exclusive control errors).

**Alarm settings**

alarm details

1 Edit ➔

- trg. text color
- trg. background color
- rcv. text color
- rcv. background color
- ack. text color
- ack. background color

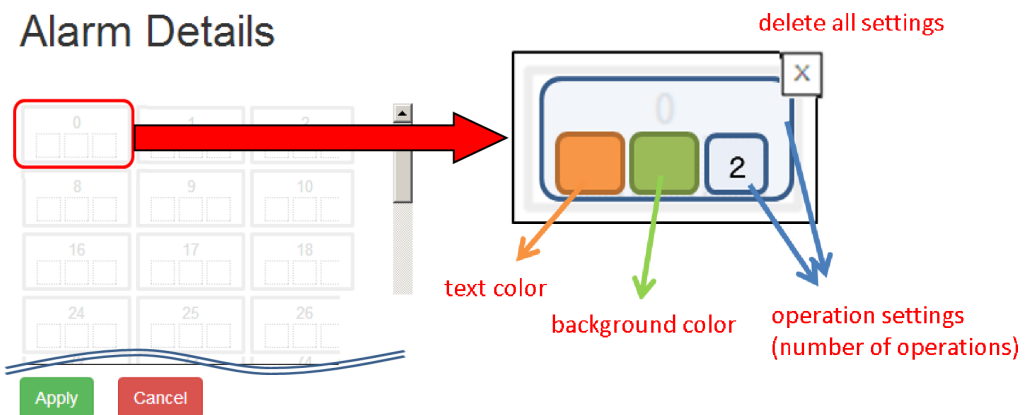
### Alarm Details

Setting item	Options of values	Default	Description of setting item
alarm details	Edit	Edit	Specify an operation setting for each alarm number. (0 to 511 can be set.)
text color	Color setting	No setting	Specify the color of characters displayed when an arbitrarily set operation occurs.
background color	Color setting	No setting	Specify the color of a background displayed when an arbitrarily set operation occurs.

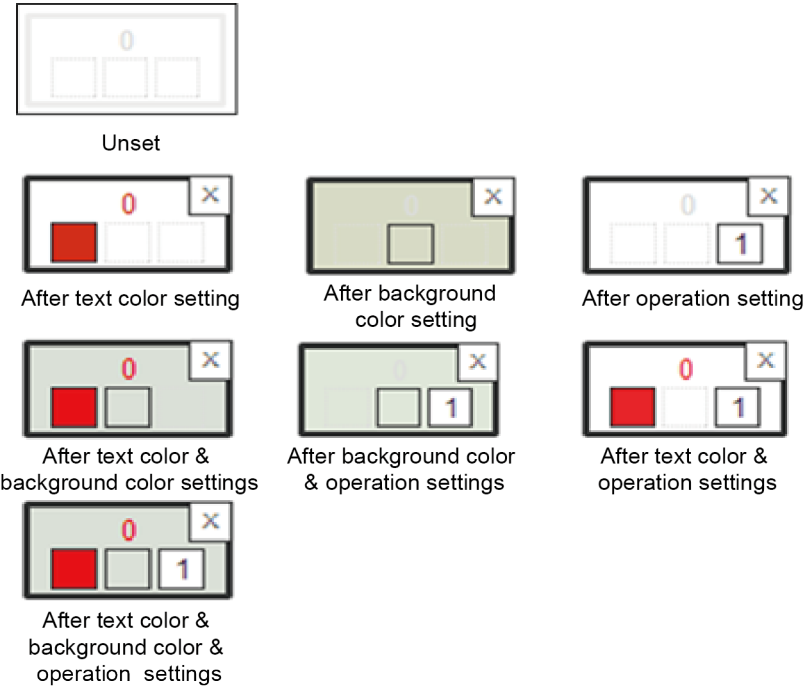
## 6.20 Alarm History

Setting item	Options of values	Default	Description of setting item
Operation settings	Bit set/Word set/Digital set/Page switch/Audio playback/HTTP GET/HTTP POST	No setting	Set an operation when an arbitrary alarm number is ON.
trg. text color	Color setting/Transparent	yellow	Specify the color of characters displayed when a trigger condition is met.
trg. background color	Color setting/Transparent	red	Specify the color of a background displayed when a trigger condition is met.
rcv. text color	Color setting/Transparent	black	Specify the color of characters displayed when an alarm is recovered.
rcv. background color	Color setting/Transparent	orange	Specify the color of a background displayed when an alarm is recovered.
ack. text color	Color setting/Transparent	black	Specify the color of characters when an alarm is confirmed.
ack. background color	Color setting/Transparent	white	Specify the color of a background when an alarm is confirmed.

### Alarm Details

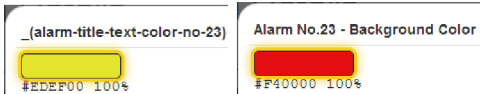


The font color, background color, and screen switching can be set for each alarm.  
The UI changes according to the settings as follows.

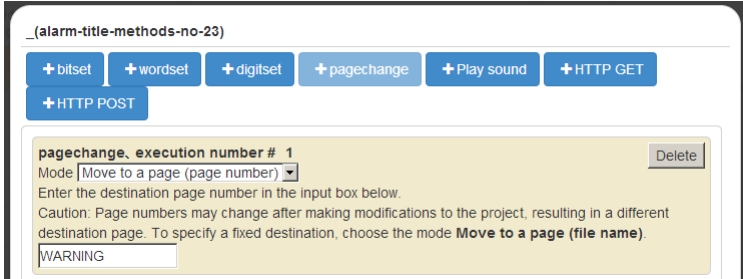


**Example of screen switching**

- 1. Specify a background color and a font color for a target alarm number.




- 2. Specify an operation for a target alarm number.



- 3. By pressing the target alarm number displayed when the operation is performed, the screen is switched or a specific device turns ON/OFF according to the operation setting specified in the step 2.

## 6.20 Alarm History

FREQUENCY ORDER		
No	Message	Count
No.23	AlarmGI-23	7
No.2	AlarmGI-02	5
No.1	AlarmGI-01	5
No.27	AlarmGI-27	2
No.0	AlarmGI-00	2
No.3	AlarmGI-03	2
No.13	AlarmGI-13	1



ERROR NO.00

# EMERGENCY

# STOP

RETURN TO TOP

start
  stop
  refresh
 
ENG ▾

### Operation mode

mode Chronological Order ▾

- Chronological Order
- Active Alarms
- Frequency Order

Setting item	Options of values	Default	Description of setting item
Mode	Chronological Order / Active Alarms / Frequency Order	Chronological order	Specify the operation of the alarm history.

### Display order setting

display order Ascending ▾

- Ascending
- Descending

Setting item	Options of values	Default	Description of setting item
display order	Ascending / Descending	Ascending	Specify the display order when alarms occur.

- Mode: Chronological Order
  - Ascending: Sorts the display in the ascending order of the time of occurrence. (A new alarm is added at the bottom.)
  - Descending: Sorts the display in the descending order of the time of occurrence. (A new alarm is added at the top.)
- Mode: Active Alarms
  - Ascending: Sorts the display in the ascending order of active alarm numbers.
  - Descending: Sorts the display in the descending order of active alarm numbers.
- Mode: Frequency Order
  - Ascending: Sorts the display in the ascending order of the number of times of occurrence.
  - Descending: Sorts the number of times of occurrence is in descending order.

### Language setting

language count	<input type="text" value="2"/>
language menu	<input type="text" value="show"/>
initial language no.	<input type="text" value="0"/>
language no.0	<input type="text" value="ENG"/>
language no.1	<input type="text" value="CHN"/>

Setting item	Options of values	Default	Description of setting item
language count	1/2	1	Specify the number of displayed languages. (Up to two languages can be registered.)
language menu	show/hide	show	Specify whether to show or hide the language change switch. (This is settable only when the number of displayed languages is two.)
initial language no.	0/1	0	Specify a language number that is displayed when the browser is started. (This is settable only when the number of displayed languages is two.)
language no. 0	Character input	Lang.#0	Input a displayed language.
language no. 1	Character input	Lang.#1	Input a displayed language. (This is settable only when the number of displayed languages is two.)

## Refresh mode

refresh mode	<input type="text" value="Manual"/>
--------------	-------------------------------------

Setting item	Options of values	Default	Description of setting item
refresh mode	Automatic / Manual	Manual	Specify a timing to update alarm history parts. (In the case of Automatic, a button to control the update is added.)

Automatic: Detects the update of the alarm history automatically and acquires the history.

Manual: Acquires the history only when the [Refresh] button is pressed.

## Operation button

## 6.20 Alarm History

text size	Default (14px) <input type="button" value="v"/>
[start] visibility	Visible <input type="button" value="v"/>
[stop] visibility	Visible <input type="button" value="v"/>
[refresh] visibility	Visible <input type="button" value="v"/>
[ack.] visibility	Visible <input type="button" value="v"/>
[delete] visibility	Visible <input type="button" value="v"/>
[CSV] visibility	Visible <input type="button" value="v"/>
[clear history] visibility	Visible <input type="button" value="v"/>

Setting item	Options of values	Default	Description of setting item
text size	Default (14px) 8 to 100 px	Default (14px)	Specify the character size of Operation button.
[start] visibility	Visible/Hidden	Visible	Specify whether to show or hide the start button. Operation: Starts the alarm history.
[stop] visibility	Visible/Hidden	Visible	Specify whether to show or hide the stop button. Operation: Stops the alarm history.
[refresh] visibility	Visible/Hidden	Visible	Specify whether to show or hide the refresh button. Operation: Refreshes the display of the alarm history.
[ack.] visibility	Visible/Hidden	Visible	Specify whether to show or hide the ack. button. Operation: Confirms the alarm history.
[delete] visibility	Visible/Hidden	Visible	Specify whether to show or hide the delete button. Operation: Deletes the alarm history.
[CSV] visibility	Visible/Hidden	Visible	Specify whether to show or hide the CSV button. Operation: Outputs the alarm history to a CSV file.
[clear history] visibility	Visible/Hidden	Visible	Specify whether to show or hide the clear history button. Operation: Delete the alarm history of a displayed group.

[start] label	<input type="text" value="start"/>
[stop] label	<input type="text" value="stop"/>
[refresh] label	<input type="text" value="refresh"/>
[ack.] label	<input type="text" value="ack"/>
[delete] label	<input type="text" value="delete"/>
[CSV] label	<input type="text" value="csv"/>
[clear history] label	<input type="text" value="clear"/>

Setting item	Options of values	Default	Description of setting item
[start] label	Character input	start	Input a displayed name of the start button.
[stop] label	Character input	stop	Input a displayed name of the stop button.

Setting item	Options of values	Default	Description of setting item
[refresh] label	Character input	refresh	Input a displayed name of the refresh button.
[ack.] label	Character input	ack	Input a displayed name of the ack. button.
[delete] label	Character input	delete	Input a displayed name of the delete button.
[CSV] label	Character input	csv	Input a displayed name of the CSV button.
[clear history] label	Character input	clear	Input a displayed name of the clear history button.

## Header settings #0

These are the settings for the header of a CSV file to which the alarm history is output. They can be set for each language.

- The header settings #1 can be set when the number of the displayed languages is two.
- The initial values and settable items for #0 and #1 are the same.

date header #1	<input type="text" value="Date"/>
time header #1	<input type="text" value="Time"/>
event header #1	<input type="text" value="Event"/>
alarm no. header #1	<input type="text" value="No"/>
message header #1	<input type="text" value="Message"/>

Setting item	Options of values	Default	Description of setting item
date header #	Character input	Date	Input a displayed name of the date header.
time header #	Character input	Time	Input a displayed name of the time header.
event header #	Character input	Event	Input a displayed name of the event header.
alarm no. header #	Character input	No	Input a displayed name of the alarm no. header.
message header #	Character input	Message	Input a displayed name of the message header.

Date                      Time                      Event                      Alarm No.                      Message

Date	Time	Event	Ack	No	Message
2019/6/12	14:42:03	Ack_G1	Acknowledged	14	AlarmG1-14
2019/6/12	14:41:59	Ack_G1	Acknowledged	12	AlarmG1-12
2019/6/12	14:41:55	TrigG1		22	AlarmG1-22
2019/6/12	14:41:54	TrigG1		23	AlarmG1-23
2019/6/12	14:41:54	TrigG1		14	AlarmG1-14
2019/6/12	14:41:52	TrigG1		12	AlarmG1-12

## Frame Format

Frame can be deleted by pressing the "disable frame" button.

## 6.20 Alarm History

frame format

fill color

border style

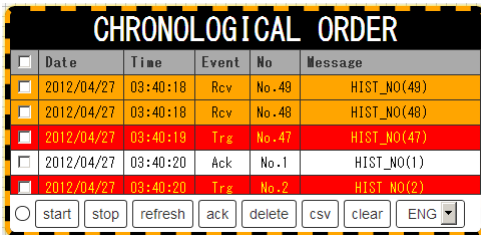
border color

border radius

border width

Setting item	Options of values	Default	Description of setting item
fill color	Color setting/Transparent	white	Specify the background color of the area where a title of an alarm history part is input.
border style	none/solid/dashed/dotted/double/groove/ridge/inset/outset		Specify the style of the frame of an alarm history part.
border color	Color setting/Transparent	black	Specify the color of the frame of an alarm history part.
border radius	0 to 16/18/20/24/28/32/36/40/44/48/54/60/66/72/80/88/96/100px	10px	Specify the rounded corners of the frame of an alarm history part. The smaller the value is, the nearer the corner angle approaches a right angle.
border width	Hide/1 to 16/18/20/24/28/32/36/40/44/48/54/60/66/72/80/88/96/100px	2px	Specify the width of the frame of an alarm history part.

- Example of frame setting



### Title

text

alignment

color

title size

title font

Setting item	Options of values	Default	Description of setting item
text	Character input	No setting	Input a title of an alarm history part. (The input text is displayed on the upper part of the part.)
alignment	left/center/right/justify	center	Specify the position of the title.
color	Color setting	black	Specify the text color of the title.
title size	8 to 16/18/20/24/28/32/36/40/44/48/54/60/66/72/80/88/96/100px/ Set arbitrarily	32px	Specify the character size of the title.



Setting item	Options of values	Default	Description of setting item
title font	MS Gothic/Digital/Led/Pixels/Retro/ MS PGothic/Meiryō/Georgia/Palatino Linotype/Times New Roman/ Arial/Arial Black/Comis Sans MS/ Impact/Lucida Sans Unicode/ Tahoma/Trebuchet MS/Verdana/ Courier New/Lucida Console	MS Gothic	Specify the character font of the title.

## Text format

The text format for the column of an alarm history part is set.

alignment

decoration  italic  bold

text size

text font

Setting item	Options of values	Default	Description of setting item
alignment	left/center/right/justify	center	Specify the position of the column.
decoration	italic/bold	No setting	Specify the style of the text of the column.
text size	8 to 16/18/20/24/28/32/36/40/44/48/ 54/60/66/72/80/88/96/100px/ Set arbitrarily	14px	Specify the character size of the column.
text font	MS Gothic/Digital/Led/Pixels/Retro/ MS PGothic/Meiryō/Georgia/ Palatino Linotype/Times New Roman/Arial/Arial Black/Comis Sans MS/Impact/Lucida Sans Unicode/ Tahoma/Trebuchet MS/ Verdana/Courier New/Lucida Console	MS Gothic	Specify the character font of the column.

### 6.20.10 Browser Screen

- Time order

## 6.20 Alarm History

### CHRONOLOGICAL ORDER

	<input type="checkbox"/>	Date	Time	Event	No.	Message
(1)	<input type="checkbox"/>	2000/00/21	16:00:24	Trig	No.1	Alarm1
	<input type="checkbox"/>	2000/08/21	16:06:25	Rcv	No.1	Alarm1
	<input type="checkbox"/>	2000/08/21	16:06:26	Trig	No.2	Alarm1
(2)	<input type="checkbox"/>	2000/08/21	16:06:27	Trig	No.0	Alarm1
	<input type="checkbox"/>	2000/08/21	16:06:30	Trig	No.3	Alarm1
	<input type="checkbox"/>	2000/08/21	16:06:32	Rcv	No.0	Alarm1
	<input type="checkbox"/>	2000/08/21	16:06:33	Rcv	No.3	Alarm1
	<input type="checkbox"/>	2000/08/21	16:06:33	Rcv	No.2	Alarm1




(3)  
  (4)  
  (5)  
  (6)  
  (7)  
  (8)  
  (9)  
  (10)  
  (11)  
  (12)

No.	Description
(1)	Pressing this checkbox selects all checkboxes.
(2)	When selecting a checkbox, only Ack and Delete are referred, and the acknowledgment or delete is performed for the checked item.
(3)	It indicates the status of the start/stop of the alarm history.
(4)	"start" starts the alarm history.
(5)	"stop" stops the alarm history.
(6)	It indicates the current update status when selecting the automatic update.
	<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 30px; border: 1px solid black; margin-right: 5px;"> <div style="background-color: black; width: 10px; height: 10px; margin: 5px;"></div> <div style="background-color: black; width: 10px; height: 10px; margin: 5px;"></div> </div> <div>Automatic update in progress</div> </div>
	<div style="display: flex; align-items: center;"> <div style="width: 30px; height: 30px; border: 1px solid black; margin-right: 5px;"> <div style="background-color: black; width: 10px; height: 10px; margin: 5px;"></div> </div> <div>Automatic update stops</div> </div>
(7)	"refresh" updates the display of the alarm history.
(8)	"ack" sends the acknowledgment notice of the alarm history to FP7.
(9)	"delete" deletes the alarm histories of the selected checkboxes.
(10)	"csv" outputs the alarm history information to a csv file.
(11)	"clear" deletes all alarm histories of the displayed group.
(12)	The language can be changed during the execution of the alarm history.



- Active alarm list

## PROGRESS ORDER

No	Message
No.1	AlarmG1-01
No.2	AlarmG1-02
No.27	AlarmG1-27

 start
 stop
 refresh
clear
ENG ▾




(1) (2) (3) (4) (5) (6) (7)

No.	Description
(1)	It indicates the status of the start/stop of the alarm history.
(2)	"start" starts the alarm history.
(3)	"stop" stops the alarm history.
(4)	<div style="display: flex; align-items: center;">                  Automatic update in progress             </div>
	<div style="display: flex; align-items: center;">                  Automatic update stops             </div>
(5)	"refresh" updates the display of the alarm history.
(6)	"clear" deletes all alarm histories of the displayed group.
(7)	The language can be changed during the execution of the alarm history.

- Frequency order

## FREQUENCY ORDER



No	Message	Count
No.13	AlarmG1-13	1
No.3	AlarmG1-03	2
No.0	AlarmG1-00	2
No.1	AlarmG1-01	3
No.2	AlarmG1-02	3
No.23	AlarmG1-23	7

 start
 stop
 refresh
clear
ENG ▾

(1) (2) (3) (4) (5) (6) (7)

No.	Description
(1)	It indicates the status of the start/stop of the alarm history.

## 6.20 Alarm History

No.	Description
(2)	"start" starts the alarm history.
(3)	"stop" stops the alarm history.
(4)	It indicates the current update status when selecting the automatic update.
	 Automatic update in progress
	 Automatic update stops
(5)	"refresh" updates the display of the alarm history.
(6)	"clear" deletes all alarm histories of the displayed group.
(7)	The language can be changed during the execution of the alarm history.

### 6.20.11 List of Errors

Code	Name	Description of error
41	Format error	Command in a different format was received.
42	Not-support error	An unsupported command was received.
60	Parameter error	Specified parameter does not exist, or cannot be used.
61	Data error	There is an error in the contact, data area, data number, size, range or format specification.
63	PROG. error	Operation history parts cannot be operated in PROG.
71	Simultaneous multiple read error (exclusive control error)	Executed a command that cannot be processed simultaneously with the command already in process.
98	Operation history active error	Active operation history group exists.

### 6.20.12 Properties of Alarm History Parts

#### ■ Properties

Property	Description
common settings	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Common parameters

Property	Description
security level	X coordinate of the upper left corner of a part.
group settings	Group settings
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
group number (0 to 7)	A group number to be monitored for the alarm history
error handling	Error handling setting
OPHR71 max retries	The permitted number of simultaneous multiple read errors (exclusive control errors)
alarm settings	Alarm settings
alarm details	Operation setting for each alarm number
trg. text color	Color of characters displayed when a trigger condition is met
trg. background color	Color of a background displayed when a trigger condition is met
rcv. text color	Color of characters displayed when an alarm is recovered
rcv. background color	Color of a background displayed when an alarm is recovered
ack. text color	Color of characters when an alarm is confirmed
ack. background color	Color of a background when an alarm is confirmed
operation mode	Set alarm history operation mode.
mode	Operation of the alarm history
display order setting	Set the order in which alarm occurrences are displayed.
display order	Order in which alarm occurrences are displayed
language setting	Settings for displayed language
language count	Number of displayed languages
language no. 0	A displayed language
refresh mode	Refresh mode setting
refresh mode	A timing to update alarm history parts
operation button	Operation button settings
text size	Character size of operation button
[start] visibility	Whether to show or hide the start button
[stop] visibility	Whether to show or hide the stop button
[refresh] visibility	Whether to show or hide the refresh button
[ack.] visibility	Whether to show or hide the ack. button
[delete] visibility	Whether to show or hide the delete button
[CSV] visibility	Whether to show or hide the CSV button
[clear history] visibility	Whether to show or hide the clear history button.
[start] label	A displayed name of the start button
[stop] label	A displayed name of the stop button
[refresh] label	A displayed name of the refresh button
[ack.] label	A displayed name of the ack. button

## 6.20 Alarm History

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Property	Description
[delete] label	A displayed name of the delete button
[CSV] label	A displayed name of the CSV button
[clear history] label	A displayed name of the clear history button
header settings	Header settings
date header	A displayed name of the date header
time header	A displayed name of the time header
event header	A displayed name of the event header
alarm no. header	A displayed name of the alarm no. header
message header	A displayed name of the message header
frame format	Frame settings
fill color	Background color
border style	Border type
border color	Border color
border radius	Rounded corners of the frame
border width	Width of a border
title	Title setting of a graph
text	Title character string
alignment	Title arrangement
color	Title color
title size	Title size
title font	Title font
text format	Text settings
alignment	Horizontal direction display position of character strings
decoration	Modification of the character string
text size	Size of the character string
text font	Font of the character string

## 6.21 Gantt Chart

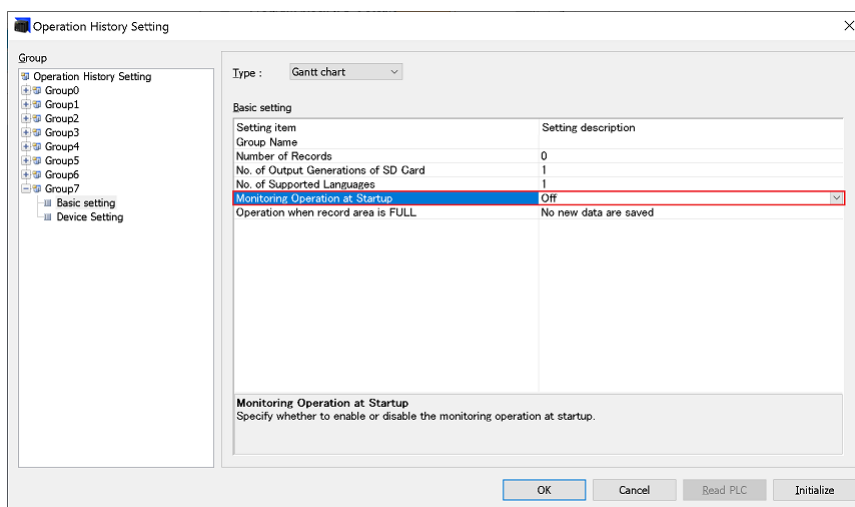
The history can be recorded during the RUN only. It monitors the statuses of bit devices of the PLC and records them in the non-volatile memory within the FP7.

When even one of the bit devices registered in a group changes, the values and date information of all the registered monitoring devices are recorded.

### 6.21.1 Start / Stop

It can be started / stopped in a group unit by the following three methods. The histories at the time of the start/stop can also be saved.

- **Configuration settings**



Setting item	Setting	Description
Monitoring Operation at Startup	Off	The monitoring operation is not automatically started when switching the mode to RUN.
	On	The monitoring operation is automatically started when switching the mode to RUN.

- **Operation instructions**

OPHST: Start the operation history function.

OPHED: Stop the operation history function.

- **Command from a web browser**

Display during stop



Display during start



## 6.21 Gantt Chart

### 6.21.2 Clearing Histories

Histories can be cleared in a group unit by the following two methods.

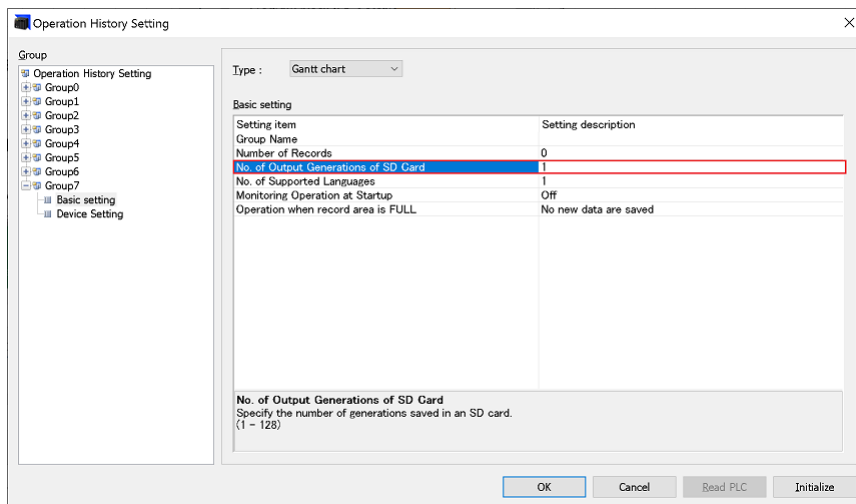
- **Operation instruction**  
OPHCLR: Clear the operation history.
- **Command from a web browser**



### 6.21.3 CSV Output

Only the data saved in the non-volatile memory within the FP7 can be displayed on Gantt chart parts. CSV file data cannot be displayed.

- CSV that is output by the operation instruction: ASCII or SHIFT-JIS
- CSV that is output on a browser: UTF-8



Setting item	Setting	Description
No. of Output Generations of SD Card	1 to 128	The number of generations of CSV to be output to an SD card is specified.

(Note 1) CSV files of the number of generations are created. When creating files more than the limit of the number of generations, the oldest file is deleted after the determination of the latest file.

CSV files can be saved by the following method.

- Recorded data of the Gantt chart is saved in an SD card in the CSV format for each group using the operation instruction.  
OPHSAVE: Save the operation history in CSV.
- By pressing the [CSV output] button arranged on a Gantt chart part, CSV files can be saved on a device such as a PC on which a web browser is loaded. For outputting CSV files when

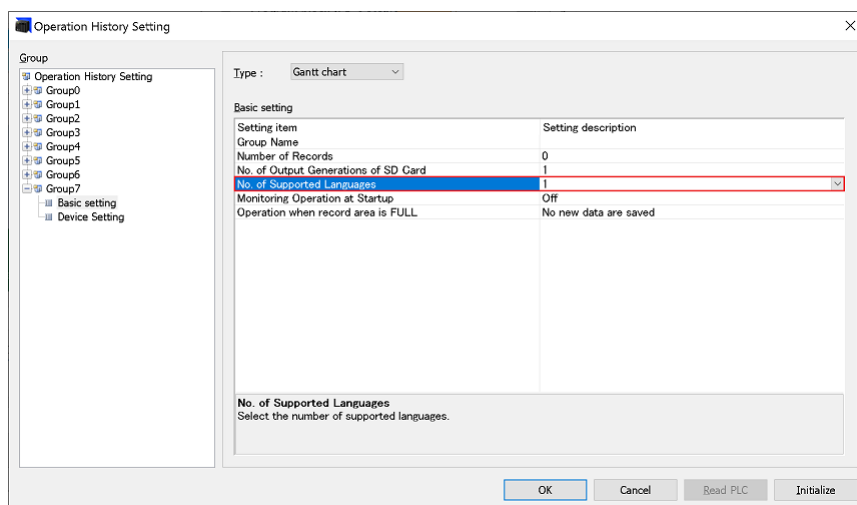


the manual update is set, perform the CSV output after pressing the [Manual update] button. Only the history data displayed on the screen is output in the CSV format.

### 6.21.4 Switching Character Strings

Up to two patterns of message character strings can be registered for FPWIN GR7 or FPWIN Pro7.

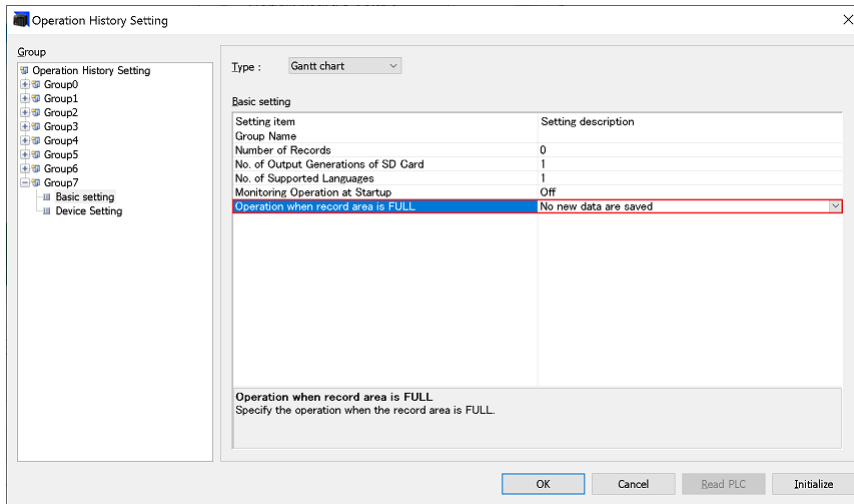
Registered character strings can be switched on a web part.



Setting item	Setting	Description
No. of Supported Languages	1 to 2	The number of supported languages is specified.

### 6.21.5 When Memory Is Full

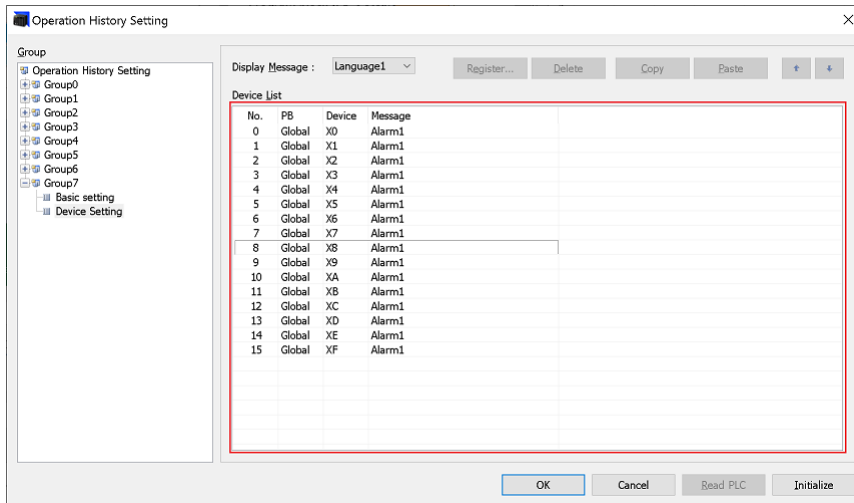
## 6.21 Gantt Chart



Setting item	Setting	Description
Operation when record area is FULL	No new data are saved	When the record area is full, the recording stops.
	Save new data, delete last data	When the record area is full, older data are sequentially overwritten and the recording continues.

Up to 16 bit devices can be registered per group.

Message character strings can be specified for each bit device. (Up to 32 bytes)



### 6.21.6 Gantt Chart Display

Click **Widgets Add to page** from the tool bar at the bottom of the screen, open the parts selection menu, and select Gantt Chart.

Widgets ▲  
Add to page

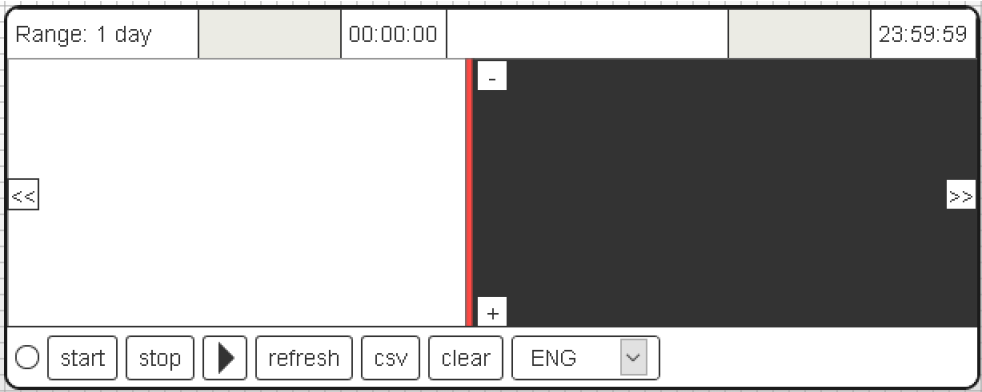
100%  
Zoom



- Level graph
- Integration Graph
- SD Card Logging Graph
- Data
- Table
- Message
- Alarms History
- Gantt Chart**

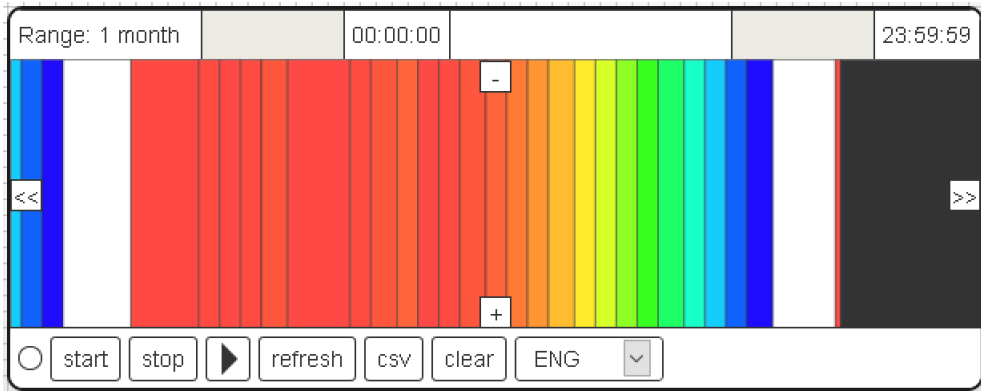
**6.21.7 Example of Display**

**One-day view**

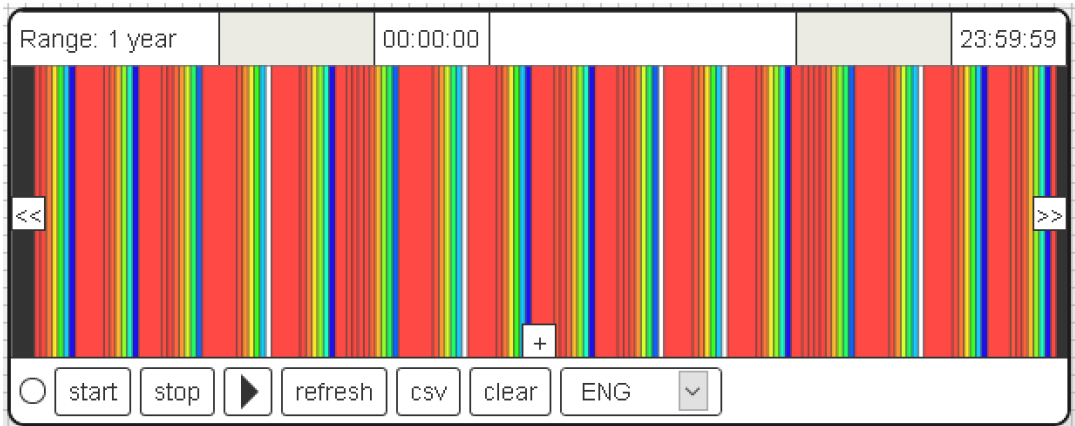


## 6.21 Gantt Chart

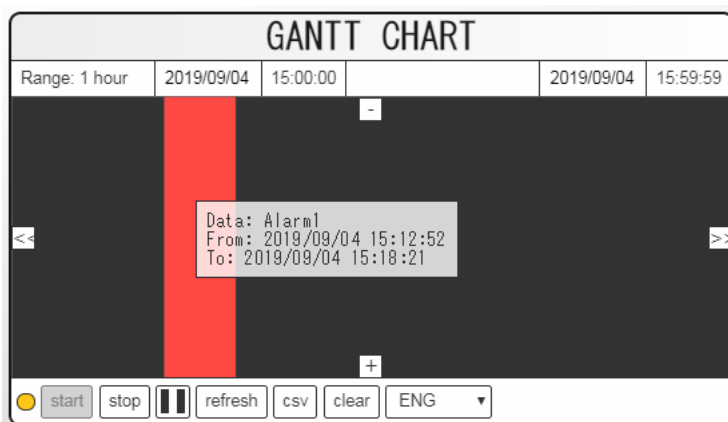
### One-month view



### One-year view



- The horizontal axis is time. One day, one month, and one year can be set. Each start and stop can be set for day, month, and year.
  - For day: Start time and end time
  - For month: Start date and end date
  - For year: Start month and end month
- Displayed date and time can be specified. If not specified, the range including the current time is displayed.
  - \* The current time is acquired from the PLC not PC.
- When the current time is within the displayed time range, the display is up to the current time.
- The setting for the number of divisions of the scale of the time axis can be selected from Automatic and Manual. In the case of the manual setting, the number of divisions can be specified between 2 to 30.
- The record area for each group can be deleted.



- Refreshing the display
  - A timing to refresh the display can be selected from "Automatic" and "Manual".
  - Automatic: Automatically refreshes the display of the Gantt chart history.
  - Manual: Refreshes the display of the Gantt chart history only when the [Refresh] button is pressed.

### 6.21.8 Display Colors of Data

- The priority order of monitored devices for each group can be set. When multiple bits are ON, colors corresponding to the priority order of monitored devices are displayed. The priority order is from high to low in the order registered by FPWIN GR7 (0 to 15).
  - \* A color when all target devices are OFF can also be set.

Example) When display colors are registered as shown below

priority 0	R0: Emergency stop	
priority 1	R1: Missing parts	
priority 2	R2: Normal operation	

#### Progress →

R0	OFF	OFF	OFF	ON	OFF	ON	ON	ON
R1	OFF	OFF	ON	OFF	ON	ON	OFF	ON
R2	OFF	ON	OFF	OFF	ON	OFF	ON	ON
Gantt Chart display								

- Depending on the number of displayable dots of a displayed device, one dot may contain several data.
  - In such case, colors vary according to the priority order of the registration of data.
  - When a high-priority monitored device is ON, its color is preferentially displayed.
- Details are displayed by a tool tip so that colors and the corresponding data can be distinguished on the browser.
  - (The times when monitored data was occurred and recovered are also displayed.)

## 6.21 Gantt Chart

### 6.21.9 Setting Method of Gantt Chart

#### Common settings

horizontal position	<input type="text" value="50"/>
vertical position	<input type="text" value="30"/>
width	<input type="text" value="540"/>
height	<input type="text" value="300"/>
label	<input type="text" value="gt2"/>
security level	<input type="text" value="0"/>

Setting item	Options of values	Default	Description of setting item
horizontal position	Position from the top end of the screen	The first position where a part is arranged	Specify a position from the top end of the screen.
vertical position	Position from the left end of the screen	The first position where a part is arranged	Specify a position from the left end of the screen.
width	Width of a part.	400	Specify the width of a part.
height	Height of a part.	240	Specify the height of a part.
label	gtx	The value of x increases every time a part is arranged.	Specify a part name.
Security level	0 to 15	0	Specify the security level of a part.

#### Group settings

host address	<input type="text" value="Global settings"/>
network protocol	<input type="text" value="Global settings"/>
group number	<input type="text" value="7"/>

Setting item	Options of values	Default	Description of setting item
host address	IP address	Global settings	Specify the IP address of the FP7 that data is acquired.
network protocol	Global settings/m7	Global settings	Specify a protocol for acquiring data.
group number	0 to 7	0	Specify a group number to be monitored for the Gantt chart.

#### Error handling

OPHR71 max retries



Setting item	Options of values	Default	Description of setting item
OPHR71 max retries	0 to 10, no limit	0	Set the permitted number of simultaneous multiple read errors (exclusive control errors).

## Display settings

display range

first hour

last hour

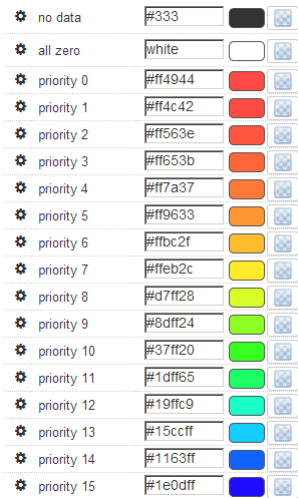
divisions

nb. devices

Setting item	Options of values	Default	Description of setting item	
display range	1 day/1 month/1 year	1 day	Set the range to be displayed in the Gantt chart.	
first hour	1 day	0 to 23	0	It can be set only when the display range is set to "1 day".
	1 month	1 to 31	1	It can be set only when the display range is set to "1 month".
	1 year	1 to 12	1	It can be set only when the display range is set to "1 year".
last hour	1 day	0 to 23	23	It can be set only when the display range is set to "1 day".
	1 month	1 to 31	31	It can be set only when the display range is set to "1 month".
	1 year	1 to 12	12	It can be set only when the display range is set to "1 year".
divisions	none/auto/ 2 to 30	auto	Set the number of time divided to be displayed in the Gantt chart.	
nb. devices	1 to 16	16	Set the number of devices to be monitored in the Gantt chart.	

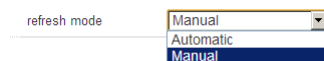
- Settings related to whole displays

## 6.21 Gantt Chart



Setting item	Options of values	Default	Description of setting item
no data	Color selection/ Transparent	black	Set a color for the case where no data exists in a target device.
all zero	Color selection/ Transparent	white	Set a color for the case where all bits are OFF.
priority 0	Color selection/ Transparent	dark red	Set colors for priority devices. The smaller the number is, the higher the priority becomes.
priority 1		red	
priority 2		pink	
priority 3		dark pink	
priority 4		dark orange	
priority 5		orange	
priority 6		golden yellow	
priority 7		yellow	
priority 8		greenish yellow	
priority 9		light green	
priority 10		green	
priority 11		dark green	
priority 12		blue green	
priority 13		light blue	
priority 14		blue	
priority 15		purple	

## Refresh mode





Setting item	Options of values	Default	Description of setting item
refresh mode	Automatic / Manual	Manual	Specify a timing to update Gantt chart parts. (In the case of Automatic, a button to control the update is added.)

Automatic: Detects the update of the history of Gantt chart automatically and acquires the history.

Manual: Acquires the history only when the [Refresh] button is pressed.

## Details display

The settings for the area displaying the details of the history of the Gantt chart are specified. The details display is shown by tapping the area of the screen or pointing a cursor to it.

font size	12px
text font	MS Gothic
alignment	left
decoration	<input type="checkbox"/> italic <input type="checkbox"/> bold <input type="checkbox"/> underline <input type="checkbox"/> overline <input type="checkbox"/> line-through
✳ text color	#333
✳ fill color	rgba(255,255,255,1)
border width	1px
✳ border color	#333

Setting item	Options of values	Default	Description of setting item
font size	8 to 16/18/20/24/28/32/36/40/44/48/54/60/66/72/80/88/96/100px/ Set arbitrarily	12px	Set a text size.
text font	MS Gothic/Digital/Led/Pixels/Retro/ MS PGothic/Meiryo/Georgia/ Palatino Linotype/Times New Roman/Arial/Arial Black/Comis Sans MS/Impact/Lucida Sans Unicode/ Tahoma/Trebuchet MS/ Verdana/Courier New/Lucida Console	MS Gothic	Set a text font.
alignment	left/center/right/justify	center	Set a layout.
decoration	italic/bold/underline/overline/line-through	No setting	Set text decorations.
text color	Color setting	black	Set a text color.
fill color	Color setting/Transparent	white	Set a background color.
border width	Hide/1 to 16/18/20/24/28/32/36/40/44/48/54/60/66/72/80/88/96/100px	1px	Set the width of a border.
border color	Color setting/Transparent	black	Set the color of a border.

## Language setting

## 6.21 Gantt Chart

language count

language menu

initial language no.

language no. 0

language no. 1

Setting item	Options of values	Default	Description of setting item
language count	1/2	1	Specify the number of displayed languages. (Up to two languages can be registered.)
language menu	show/hide	show	Specify whether to show or hide the language change switch. (This is settable only when the number of displayed languages is two.)
initial language no.	0/1	0	Specify a language number displayed in the default state. (This is settable only when the number of displayed languages is two.)
language no. 0	Character input	Lang.#0	Input a displayed language.
language no. 1	Character input	Lang.#1	Input a displayed language. (This is settable only when the number of displayed languages is two.)

### Operation button

text size

[start] visibility

[stop] visibility

[refresh] visibility

[CSV] visibility

[clear history] visibility

Setting item	Options of values	Default	Description of setting item
text size	Default (14px) 8 to 100 px	Default (14px)	Specify the character size of Operation button.
[start] visibility	Visible/Hidden	Visible	Specify whether to show or hide the start button. Operation: Starts monitoring the Gantt chart.
[stop] visibility	Visible/Hidden	Visible	Specify whether to show or hide the stop button. Operation: Stops monitoring the Gantt chart.
[refresh] visibility	Visible/Hidden	Visible	Specify whether to show or hide the refresh button. Operation: Updates the display of the Gantt chart.
[CSV] visibility	Visible/Hidden	Visible	Specify whether to show or hide the CSV button. Operation: Outputs the Gantt chart to a CSV file.
[clear history] visibility	Visible/Hidden	Visible	Specify whether to show or hide the clear history button.

Setting item	Options of values	Default	Description of setting item
			Operation: Deletes the Gantt chart of a displayed group.

[start] label

[stop] label

[refresh] label

[CSV] label

[clear history] label

Setting item	Options of values	Default	Description of setting item
[start] label	Character input	start	Input a displayed name of the start button.
[stop] label	Character input	stop	Input a displayed name of the stop button.
[refresh] label	Character input	refresh	Input a displayed name of the refresh button.
[CSV] label	Character input	csv	Input a displayed name of the CSV button.
[clear history] label	Character input	clear	Input a displayed name of the clear history button.

## Header settings #0

The setting for the header of a CSV file to which the Gantt chart is output. They can be set for each language.

- The header settings #1 can be set when the number of the displayed languages is two.
- The initial values and settable items for #0 and #1 are the same.

date header #0

time header #0

Setting item	Options of values	Default	Description of setting item
date header #	Character input	Date	Input a displayed name of the date header.
time header #	Character input	Time	Input a displayed name of the time header.

Date                      Time                      Event



Date	Time	Alarm1	Alarm2	Alarm3
2000/7/22	5:22:45	1	1	0
2000/7/22	5:22:49	1	1	1
2000/7/22	5:22:51	0	1	1
2000/7/22	5:22:52	1	1	1
2000/7/22	5:23:03	1	1	1
2000/7/22	5:23:45	1	1	1
2000/7/22	5:37:19	1	1	1
2000/7/22	5:37:30	0	1	1
2000/7/22	5:37:34	0	0	1
2000/7/22	5:37:35	0	0	0
2000/7/22	5:38:24	0	0	0
2000/7/22	5:41:08	1	0	0
2000/7/22	5:46:00	0	0	0


## Frame format



Frame can be deleted by pressing the [disable frame] button.

## 6.21 Gantt Chart

frame format

\* fill color   

border style  

\* border color   


border radius


border width

Setting item	Options of values	Default	Description of setting item
fill color	Color setting/Transparent	white	Specify the background color of the area where a title of a Gantt chart part is input.
border style	none/solid/dashed/dotted/double/groove/ridge/inset/outset		Specify the style of the frame of a Gantt chart part.
border color	Color setting/Transparent	black	Specify the color of the frame of a Gantt chart part.
border radius	0 to 16/18/20/24/28/32/36/40/44/48/54/60/66/72/80/88/96/100px	10px	Specify the rounded corners of the frame of a Gantt chart part. The smaller the value is, the nearer the corner angle approaches a right angle.
border width	Hide/1 to 16/18/20/24/28/32/36/40/44/48/54/60/66/72/80/88/96/100px	2px	Specify the width of the frame of a Gantt chart part.

## Title

text

alignment  

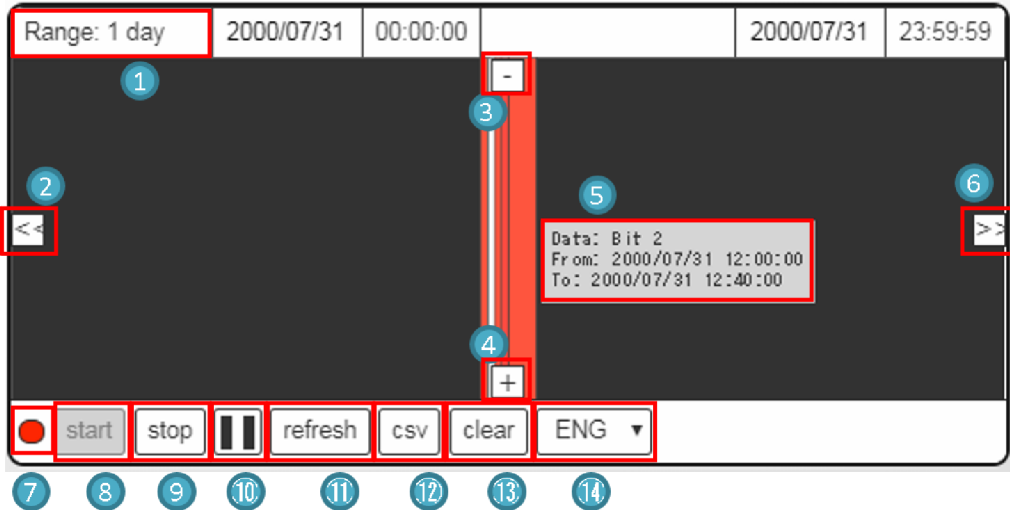
\* color  

title size

title font

Setting item	Options of values	Default	Description of setting item
text	Character input	No setting	Input a title of a Gantt chart part. (The input text is displayed on the upper part of the part.)
alignment	left/center/right/justify	center	Specify the position of the title.
color	Color setting	black	Specify the text color of the title.
title size	8 to 16/18/20/24/28/32/36/40/44/48/54/60/66/72/80/88/96/100px/ Set arbitrarily	32px	Specify the character size of the title.
title font	MS Gothic/Digital/Led/Pixels/Retro/ MS PGothic/Meiryo/Georgia/Palatino Linotype/Times New Roman/ Arial/Arial Black/Comis Sans MS/ Impact/Lucida Sans Unicode/ Tahoma/Trebuchet MS/Verdana/ Courier New/Lucida Console	MS Gothic	Specify the character font of the title.

**6.21.10 Browser Screen**



No.	Description			
(1)	Indicates the current display range. When the current time is within the displayed time range, the display is up to the current time.			
(2)	Refers to the previous range. Example) When the Gantt chart of March is displayed, it is changed to the display of February.			
(3)	Zooms out the display range. The display range is switched in the order of 5 minutes, 1 hour, 1 day, 1 month, and 1 year.			
(4)	Zooms in the display range. The display range is switched in the order of 1 year, 1 month, 1 day, 1 hour, and 5 minutes.			
(5)	The detail of data is displayed by tapping (pointing a cursor) on the area.			
(6)	Refers to the next range. Example) When the Gantt chart of March is displayed, it is changed to the display of April.			
(7)	It indicates the status of the start/stop of the Gantt chart.			
(8)	"start" starts the Gantt chart.			
(9)	"stop" stops the Gantt chart.			
(10)	It indicates the current update status when selecting the automatic update.			
	<table border="1"> <tr> <td></td> <td>Automatic update in progress</td> </tr> <tr> <td></td> <td>Automatic update stops</td> </tr> </table>		Automatic update in progress	
	Automatic update in progress			
	Automatic update stops			
(11)	"refresh" updates the display of the Gantt chart.			
(12)	"csv" outputs the Gantt chart information to a csv file.			
(13)	"clear" deletes all Gantt charts of the displayed group.			
(14)	The language can be changed during the execution of the Gantt chart.			

## 6.21 Gantt Chart

### 6.21.11 List of Errors

Code	Name	Description of error
41	Format error	Command in a different format was received.
42	NOT support error	An unsupported command was received.
60	Parameter error	Specified parameter does not exist, or cannot be used.
61	Data error	There is an error in the contact, data area, data number, size, range or format specification.
63	PROG. error	Operation history parts cannot be operated in PROG.
71	Simultaneous multiple read error (exclusive control error)	Executed a command that cannot be processed simultaneously with the command already in process.
98	Operation history active error	Active operation history group exists.

### 6.21.12 Properties of Gantt Chart Parts

#### ■ Properties

Property	Description
common settings	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Common parameters
security level	X coordinate of the upper left corner of a part.
group settings	Group settings
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
group number (0 to 7)	A group number to be monitored for the Gantt chart
error handling	Error handling setting
OPHR71 max retries	The permitted number of simultaneous multiple read errors (exclusive control errors)
display settings	Display settings
display range	A range to be displayed in the Gantt chart
first hour	Set starting day, month, or year for the day, month, or year specified in the display range.
last hour	Set ending day, month, or year for the day, month, or year specified in the display range.

Property	Description
divisions	The number of time divided to be displayed in the Gantt chart
nb. devices	Number of devices output to the csv file when the csv button on the Gantt chart is pressed.
no data	A color setting for the case where no data exists in a target device
all zero	A color setting for the case where all bits are OFF
priority 0 to 15	Color settings for priority devices
Refresh mode	Refresh mode setting
refresh mode	A timing to update Gantt chart parts
Details display	Settings for the area displaying details of the Gantt chart history
font size	Text size for details display
text font	Text font for details display
alignment	Horizontal position of details display
decoration	Text decoration for details display
text color	Text color for details display
fill color	Background color for details display
border width	Border width for details display
border color	Border color for details display
Language setting	Settings for displayed language
language count	Number of displayed languages
language no. 0	A displayed language
Operation button	Operation button settings
text size	Character size of operation button
[start] visibility	Whether to show or hide the start button
[stop] visibility	Whether to show or hide the stop button
[refresh] visibility	Whether to show or hide the refresh button
[CSV] visibility	Whether to show or hide the CSV button
[clear history] visibility	Whether to show or hide the clear history button.
[start] label	
[stop] label	A displayed name of the stop button
[refresh] label	A displayed name of the refresh button
[CSV] label	A displayed name of the CSV button
[clear history] label	A displayed name of the clear history button
Header settings	Header settings
date header	A displayed name of the date header
time header	A displayed name of the time header
Frame format	Frame settings
fill color	Background color
border style	Border type

## 6.21 Gantt Chart

---

Property	Description
border color	Border color
border radius	Rounded corners of the frame
border width	Width of a border
title	Title setting of a graph
text	Title character string
alignment	Title arrangement
color	Title color
title size	Title size
title font	Title font



## 6.22 Media Player Parts

By setting a moving image file to the part, a moving image can be played on browser. Playing, pausing and stopping a moving image can also be controlled by a PLC. Media player parts are not available for KW2M-X.

### 6.22.1 Setting Method



Setting	Description
media file	Specify a moving image file to be played.
autoplay	A moving image is automatically played when it is displayed on browser.
loop	A moving image is played repeatedly.
manual control	It enables to control the play of a moving image on the part.

(Note 1) Save moving image files to be played in the following folder in advance.  
 For details, refer to "[4.2 Folder Structure of Software Control Web Creator](#)".  
 Storage location of moving image files: WebCreator\WebCommons\img\video  
 The available formats of moving image files are as follows.

File format	File extension
MP4	***.mp4
OGV	***.ogv
WebM	***.webm

### 6.22.2 Cooperation with PLC

## 6.22 Media Player Parts



Setting	Description
play bit device	Specify a bit device for controlling the playback of moving image files.
play bit mode	Set "a" or "b".
pause bit device	Specify a bit device for controlling the pause of moving image files.
pause bit mode	Set "a" or "b".
stop bit device	Specify a bit device for controlling the stop of moving image files.
stop bit mode	Set "a" or "b".

### 6.22.3 Properties of Media Player Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500
network protocol	m7 (Fixed)
play bit device	Bit device for starting reproduction
play bit mode	a-contact / b-contact
pause bit device	Bit device for pausing reproduction
pause bit mode	a-contact / b-contact

---

Property	Description
stop bit device	Bit device for stopping reproduction
stop bit mode	a-contact / b-contact
playback	Control setting of play
media file	Moving image file to be played
autoplay	Play/stop for the initial display
loop	Repeat of play
manual control	Display/hide the control panel for play.

## 6.23 Camera Parts

### 6.23 Camera Parts

Camera parts can be used in cooperation with a network camera manufactured by Panasonic. The part can be moved to the preset position registered for a network camera according to the command of PLC as well as the manual operation from the part.

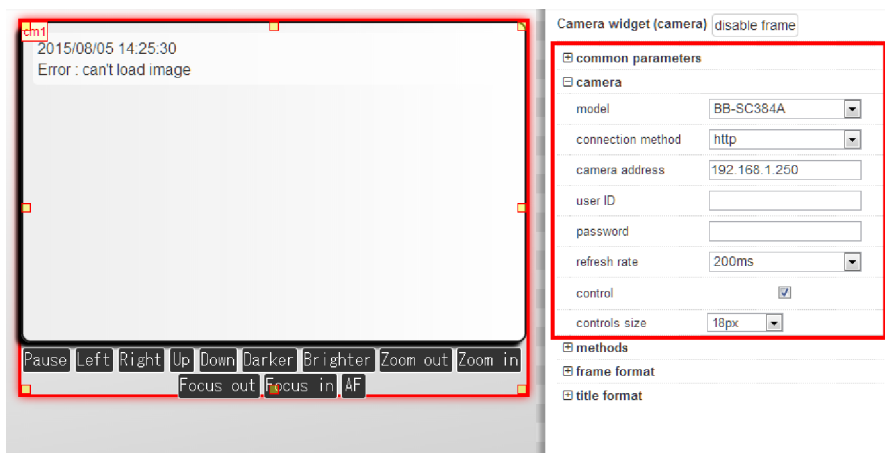
The part can be moved to the preset position

#### 6.23.1 Cooperation Method with a Network Camera

The following setting is required for linking a network camera and a camera part.

- Recommended browsers for using camera parts are Google Chrome, Fire Fox, Opera, and Safari.
- When using Internet Explorer, the automatic login to a network camera is not available.
- As the web screen of the network camera is displayed, log in from that screen.
- Use the latest version of software for the network camera.

#### • Setting for the connection with network camera



Setting item	Description
model	Select a target camera type.
connection method	Select http or https for the connection method.
camera address	Specify the IP address of the camera.
user ID	Specify the user ID set in the camera.
password	Specify the password of user ID.
refresh rate	Specify the update cycle of camera images. A minimum of 50 ms can be set.
control	Specify whether to display or not display a button for operating the camera.
controls size	Specify the size of the operation button.

The supported models for network camera parts are as follows.

**Network cameras manufactured by Panasonic**

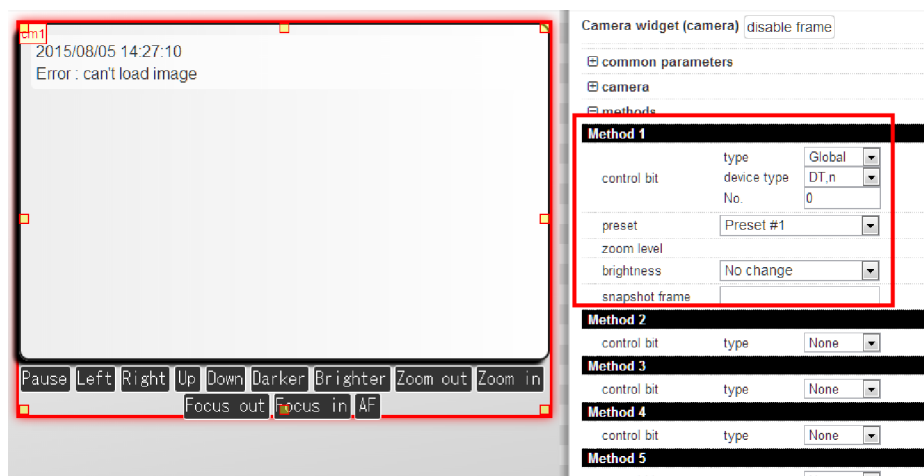
BB - SP104W / ST162A / SC384A / SW174WA / SW175A / SW172A

WV - SF135 / SF138 / SW155 / SW158

- **Cooperation method with PLC and network camera**

Registering operations enables the operations in cooperation with PLC.

The camera can be moved to the preset position according to reference bits.



Setting item	Description
control bit	Specify a device to be a trigger.
preset	Specify the preset position set in the camera. The view point of the camera can be changed by specifying the preset position. *: This setting is not available for some models.
zoom level	For using the magnification specified for the preset position of the camera, select "No change". For using a different magnification from that of the preset position, specify a magnification. *1: Magnification varies depending on the model and settings of the camera. *2: This setting is not available for some models.
brightness	For using the brightness specified for the preset position of the camera, select "No change". For using a different brightness from that of the preset position, specify brightness.
snapshot frame	The content of a current camera image is reflected to a specified graphical part. Specify the label name of graphical part. It takes a little time to reflect the content to a graphical part.

(Note 1) \* For details of the method of registering the preset position, refer to each manual of the network camera you use.

### 6.23.2 Available Functions for Each Model

Usable functions for each model are as follows.

## 6.23 Camera Parts

Model	BB - SP104W <sup>(Note 1)</sup>	BB - ST162A (SW174WA, SW175A, SW172A)	BB-SC384A	WV - SF135 (SW155)	WV - SF138 (SW158)
Preset specification	-	•	•	-	-
Magnification	•	•	-	•	•
Brightness	•	•	•	•	•

(Note 1) With BB-SP104W, it is possible to use the extended functions only when logged in.

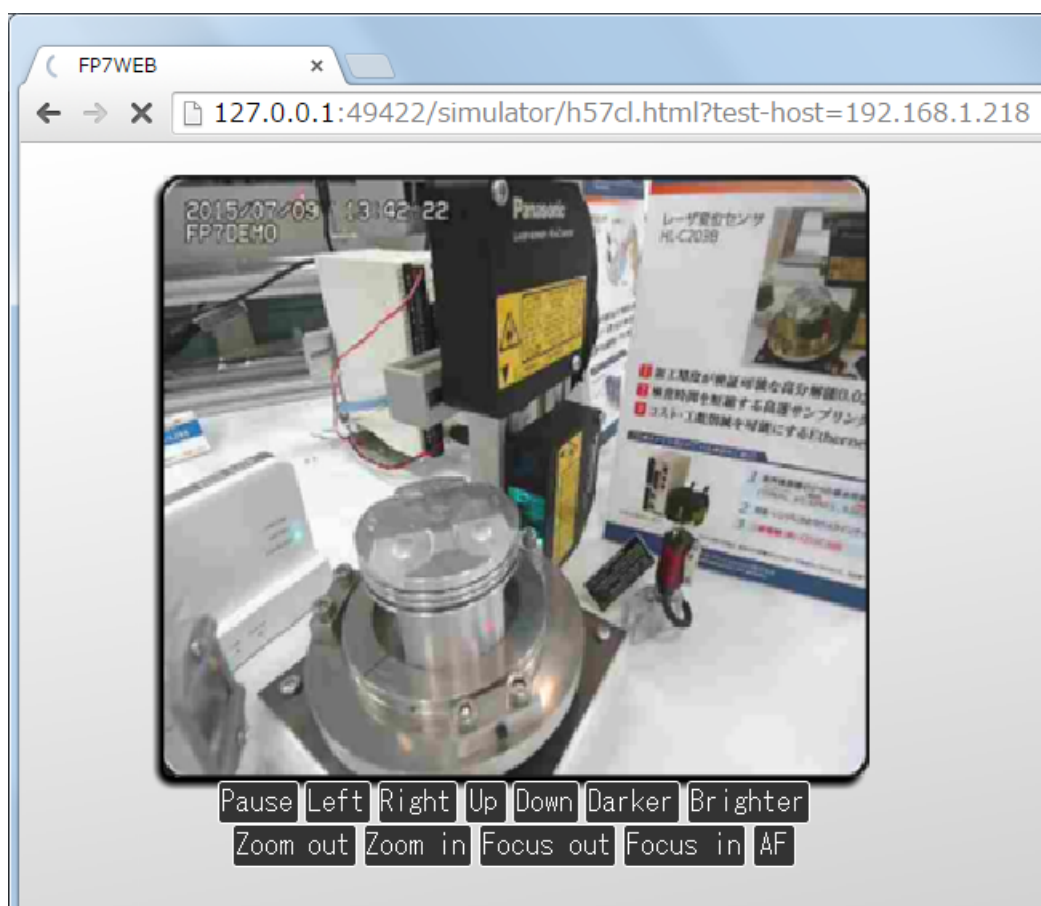
### 6.23.3 How to Select Models

The Software Control Web Creator supports various models, however, typical model numbers should be selected when selecting a model.

The model numbers corresponding to typical model numbers are as follows.

Typical model number	Corresponding model number
BB-ST162A	BB - ST162A, SW174WA, SW175A, SW172A
BB-SC384A	BB - SC384A
BB-SP104W	BB - SP104W
WV-SF135	WV - SF135, SW155
WV-SF138	WV - SF138, SW158

- Operation image



### 6.23.4 Properties of Camera Parts

#### ■ Properties

Properties	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
camera	Camera settings

## 6.23 Camera Parts

---

Properties	Description
model	Camera model setting
connection method	http/https
camera address	IP address of a camera
user ID	User ID of a camera
password	Password of a camera
refresh rate	Image update cycle of a camera
control	Display/hide the control panel for camera.
controls size	Operation button size of a camera
methods: Method 1 to 8	Camera operation setting
control bit	Bit device for starting operation
preset	Capturing direction setting
zoom level	zoom-up setting
brightness	Image brightness setting
snapshot frame	Label of a shape part saved
frame format	Frame settings
fill color	Background color
border style	Border type
border color	Border color
border radius	Rounded corners of the frame
border width	Width of a border
shadow pos	Shadow position of a border
shadow dist	Spread of shadow
shadow blur dist	Spread of blur
shadow color	Shadow color
shadow inset	Shadow of concave
title format	Title settings of a camera
title	Title character string
title font	Title font
title size	Title size
alignment	Title arrangement
color	Title color
decoration	Title character modification



## 6.24 General-use Camera Parts

General-use camera parts can be linked with Panasonic network cameras that support CGI commands. They can also access specified URLs.

### 6.24.1 Setting Items for General-use Camera Parts

#### General-use Camera (gencamera)

##### ⊕ common parameters

##### ⊖ camera

connection method	<input type="text" value="http"/>
camera address	<input type="text"/>
user ID	<input type="text"/>
password	<input type="text"/>
Parameter name (page)	<input type="text"/>
refresh rate	<input type="text" value="best effort"/>

Item	Description
Connection method	Select http or https for the connection method.
Camera address	Specify the IP address of the camera.
User ID	Specify the user ID set in the camera.
Password	Specify the password of user ID.
Parameter name	The parameter name can be specified. The default value is "page."
Refresh rate	Specify the update cycle of camera images. No refresh / best effort / 50ms / 100ms / 200ms / 500ms / 1s / 2s / 5s / 10s

### 6.24.2 Examples of Connection with Panasonic Network Cameras

## 6.24 General-use Camera Parts



### Examples of setting for general-use camera parts

Item	Description
Connection method	http
Camera address	192.168.1.6/cgi-bin/camera?resolution=640
User ID	(Blank)
Password	(Blank)
Parameter name	Page
Refresh rate	Best Effort

### 6.24.3 Properties of General-use Camera Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
label	Item name.

## 6.24 General-use Camera Parts

---

Property	Description
security level	The security level of a part is set from 0 (low) to 15 (high).
camera	Camera settings
connection method	http/https
camera address	IP address of a camera
user ID	User ID of a camera
password	Password of a camera
parameter name	Parameter name of a camera
refresh rate	Image update cycle of a camera

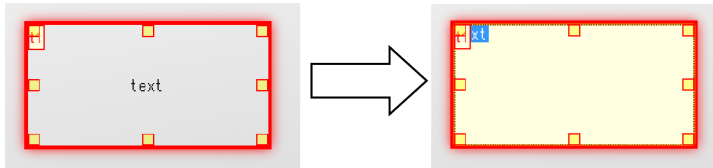
## 6.25 Text Parts

### 6.25 Text Parts

Text parts can be entered directly from parts.  
Multiple lines can also be displayed.

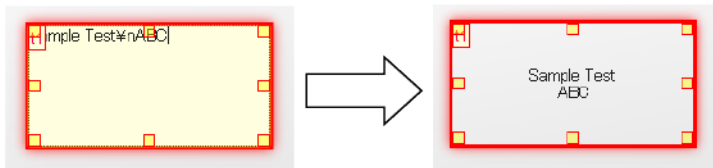
#### 6.25.1 Direct Input Method on Parts

Double-clicking a text part after selecting it enables the direct input.



Purpose	Operation method
Determination of input	The input content is determined by operating the <Enter> key or <Esc> key, or selecting an area outside of the part.

Remarks) It is possible to start a new line in the middle of line by inputting "\n".  
This can be specified by both the direct input to text parts and the setting item "text".



#### 6.25.2 Properties of Text Parts

##### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part.
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
text format	Text settings
text	Character string
alignment	Horizontal direction display position of character strings

---

Property	Description
vertical alignment	Vertical direction display position of character strings
color	Color of the character string
decoration	Modification of the character string
text size	Size of the character string
text font	Font of the character string
scroll	Scroll settings of character strings
direction	Scroll direction
delay	Delay time until the scroll start
duration	Scroll time
duplicated	Repeat of scroll
pause on mouseover	Pause by mouse

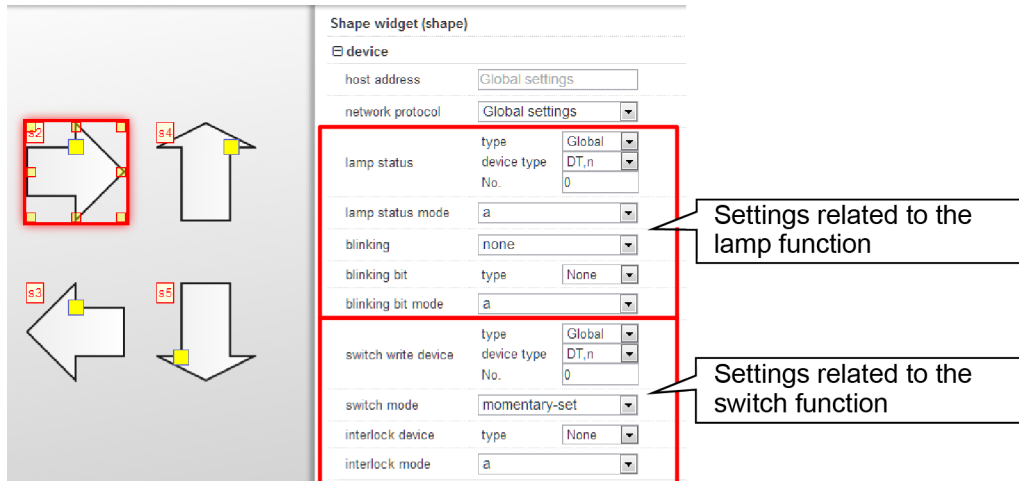
## 6.26 Shapes Parts

### 6.26 Shapes Parts

Not only graphics but also the lamp and switch functions can be set for shapes parts.

#### 6.26.1 Setting of Lamp and Switch Functions

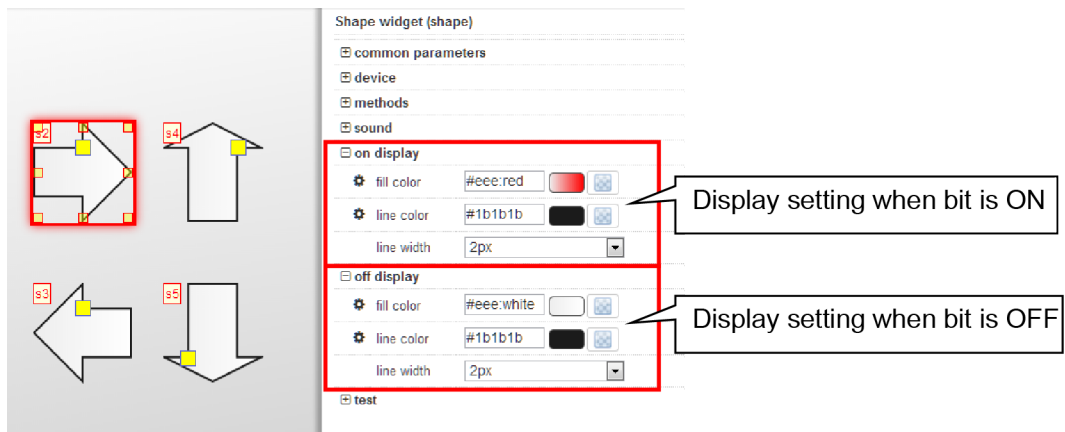
The lamp and switch functions become usable by specifying devices for using the lamp and switch functions.



The screenshot shows the configuration panel for a shape widget. On the left, four shapes are displayed: a square (s2), an upward arrow (s4), a leftward arrow (s3), and a downward arrow (s5). The configuration panel on the right is titled "Shape widget (shape)" and has a "device" section. The "lamp status" section is highlighted with a red box and includes: "type" (Global), "device type" (DT,n), "No." (0), "lamp status mode" (a), "blinking" (none), "blinking bit" (type: None), and "blinking bit mode" (a). The "switch write device" section is also highlighted with a red box and includes: "type" (Global), "device type" (DT,n), "No." (0), "switch mode" (momentary-set), "interlock device" (type: None), and "interlock mode" (a). Two callout boxes point to these sections: "Settings related to the lamp function" and "Settings related to the switch function".

(Note 1) For using parts as shapes parts, set each device setting to "None".

When setting the lamp function, the setting for changing the display by turning ON/OFF a reference bit is possible by changing the following setting.



The screenshot shows the configuration panel for a shape widget, focusing on display settings. On the left, the same four shapes (s2, s4, s3, s5) are shown. The configuration panel on the right has sections for "common parameters", "device", "methods", "sound", "on display", "off display", and "test". The "on display" section is highlighted with a red box and includes: "fill color" (#eee:red), "line color" (#1b1b1b), and "line width" (2px). The "off display" section is also highlighted with a red box and includes: "fill color" (#eee:white), "line color" (#1b1b1b), and "line width" (2px). Two callout boxes point to these sections: "Display setting when bit is ON" and "Display setting when bit is OFF".

(Note 1) For using parts as shapes parts, change the setting of "off display" when changing the design.

(Note 2) A transparent switch can be created by setting all the color settings to be transparent for both the on and off states.

For details of the setting method of transparent parts, refer to the next page.

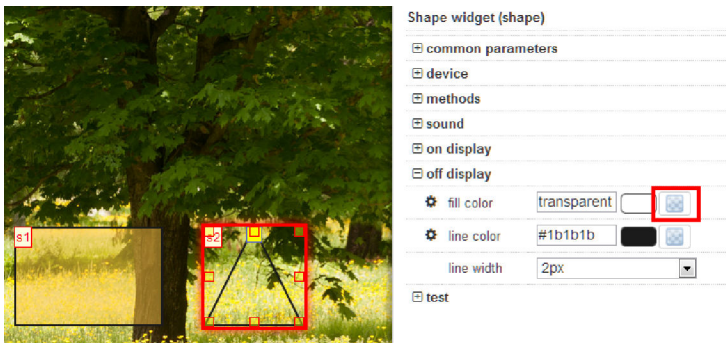
## 6.26.2 Transparency Setting

Besides the shapes parts, the transparency setting is available in the color setting for various web parts except some parts.

For details of the parts and items for which the transparency setting is available, refer to "6.26.3 Parts for which Transparency Setting Is Available".

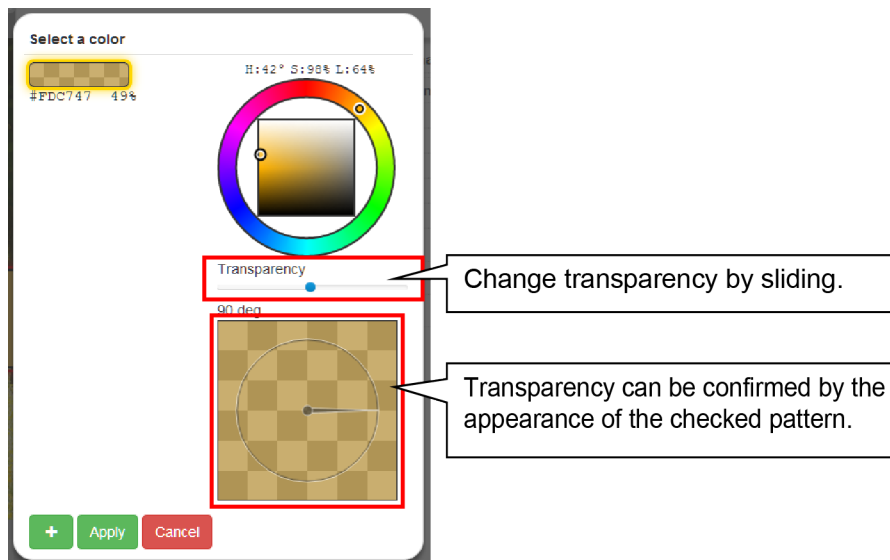
### Note

- The transparency setting is unavailable for the following web parts.
  - Slider parts, rotary switch parts, media player parts, and meter parts (meter parts that the low/middle/high range functions are not enabled)
- Method of making a part transparent (1)



The part is made transparent by operating the [transparent] button.

- Method of making a part transparent (2)
  - When setting transparency from the dialog of the color selection, it is possible to specify arbitrary transparency.



## 6.26 Shapes Parts

### 6.26.3 Parts for which Transparency Setting Is Available

The parts for which the transparency setting available and settable items are as follows.

Parts	Items for which the transparency setting is available					
Dialog	Button color	-	-	-	-	-
Meter	Low range color	Middle range color	High range color	-	-	-
Line graph	Line color	Background color	Font color	-	-	-
Bar graph	Line color	Background color	Font color	-	-	-
Extended graph	grid fill color	grid border color	Background color	Scale color	Line color	Fill color
Data	Background color	Frame line	Shadow color	-	-	-
Message	Background color	Frame line	Shadow color	-	-	-
Camera	Background color	Frame line	Shadow color	-	-	-
Graphic	Line color	Fill color	-	-	-	-

### 6.26.4 Properties of Shapes Parts

#### ■ Properties

Property	Description
common parameters	Common parameters
horizontal position	X coordinate of the upper left corner of a part.
vertical position	Y coordinate of the upper left corner of a part.
width	Width of a part.
height	Height of a part.
rotation	Rotation angle of a part (This is not set for linear shapes.)
label	Item name.
security level	The security level of a part is set from 0 (low) to 15 (high).
device	Device allocation setting
host address	Destination FP7, ELC500, KW2M-X
network protocol	m7 (Fixed)
lamp status	Bit device to be referred
lamp status mode	a-contact / b-contact
blinking	Blink or not blink
blinking bit	Bit device to be referred for blinking.



Property	Description
blinking bit mode	a-contact / b-contact
switch write device	Bit device for writing the status of a switch.
switch mode	Set/Reset/Momentary-set/Invert
interlock device	Bit device for referring to the valid or invalid state of switch operation.
interlock mode	a-contact / b-contact
methods	Operation setting when operating shapes
on methods	Operation when a button is pressed
off methods	Operation when a button is returned
sound	Operation sound settings
up beep	Sound when a button is returned.
down beep	Sound when a button is pressed.
on display	Display setting when a lamp is on.
fill color	Color displayed when the lamp status is ON.
line color	Color of the line displayed when the lamp status is ON.
line width	Thickness of the line displayed when the lamp status is ON.
off display	Display setting when a lamp is off.
fill color	Color displayed when the lamp status is OFF.
line color	Color of the line displayed when the lamp status is OFF.
line width	Thickness of the line displayed when the lamp status is OFF.
test	Display confirmation setting when editing a screen.
turn on	Turns ON/OFF a lamp.

(MEMO)

# 7 FP7 System Web Function

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## 7.1 Overview of FP7 System Web

### 7.1 Overview of FP7 System Web

#### ■ What is FP7 System Web?

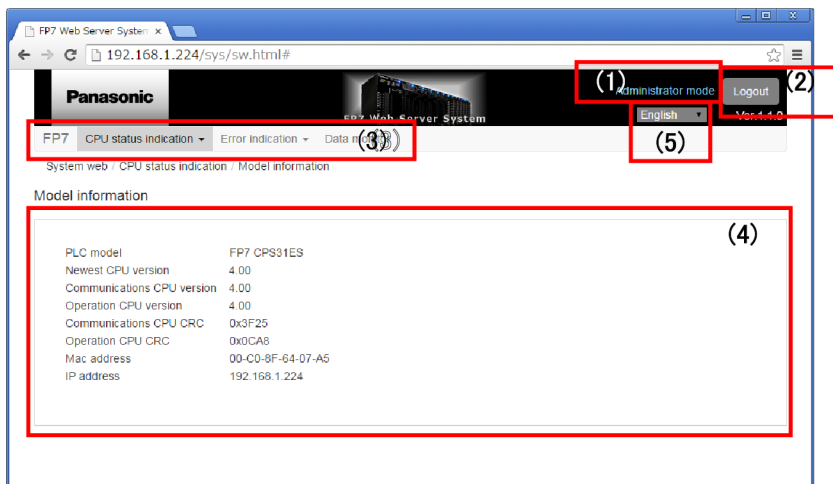
The FP7 system web is a content prepared for the FP7 CPU unit as standard.

The basic information and operation state of FP7 can be monitored on a browser by using this function.

The old unit name is displayed on the screen.

#### ■ Screen configuration

##### Screen configuration of FP7 system web



- (1) Administrator mode : Displays the logged-in user level.
  - 1. For administrator : Administrator mode (Blue)
  - 2. For user : No indication
- (2) Logout : Returns to the login screen.
- (3) System menu : The menu for selecting functions.
  - 1. FP7 : Links to our product (FP7) site.
  - 2. CPU status indication : Displays the FP7 model information, operation state and system monitor area.
  - 3. Error indication : Displays unit errors and error alarm relays.
  - 4. Data monitor : Monitors the data of a specified device.
- (4) Drawing area : Displays the screen of a selected function.
- (5) Language menu : Switches the language between Japanese and English.

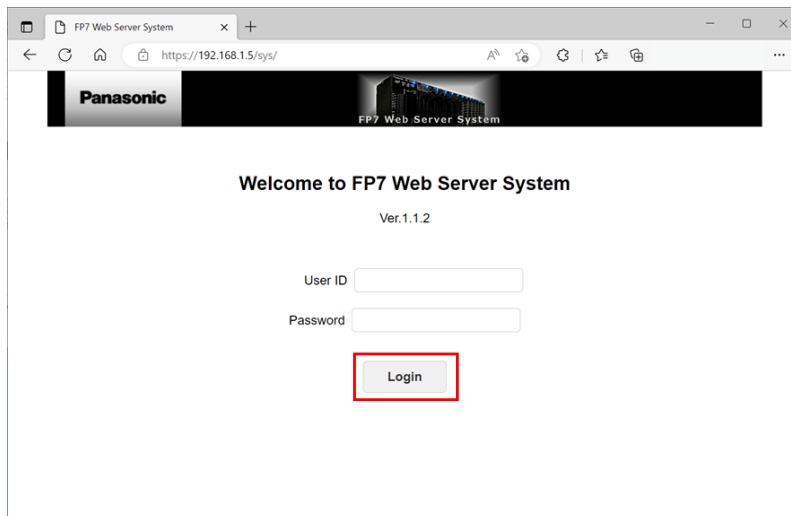
## 7.2 Login Screen

It is necessary to log in the FP7 web server before starting the FP7 system web screen.  
Enter a user ID and password on the login screen.

**\* When the FP7 unit is password-protected, you can only log in with a registered ID and password.**

### 1.2 Procedure

1. Enter "User ID" and "Password" on the start-up screen and click the [Login] button.



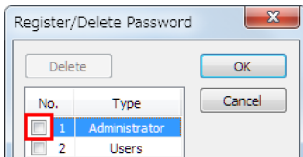
When entering User ID or Password failed, the following message is displayed.

Until the third try	User ID or Password is invalid.
From the fourth try	FP7 was locked because it had failed in log in three times. Please reboot FP7. (The system is restored when the unit is rebooted or one hour elapses.)

## 7.2 Login Screen

### **i** Info.

- The user ID and password to log in the FP7 system web varies by the security setting of FP7 CPU unit.

Security setting	User ID and Password
None	User ID: root, Password: pass
FPWIN GR7 security settings (FP7 only)	<p>User ID: Number for administrator used when the password has been registered. (Figure below)</p> <p>Password: Administrator password used when the password has been registered.</p>  <p>(How to confirm) <b>Tools&gt;PLC Security Settings&gt;Register/Delete Password</b></p>
FPWIN Pro7 security settings	<p>User ID: 1, Password: Password registered in Security Settings.</p> <p>(How to confirm) <b>Online&gt;Security Settings</b></p>

### **r** Note

- It is recommended not to save input information on User ID and Password in browsers for security reasons. If they are already saved, it is recommended to delete them. For information on the deletion method, see each browser setting you use.

## 7.3 CPU Status Indication

The CPU status indication menu is as follows.

### Menu list

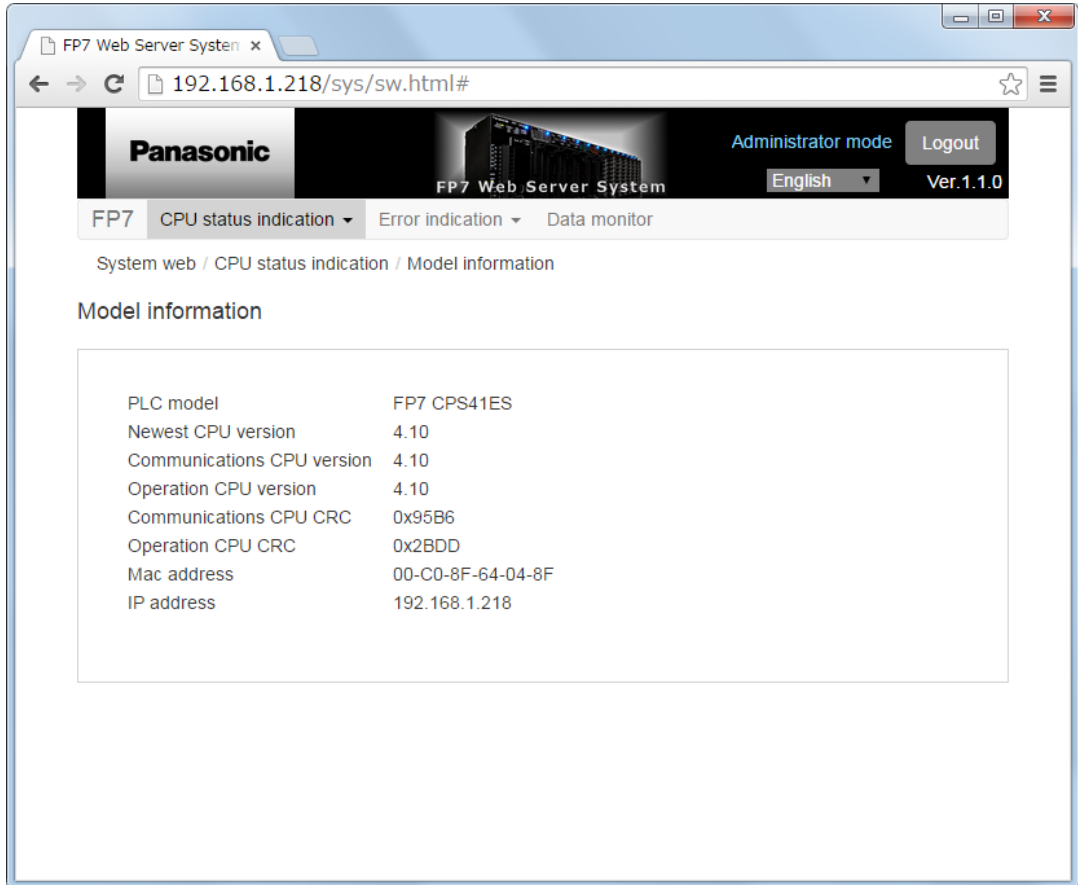
Menu name	Outline	Reference page
Model information	Displays the information on the FP7 CPU model.	"P.7-5"
Operation state	Displays the operating condition of the FP7 CPU unit.	"P.7-6"
Project header	Displays the project comment header area of the FP7.	"P.7-14"
System monitor area	Displays the system monitor area of the FP7.	"P.7-14"
System history	Displays the system history of the FP7.	"P.7-23"
EtherNet/IP monitor	Displays the EtherNet/IP monitor of the FP7.	"P.7-26"

### 7.3.1 Model Information

Displays the information on the FP7 CPU model.

## 7.3 CPU Status Indication

### ■ Model information screen



### ● Model information

- 1) PLC model : Displays the model name (FP7 CPSxxx).
- 2) Newest CPU version : Displays the latest CPU version.
- 3) Communication CPU version : Displays the communication CPU version.
- 4) Operation CPU version : Displays the operation CPU version.
- 5) Communications CPU CRC : Displays the communication CRC in hexadecimal.
- 6) Operation CPU CRC : Displays the operation CRC in hexadecimal.
- 7) MAC address : Displays the MAC address.
- 8) IP address : Displays the IP address.

### 7.3.2 Operation State

Displays the operating condition of the FP7 CPU unit.



### ■ Common function to each screen

#### [Monitor executing/stopped] button:

In the case of Monitor executing: Updates and displays data at the interval of one second.

In the case of Monitor stopped: Stops the update processing.

#### PLCDateTime:

The PLC date is displayed by yy/mm/dd (day of the week) and hh:mm:ss.

### ■ When selecting "Basic information"

The screenshot shows the FP7 Web Server System interface. The browser address bar displays `192.168.1.218/sys/sw.html#`. The page header includes the Panasonic logo, "Administrator mode", "Logout", "English", and "Ver. 1.1.0". The main navigation bar shows "FP7" and "CPU status indication". The breadcrumb trail is "System web / CPU status indication / Operation state". The PLC Date Time is "15/08/06(Thu) 09:46:18". There are buttons for "RUNMode" and "Monitor stopped". The "Operation state" section is active, showing a table of system parameters.

Basic information		Scan time	SD card	Panasonic SD	Logging/Trace	Active PB
RUN/PROG		SR20	RUN			
Program memory to use		SR21	Built-in			
RTC data		SR22	Normal			
Force flag		SR29	Cancel			
Error batch alarm relay		SRE	Normal			
Power supply unit service life warning		SR23	Normal			
RTC backup battery	Hold low voltage	SR24	Error			
	Low voltage	SR25	Error			
SNTP time	Update result	SR26	-			
	Update completed	SR27	Not complete			

#### ● Basic information

When the display content is "Error", "Force", or "Not complete", it is displayed in red.

- 1) RUN / PROG : Displays the status, running or program mode (RUN/PROG).
- 2) Program memory to use : Displays the operating program memory (Built-in/SD).
- 3) RTC data : Displays the RTC data (Normal / Error).
- 4) Force flag : Displays the Force flag (Cancel / Force).
- 5) Error batch alarm relay : Displays the Error batch alarm relay (Normal / Error).

## 7.3 CPU Status Indication

- 6) Power supply unit service life warning : Displays the Power supply unit service life warning (Normal / Error).
- 7) RTC backup battery
  - 1. Hold low voltage : Displays the battery voltage drop hold (Normal / Error).
  - 2. Low voltage : Displays the battery voltage drop real (Normal / Error).
- 8) SNTP time
  - 1. Update result : Displays the update result (Normal / Error).
  - 2. Update completed : Displays the update completion (Complete / Not complete).

### ■ When selecting the "Scan time" tab

The screenshot shows a web browser window displaying the FP7 Web Server System interface. The page title is 'FP7 CPU status indication'. The navigation menu includes 'FP7 CPU status indication', 'Error indication', and 'Data monitor'. The current page is 'System web / CPU status indication / Operation state'. The PLC Date Time is 15/08/06(Thu) 09:57:33. The interface is in 'Administrator mode' and 'English'. The 'Monitor stopped' button is active. Under 'Operation state', the 'Scan time' tab is selected. The table below shows the scan time values:

		Scan time
Current value	SD22	40 $\mu$ s
Minimum value	SD23	30 $\mu$ s
Maximum value	SD24	170 $\mu$ s

#### ● Scan time

- 1) Current value: Displays Scan time: Current value (in  $\mu$ s).
- 2) Minimum value: Displays Scan time: Minimum value (in  $\mu$ s).
- 3) Maximum value: Displays Scan time: Maximum value (in  $\mu$ s).

### ■ When selecting the "SD card" tab

The screenshot shows the FP7 Web Server System interface. The browser address bar displays '192.168.1.218/sys/sw.html#'. The page header includes the Panasonic logo, 'Administrator mode', 'Logout', 'English', and 'Ver. 1.1.0'. The main navigation menu has 'FP7 CPU status indication', 'Error indication', and 'Data monitor'. The breadcrumb trail is 'System web / CPU status indication / Operation state'. The 'PLC Date Time' is '15/08/06(Thu) 10:03:43'. There are 'RUNMode' and 'Monitor stopped' buttons. The 'Operation state' section has tabs for 'Basic information', 'Scan time', 'SD card', 'Panasonic SD', 'Logging/Trace', and 'Active PB'. The 'SD card' tab is active, showing a table of status indicators.

Cover	SR30	CLOSE
SD card inserted	SR31	Inserted
SD card detection complete	SR32	Complete
SD card detection results	SR33	Normal
SD card protection	SR34	Unprotected state
SD card type	SR35	SDHC
File system type	SR36	FAT32
FTP server login status	SR37	Not logged in
Logging/Trace is being executed	SR38	Stopped
Logging/Trace being executed	SR39	Stopped
SD card access instruction	SR3A	Stopped
SD card access instruction completed	SR3B	Executing
SD card access instruction execution result	SR3C	Normal
Power off during SD card access	SR3F	Normal
Maker code	SM	0002
Capacity	SM	30.1GB
Free space	SM	29.9GB

#### ● SD card

When an SD card is "Not inserted", "-" is always displayed after the completion of the recognition of an SD card.

When the recognition of an SD card is "Not complete", "-" is always displayed after the recognition result of an SD card.

- 1) Cover : Displays the cover state (OPEN/CLOSE).
- 2) SD card inserted : Displays the mounting state (Inserted/Not inserted).
- 3) SD card detection complete : Displays the recognition state (Complete/Not complete)
- 4) SD card detection results : Displays the recognition result (Normal/Error). (Only Error is displayed in red.)  
Only when the result is error, the result code is displayed in red hexadecimal.

## 7.3 CPU Status Indication

- |     |   |   |   |
|-----|---|---|---|
| 5)  | SD card protection                          | : | Displays the protected/unprotected state (Unprotected state / Protected state).   |
| 6)  | SD card type                                | : | Displays the card type (SD/SDHC).   |
| 7)  | File system type                            | : | Displays the file type (FAT16/FAT32).   |
| 8)  | FTP server login status                     | : | Displays the login state (Not logged in/Logged in).   |
| 9)  | Logging/Trace is being executed.            | : | Displays the execution state (Executing /Stopped).  |
| 10) | Logging/Trace being executed.               | : | Displays the startup state (Executing / Stopped).   |
| 11) | SD card access instruction                  | : | Displays the instruction state (Executing/Stopped).   |
| 12) | SD card access instruction completed        | : | Displays the instruction execution state (Complete/Not complete).   |
| 13) | SD card access instruction execution result | : | Displays the instruction execution result (Normal / Error).<br>(Only Error is displayed in red.)<br>Only when the result is error, the result code is displayed in red hexadecimal. |
| 14) | Power off during SD card access             | : | Displays the occurrence state (Normal/Occurred).  |
| 15) | Maker code                                  | : | Displays the Maker code number.   |
| 16) | Capacity                                    | : | Displays the capacity of the SD card (X.XGB).   |
| 17) | Free space                                  | : | Only for FAT32 SD card, displays the empty capacity (X.XGB).  |

### ■ When selecting the "PanasonicSD" tab

The screenshot shows a web browser window displaying the FP7 Web Server System interface. The browser address bar shows the URL 192.168.1.218/sys/sw.html#. The page header includes the Panasonic logo, 'Administrator mode', 'Logout', 'English', and 'Ver.1.1.0'. The main navigation bar contains 'FP7', 'CPU status indication', 'Error indication', and 'Data monitor'. Below this, the 'System web / CPU status indication / Operation state' path is shown. The 'PLC Date Time' is 15/08/06(Thu) 09:52:06, and there are 'RUNMode' and 'Monitor stopped' buttons. The 'Operation state' section has several tabs: 'Basic information', 'Scan time', 'SD card', 'Panasonic SD', 'Logging/Trace', and 'Active PB'. The 'Panasonic SD' tab is selected, displaying a table of SD card information:

SD card lifetime information acquisition time	SM307	-	Card information acquired
Vendor name	SM310	-	
No. of rewrites information			
Ratio of [Average number of rewrites of management blocks] to [Max. number of possible rewrites]	SM312	-	
System data			
	SM311	-	
	SM313	-	
	SM314	-	
	SM316	-	
	SM320	-	
	SM321	-	

### ● PanasonicSD

The following SD cards made by Panasonic are supported.

SLC type: FX series, EX series

MLC type: JD series, GD series, PC series

When a supported SD card made by Panasonic is not mounted, "-" is displayed.

### Card information acquired

This button is operable only when a supported Panasonic SD card is mounted.

Pressing this button redisplay the latest SD card information after its acquisition.

- 1) SD card lifetime information acquisition : Displays the time that the lifetime information on the SD card is acquired (year, month, day, hour, minute, second).
- 2) Vendor name : It is displayed only for "Panasonic".
- 3) No. of rewrites information : Displays the number of times that the SD card was rewritten (%).
- 4) System data : Displays the system data of the SD card.

### ■ When selecting the "Logging/Trace" tab

FP7 Web Server System x

192.168.1.218/sys/sw.html#

Panasonic Administrator mode Logout

FP7 Web Server System English Ver.1.1.0

FP7 CPU status indication Error indication Data monitor

System web / CPU status indication / Operation state

PLC Date Time: 15/08/06(Thu) 09:47:37 RUNMode Monitor stopped

Operation state

Basic information Scan time SD card Panasonic SD Logging/Trace Active PB

LOG no.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Logging/Trace is being executed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD card logging is being executed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Logging/trace is complete	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Logging excessive speed relay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Buffer overflow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Logging/Trace error	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
No SD card free space	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Device and trigger setting error	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tracing stop trigger monitor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trace data has been acquired	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Buffer free space(KB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buffer overflow counter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of written records of current file	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of files (generations)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oldest time data of file	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Logging/Trace area FROM data guarantee flag 0x0

No. of logging trace area rewrite command executions 107

#### ● Logging/Trace

Displays the following items 1) to 17) for each LOG number (0 to 15).

- 1) Logging/Trace is being executed. : Displays if Logging/Trace is executed or not (- / ON).

## 7.3 CPU Status Indication

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- |     |  |   |  |
|-----|--|---|--|
| 2)  | SD card logging is being executed                    | : | Displays if logging is being executed or not (- / ON).                 |
| 3)  | Logging/Trace is complete                            | : | Displays if Logging/Trace is complete or not (- / ON).                 |
| 4)  | Logging excessive speed relay                        | : | Displays if Logging excessive speed relay is executed or not (- / ON). |
| 5)  | Buffer overflow                                      | : | Displays if Buffer overflow is ON or not (- / ON).                     |
| 6)  | Logging/Trace error                                  | : | Displays if Logging/Trace error occurs or not (- / ON).                |
| 7)  | No SD card free space                                | : | Displays if No SD card free space error occurs or not.                 |
| 8)  | Device and trigger setting error                     | : | Displays if Device and trigger setting error occurs or not (- / ON).   |
| 9)  | Tracing stop trigger monitor                         | : | Displays if Tracing stop trigger monitor is enabled or not (- / ON).   |
| 10) | Trace data has been acquired.                        | : | Displays if Trace data has been acquired (- / ON).                     |
| 11) | Buffer free space (KB)                               | : | Displays the Buffer free space (in KB).                                |
| 12) | Buffer overflow counter                              | : | Displays the number of counters of Buffer overflow.                    |
| 13) | No. of written records of current file               | : | Displays the No. of written records of current file.                   |
| 14) | No. of files (generations)                           | : | Displays the No. of files (generations).                               |
| 15) | Oldest time data of file                             | : | Displays the Oldest time data of file (yy/mm/dd hh:mm:ss).             |
| 16) | Logging/Trace area FROM data guarantee flag          | : | Displays the FROM data guarantee flag.                                 |
| 17) | No. of logging trace area rewrite command executions | : | Displays the number of rewrite command executions.                     |

### ■ When selecting the "Active PB" tab

FP7 Web Server System

192.168.1.218/sys/sw.html#

Panasonic Administrator mode Logout

FP7 Web Server System English Ver.1.1.0

FP7 CPU status indication Error indication Data monitor

System web / CPU status indication / Operation state

PLC Date Time: 15/08/06(Thu) 09:45:27 RUNMode Monitor stopped

Operation state

Basic information Scan time SD card Panasonic SD Logging/Trace Active PB

No. of registered PBs: 2	PB	0	1	2	3	4	5	6	7	8	9
000		■	●	●	-	-	-	-	-	-	-
● PB001 - PB099	010	-	-	-	-	-	-	-	-	-	-
○ PB100 - PB199	020	-	-	-	-	-	-	-	-	-	-
○ PB200 - PB299	030	-	-	-	-	-	-	-	-	-	-
○ PB300 - PB399	040	-	-	-	-	-	-	-	-	-	-
○ PB400 - PB499	050	-	-	-	-	-	-	-	-	-	-
	060	-	-	-	-	-	-	-	-	-	-
	070	-	-	-	-	-	-	-	-	-	-
	080	-	-	-	-	-	-	-	-	-	-
	090	-	-	-	-	-	-	-	-	-	-

● : Executing  
■ : Stopped  
- : Not registered

#### ● Active PB

##### Common specifications in the Active PB card tab

Displays ●: Executing, ■: Stopped, “-”: Not registered.  
PB0 is not used. (Displayed in light gray)

##### Radio button for switching the registered PB display

The selected PB range is displayed.

PB001-099: Displays the range of PB001 to PB099.

PB100-199: Displays the range of PB100 to PB199.

PB200-299: Displays the range of PB200 to PB299.

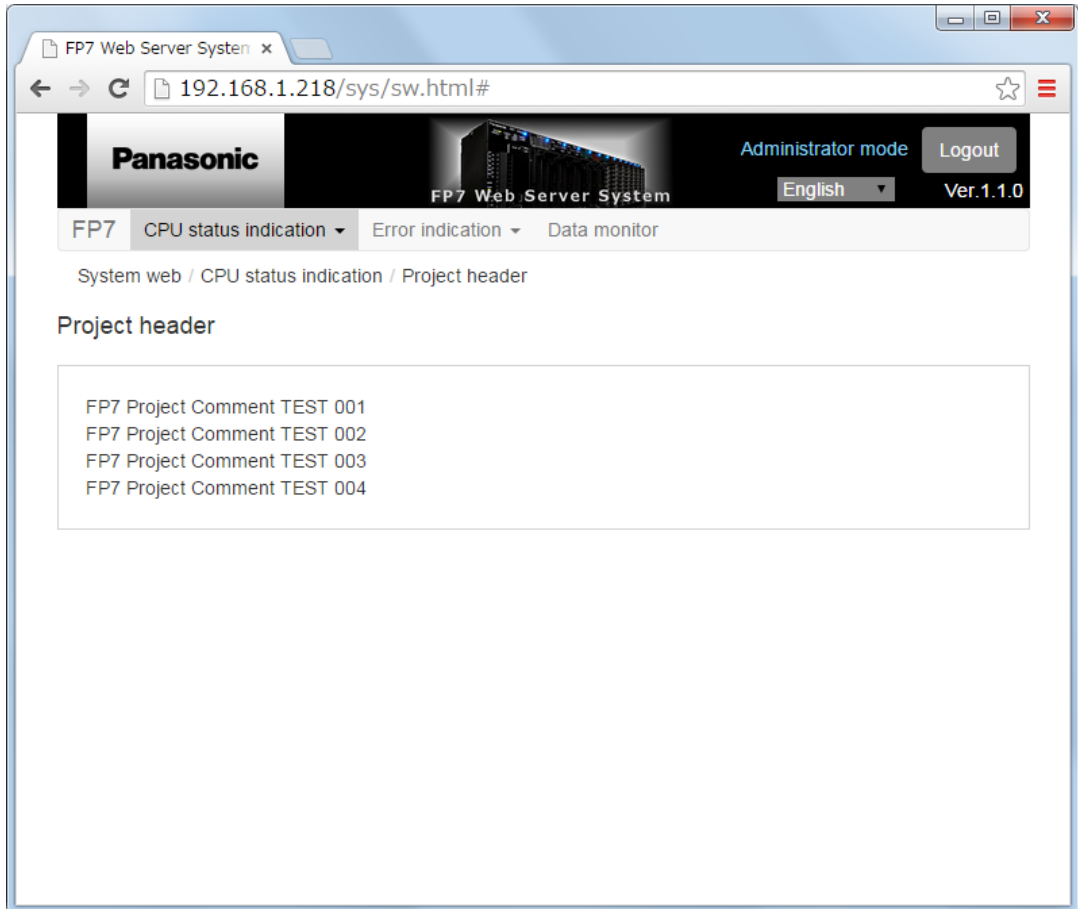
PB300-399: Displays the range of PB300 to PB399.

PB400-499: Displays the range of PB400 to PB499.

## 7.3 CPU Status Indication

### 7.3.3 Project Header

Displays the project comment header area of the FP7.



- **Project header**

Displays the CPU project comment set in the FP7.

### 7.3.4 System Monitor Area

Displays the system monitor area of the FP7.

- **Common function to each screen**

- **Monitor executing/stopped button:**

In the case of Monitor executing: Updates and displays data at the interval of one second.

In the case of Monitor stopped: Stops the update processing.



### ■ When selecting the "Use History" tab

The screenshot shows a web browser window with the URL `192.168.1.218/sys/sw.html#`. The page header includes the Panasonic logo, 'FP7 Web Server System', and 'Administrator mode' with a 'Logout' button. Below the header, there are navigation tabs for 'CPU status indication', 'Error indication', and 'Data monitor'. The main content area is titled 'System monitor area' and contains a 'Save' button, a play button, and a 'Monitor stopped' checkbox. Underneath, there are several tabs: 'Use History', 'Voltage', 'Current', 'Temperature', 'Power supply', 'Communication cycle', 'Interrupt units', and 'Internal Information'. The 'Use History' tab is active, displaying a table with the following data:

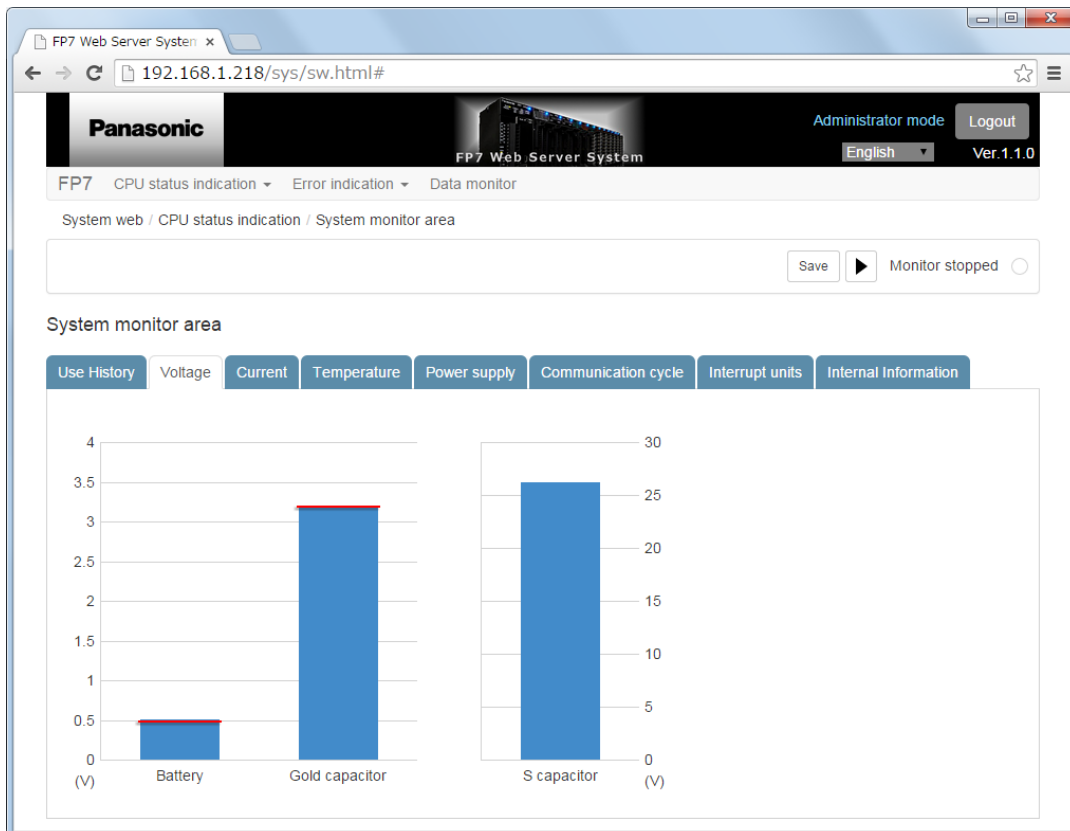
Accumulated energization time	29M33S
Continuous energization time	28M 4S
No. of power ON	1times
Latest power-on time	15/08/06 10:13:27
Latest power-off time	15/08/06 10:13:25

#### ● Use History

- 1) Accumulated energization time : Displays the accumulated time (day, hour, minute, second).
- 2) Continuous energization time : Displays the energization time (day, hour, minute, second).
- 3) No. of power ON : Displays the No. of power ON.
- 4) Latest power-on time: : Displays the Latest power-on time (yy/mm/dd hh:mm:ss).
- 5) Latest power-off time: : Displays the Latest power-off time (yy/mm/dd hh:mm:ss).

## 7.3 CPU Status Indication

### ■ When selecting the "Voltage" tab



### ● Voltage

#### Common specifications in the Voltage tab

Displays voltage level drop hold values as graphs in red. (Unit: V)

Click the vertical area of a target graph for displaying numerical information.

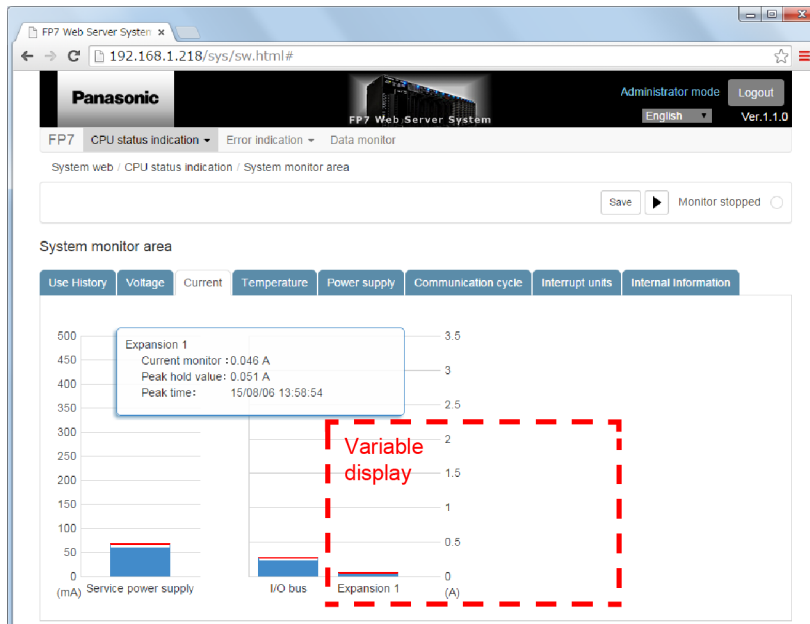
Numerical information is displayed in the center of the screen. For deleting the display, click the area again.

Battery	
Voltage monitor	: 3.276 V
Voltage level drop hold value	: 0.183 V
Voltage level drop time	: 12/06/02 00:28:50

- 1) Bt vol current monitor : Displays the battery voltage.
- 2) Bt vol level drop hold value : Displays the level drop hold value.
- 3) Bt vol level drop time : Displays the drop time (yy/mm/dd hh:mm:ss).
- 4) Gold capacitor Voltage monitor : Displays the gold capacitor voltage.
- 5) Gold capacitor Voltage level drop hold value : Displays the level drop hold value.
- 6) Gold capacitor Voltage monitor : Displays the drop time (yy/mm/dd hh:mm:ss).
- 7) S capacitor voltage value : Displays the S capacitor voltage value.

- 8) S capacitor voltage error : Displays the S capacitor voltage abnormal value.
- 9) S capacitor voltage error detection time: : Displays the error detection time (yy/mm/dd hh:mm:ss).

### ■ When selecting the "Current" tab



### ● Current

#### Common specifications in the Current tab

Displays current peak hold values as graphs in red.

(Unit: mA for service power supply, A for others)

Click the vertical area of a target graph for displaying numerical information.

Numerical information is displayed in the center of the screen. For deleting the display, click the area again.

Expansion 1	
Current monitor	: 0.512 A
Peak hold value	: 1.151 A
Peak time	: 14/12/22 14:29:55

The current graphs for expansion units (1 to 3) are displayed for the number of connected expansion units.

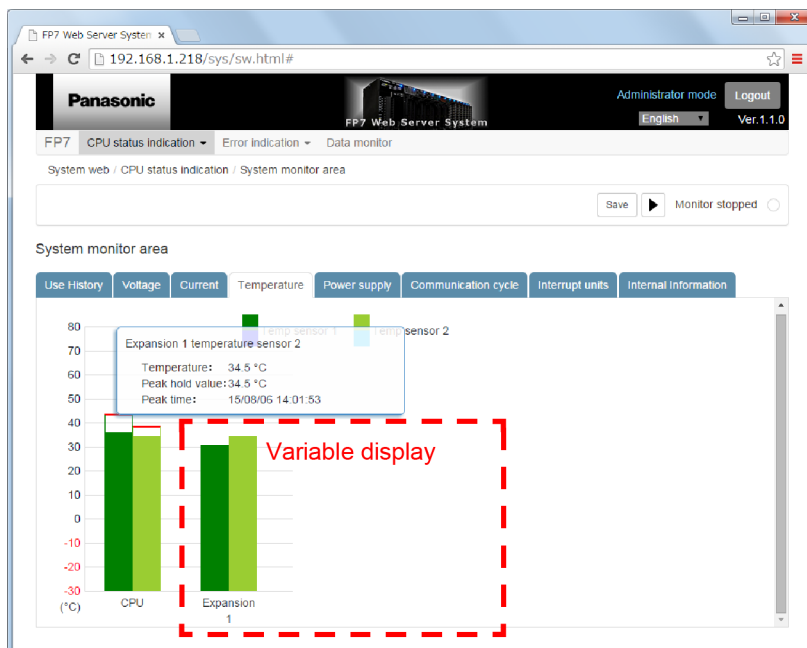
When no expansion unit is connected, the graph is not displayed.

- 1) Service power supply current monitor : Displays the service current (Unit: mA).
- 2) Service power supply peak hold value : Displays the peak hold value.
- 3) Service power supply peak time : Displays the peak time (yy/mm/dd hh:mm:ss).
- 4) I/O bus current monitor : Displays the I/O bus current (Unit: A).
- 5) I/O bus peak hold value : Displays the peak hold value.

## 7.3 CPU Status Indication

- 6) I/O bus peak occurrence time : Displays the peak time (yy/mm/dd hh:mm:ss).
- 7) Expansion 1 to 3 current monitor : Displays the currents of expansion units 1 to 3 (Unit: A).
- 8) Expansion 1 to 3 current peak hold value : Displays the peak hold values of expansion units 1 to 3.
- 9) Expansion 1 to 3 peak time : Displays the peak time of expansion units 1 to 3 (yy/mm/dd hh:mm:ss).

### ■ When selecting the "Temperature" tab



### ● Temperature

#### Common specifications in the Temperature tab

Displays temperature peak hold values as graphs in red. (Unit: °C)

Click the vertical area of a target graph for displaying numerical information.

Numerical information is displayed in the center of the screen. For deleting the display, click the area again.

Expansion 1 temperature sensor 1	
Temperature	: 26.9 °C
Peak hold value	: 41.4 °C
Peak time	: 12/06/02 00:28:50

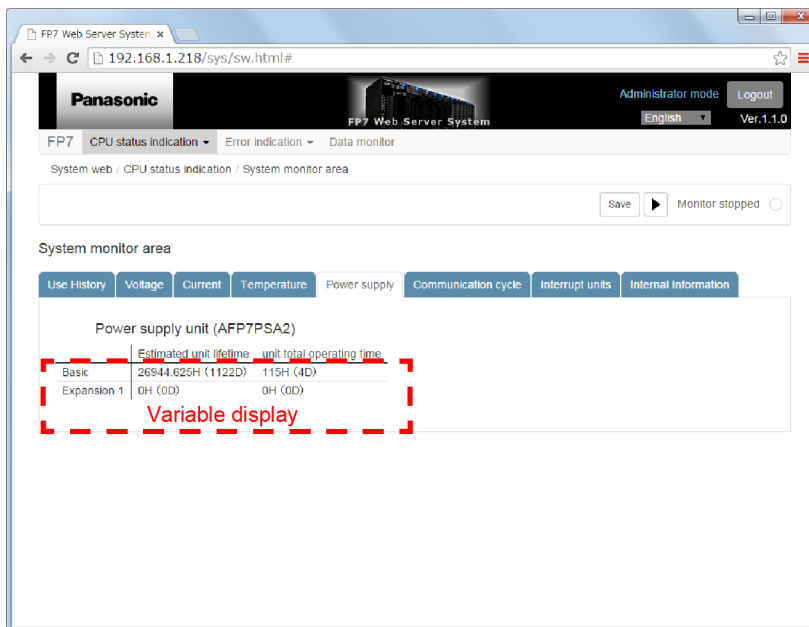
The temperature graphs for expansion units (1 to 3) are displayed for the number of connected expansion units.

When no expansion unit is connected, the graph is not displayed.

- 1) CPU temperature sensor 1 : Displays the temperature sensor 1 (Unit: °C).
- 2) CPU temperature sensor 1 peak hold value : Displays the peak hold value.

- |     |  |   |   |
|-----|--|---|---|
| 3)  | CPU temperature sensor 1 peak occurrence time              | : | Displays the peak time (yy/mm/dd hh:mm:ss).   |
| 4)  | CPU temperature sensor 2                                   | : | Displays the temperature sensor 2 (Unit: °C). |
| 5)  | CPU temperature sensor 2 peak hold value                   | : | Displays the peak hold value.                 |
| 6)  | CPU temperature sensor 2 peak occurrence time              | : | Displays the peak time (yy/mm/dd hh:mm:ss).   |
| 7)  | Expansion 1 to 3 temperature sensor 1                      | : | Displays the temperature sensor 1 (Unit: °C). |
| 8)  | Expansion 1 to 3 temperature sensor 1 peak hold value      | : | Displays the peak hold value.                 |
| 9)  | Expansion 1 to 3 temperature sensor 1 peak occurrence time | : | Displays the peak time (yy/mm/dd hh:mm:ss).   |
| 10) | Expansion 1 to 3 temperature sensor 2                      | : | Displays the temperature sensor 2 (Unit: °C). |
| 11) | Expansion 1 to 3 temperature sensor 2 peak hold value      | : | Displays the peak hold value.                 |
| 12) | Expansion 1 to 3 temperature sensor 2 peak occurrence time | : | Displays the peak time (yy/mm/dd hh:mm:ss).   |

### ■ When selecting the "Power supply" tab



#### ● Power supply

##### Common specifications in the Power supply tab

The estimated lifetime and total operation time of the power supply unit (AFP7PSA2) attached to expansion units (1 to 3) is displayed for each connected expansion unit.

(For inapplicable power supply units, or when the power supply unit is not attached, 0 hours is displayed.)

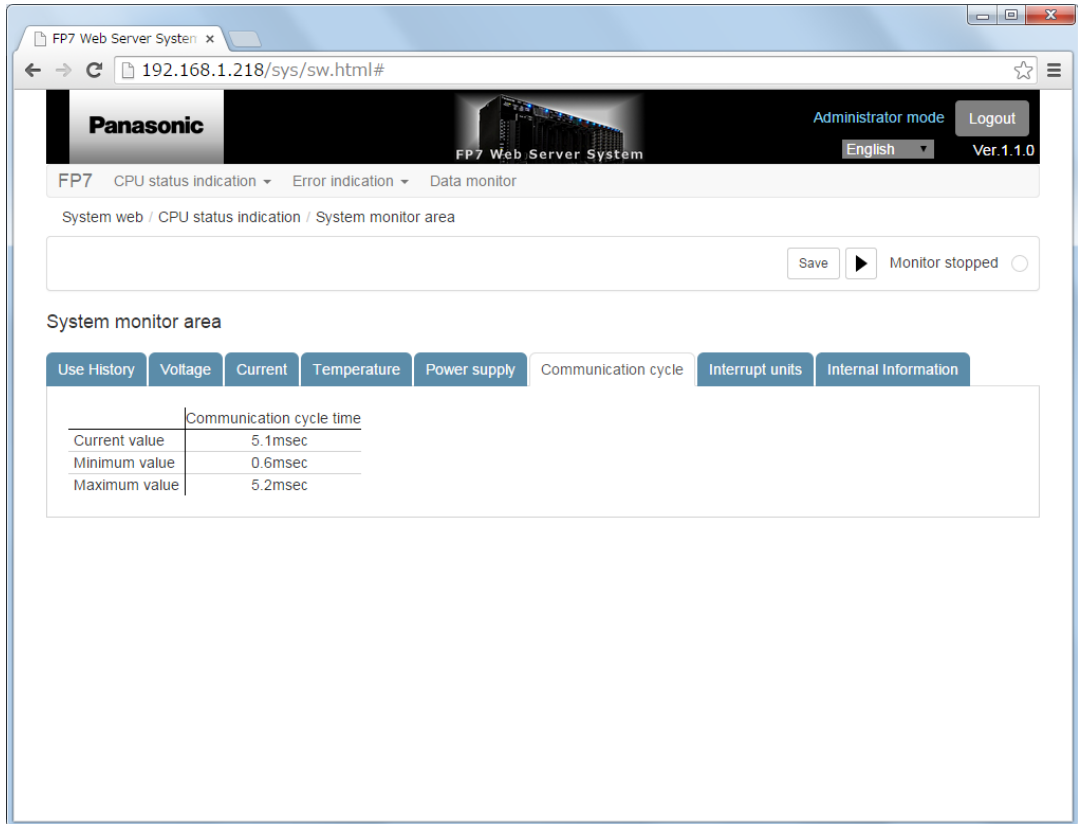
When expansion unit is not attached, these items are not displayed.

- |    |                                     |   |  |
|----|-------------------------------------|---|--|
| 1) | CPU power supply unit lifetime data | : | Displays the lifetime data (hour/day). |
|----|-------------------------------------|---|--|

## 7.3 CPU Status Indication

- 2) CPU power supply unit total operating time : Displays the operation time (hour/day).
- 3) Expansion 1 to 3 power supply unit lifetime data : Displays the lifetime data (hour/day).
- 4) Expansion 1 to 3 power supply unit total operating time : Displays the operation time (hour/day).

### ■ When selecting the "Communication cycle" tab



The screenshot shows the Panasonic FP7 Web Server System administrator interface. The browser address bar displays `192.168.1.218/sys/sw.html#`. The page header includes the Panasonic logo, "Administrator mode", "Logout", "English", and "Ver.1.1.0". The main navigation menu includes "CPU status indication", "Error indication", and "Data monitor". The current page is "System web / CPU status indication / System monitor area". A "Save" button and a "Monitor stopped" toggle are visible. The "System monitor area" contains several tabs: "Use History", "Voltage", "Current", "Temperature", "Power supply", "Communication cycle", "Interrupt units", and "Internal Information". The "Communication cycle" tab is selected, displaying a table with the following data:

	Communication cycle time
Current value	5.1msec
Minimum value	0.6msec
Maximum value	5.2msec

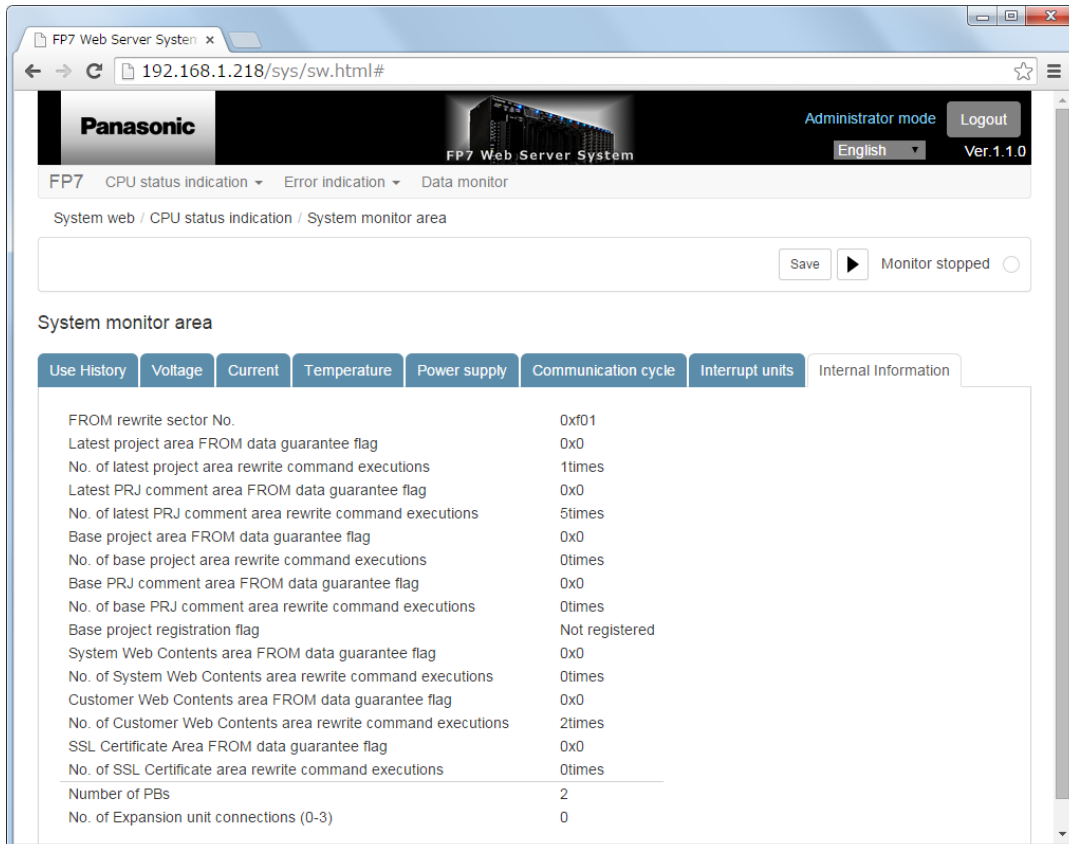
#### ● Communication cycle

- 1) Communication cycle time current value: Displays the current value of communication cycle time (in 0.1 msec unit).
- 2) Communication cycle time minimum value: Displays the minimum value of communication cycle time (in 0.1 msec unit).
- 3) Communication cycle time maximum value: Displays the maximum value of communication cycle time (in 0.1 msec unit).



## 7.3 CPU Status Indication

### ■ When selecting the "Internal Information" tab



The screenshot shows a web browser window with the URL `192.168.1.218/sys/sw.html#`. The page header includes the Panasonic logo, 'FP7 Web Server System', 'Administrator mode', 'Logout', 'English', and 'Ver.1.1.0'. The main navigation menu has 'FP7', 'CPU status indication', 'Error indication', and 'Data monitor'. The 'CPU status indication' menu is expanded, showing 'System web / CPU status indication / System monitor area'. Below this is a 'Save' button and a 'Monitor stopped' indicator. The 'System monitor area' has several tabs: 'Use History', 'Voltage', 'Current', 'Temperature', 'Power supply', 'Communication cycle', 'Interrupt units', and 'Internal Information'. The 'Internal Information' tab is active, displaying a table of system metrics.

FROM rewrite sector No.	0xf01
Latest project area FROM data guarantee flag	0x0
No. of latest project area rewrite command executions	1times
Latest PRJ comment area FROM data guarantee flag	0x0
No. of latest PRJ comment area rewrite command executions	5times
Base project area FROM data guarantee flag	0x0
No. of base project area rewrite command executions	0times
Base PRJ comment area FROM data guarantee flag	0x0
No. of base PRJ comment area rewrite command executions	0times
Base project registration flag	Not registered
System Web Contents area FROM data guarantee flag	0x0
No. of System Web Contents area rewrite command executions	0times
Customer Web Contents area FROM data guarantee flag	0x0
No. of Customer Web Contents area rewrite command executions	2times
SSL Certificate Area FROM data guarantee flag	0x0
No. of SSL Certificate area rewrite command executions	0times
Number of PBs	2
No. of Expansion unit connections (0-3)	0

#### ● Internal information

It shows the following internal information.

- 1) FROM rewrite sector No.
- 2) Latest project area FROM data guarantee flag
- 3) No. of latest project area rewrite command executions
- 4) Latest PRJ comment area FROM data guarantee flag
- 5) No. of latest PRJ comment area rewrite command executions
- 6) Base project area FROM data guarantee flag
- 7) No. of base project area rewrite command executions
- 8) Base PRJ comment area FROM data guarantee flag
- 9) No. of base PRJ comment area rewrite command executions
- 10) Base project registration flag
- 11) FP7 System Web Contents area FROM data guarantee flag
- 12) No. of FP7 System Web Contents area rewrite command executions
- 13) Customer Web Contents area FROM data guarantee flag
- 14) No. of Customer Web Contents area rewrite command executions
- 15) SSL Certificate Area FROM data guarantee flag
- 16) No. of SSL Certificate area rewrite command executions
- 17) Number of PBs



18) No. of Expansion unit connections (0-3)

### 7.3.5 System History

Displays the system history of the FP7.

#### ■ Common function to each screen

##### [Monitor executing/stopped] button:

In the case of Monitor executing : Updates processing only once.  
It returns to the monitoring-stopped state after updating data.

In the case of Monitor stopped : Stops update processing.

##### [Clear] button

Clears the system history information, and redispays the list.

##### [Save] button

Saves the displayed system history information. (CSV format)

#### ■ When selecting the "Event" tab

The screenshot shows the 'System history' page in the FP7 Web Server System. The 'Event' tab is active, showing a list of events. A red box highlights the event '2015/08/06 11:02:01 Operation mode state change'. A red arrow points from this event to a dashed red box below the list, which is labeled 'Detail screen display area'. The detail area shows the following information:

```

Information details
-----
0:PROG 1:RUN
0001
  
```

#### ● System history (Event)

It shows the following event history.

## 7.3 CPU Status Indication

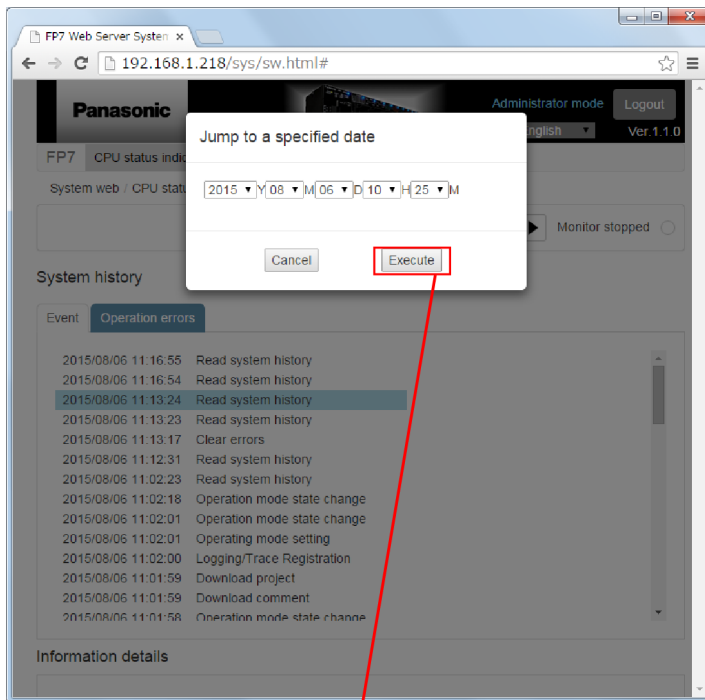
---

- 1) Date and time that an even occurs
- 2) Event name

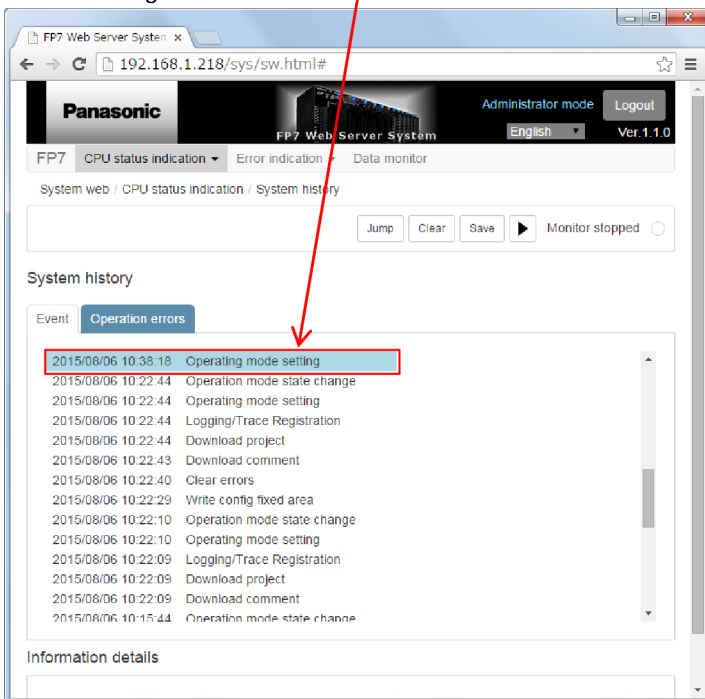
Clicking the list display shows the detailed information on the event.

**[Jump] button**

Jumps to the recent event occurred after a specified date and time in the system history.

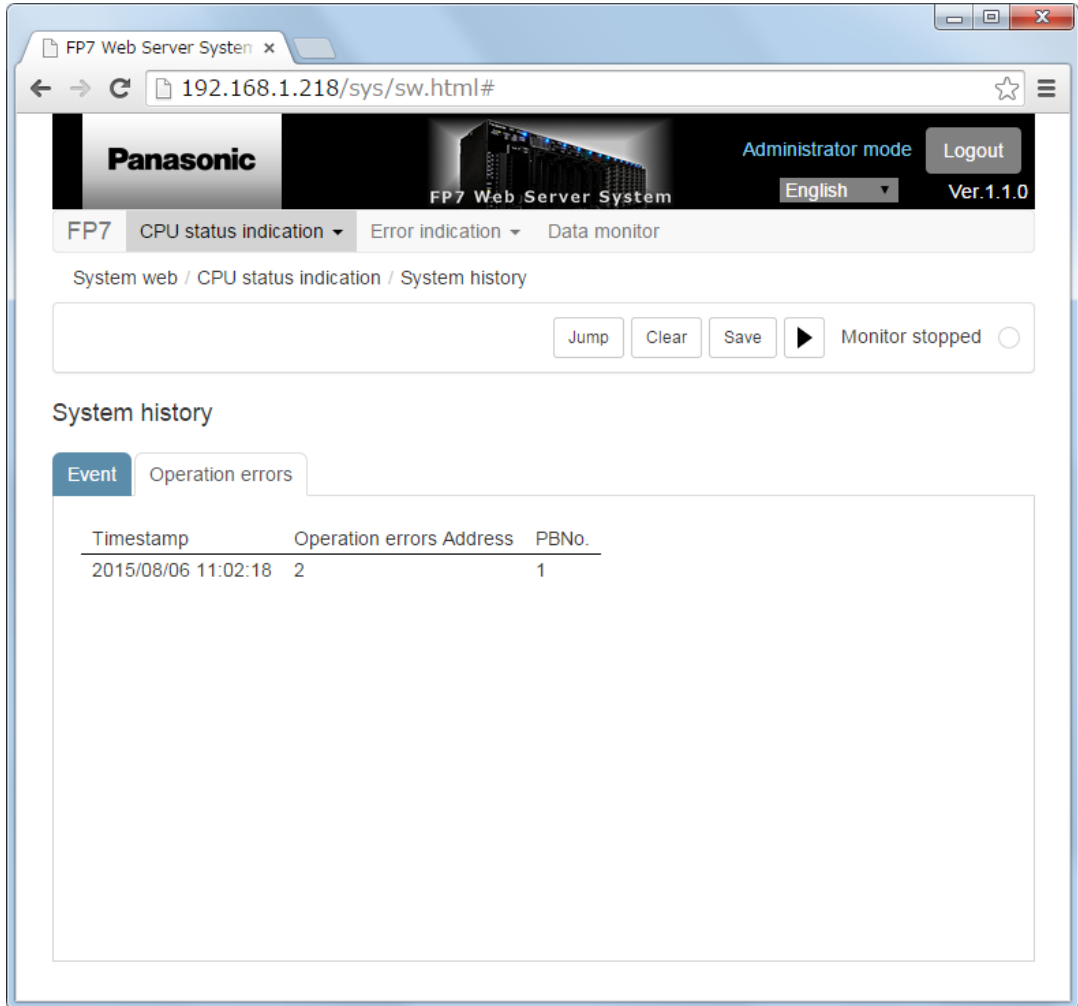


After clicking "Execute"



## 7.3 CPU Status Indication

### ■ When selecting the "Operation errors" tab



#### ● System history (Operation errors)

It shows the following event history.

- 1) Timestamp Date and time that an even occurs
- 2) Operation errors Address
- 3) PB No.

### 7.3.6 EtherNet/IP Monitor

Displays the EtherNet/IP monitor of the FP7.

#### ■ Common function to each screen

##### [Save] button

Saves the displayed EtherNet/IP monitor information. (CSV format)

### ■ When selecting "Node information" tab

The screenshot shows the 'EtherNet/IP monitor' interface. The 'Node information' tab is active, displaying a table with columns for Node No. (0-9) and their communication status. A red dashed box highlights the detail information for Node No. 007-1, which shows a status of 'INVALID SEGMENT IN CONNECTION PATH'. A red arrow points from the table to the detail area.

No. of registered nodes:	1	Node No.	0	1	2	3	4	5	6	7	8	9
Max. registered node number:	7	000	-	-	-	-	-	●	■	■	-	-
● 001 - 099		010	-	-	-	-	-	-	-	-	-	-
● 100 - 199		020	-	-	-	-	-	-	-	-	-	-
● 200 - 256		030	-	-	-	-	-	-	-	-	-	-
		040	-	-	-	-	-	-	-	-	-	-
		060	-	-	-	-	-	-	-	-	-	-
		060	-	-	-	-	-	-	-	-	-	-
		070	-	-	-	-	-	-	-	-	-	-
		080	-	-	-	-	-	-	-	-	-	-
		090	-	-	-	-	-	-	-	-	-	-

Legend:

- - Cyclic communication normal
- - Cyclic communication stop
- - Cyclic communication abnormal
- - Cyclic communication unregistration

Detail screen display area:

Node No.: 007-1    Vendor: Panasonic Industrial Devices SUNX Co., Ltd.  
 Slot No.: 0    Status: 0315  
 INVALID SEGMENT IN CONNECTION PATH

#### ● Node information (EtherNet/IP operation status monitor)

It shows the following information.

- 1) Number of registered nodes : (0 to 256)
- 2) Max. registered node number : (0 to 256)
- 3) Operation state : (Cyclic communication : ● normal / ■ stop / ■ abnormal / - unregistration)

Clicking the list display shows detail information (the following items) in the lower part of the screen.

Node No. , Slot No. , Vendor , Status: Code, contents

When more than one error occurs within one node, the display is switched with [▲] and [▼] buttons.

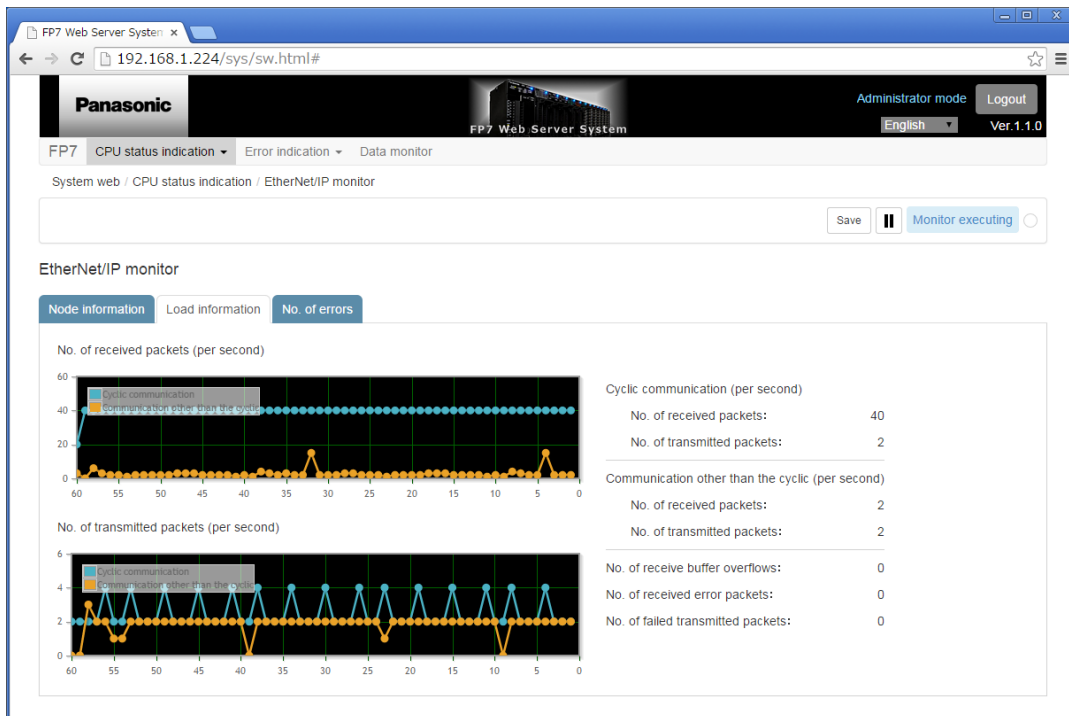
The list display is switched by selecting a node range (No. 001-099, 100-199, or 200-256).

#### ● [Monitor executing/stopped] button

Updates processing only once It returns to the monitoring-stopped state after updating data.

## 7.3 CPU Status Indication

### ■ When selecting the "Load information" tab



#### ● Load information (EtherNet/IP operation status monitor)

- It shows the following information.
  - 1) Cyclic communication (per second) - No. of received packets
  - 2) Cyclic communication (per second) - No. of transmitted packets
  - 3) Communication other than the cyclic (per second) - No. of received packets
  - 4) Communication other than the cyclic (per second) - No. of transmitted packets
  - 5) No. of receive buffer overflows
  - 6) No. of received error packets
  - 7) No. of failed transmitted packets

- It shows the following information graphically.

- No. of received packets (per second): ● Cyclic / ● Others
- No. of transmitted packets (per second): ● Cyclic / ● Others

Horizontal axis: Scaled at the interval of one second. Shifted to the left after displaying the whole graph.

Vertical axis: Automatically adjusted according to the number of packets.

\* The graph is reset by switching the tab or starting monitoring.

#### ● [Monitor executing/stopped] button

In the case of Monitor executing: Updates and displays data at the interval of one second.

In the case of Monitor stopped: Stops the update processing.

■ When selecting the "No. of errors" tab

The screenshot shows a web browser window displaying the FP7 Web Server System interface. The browser address bar shows the URL `192.168.1.224/sys/sw.html#`. The interface includes a Panasonic logo, a navigation menu with 'CPU status indication', 'Error indication', and 'Data monitor', and a 'Monitor stopped' button. The 'EtherNet/IP monitor' section is active, with the 'No. of errors' tab selected. A table displays the number of timeouts for three nodes.

Node No.	No. of timeouts
5	0
6	0
7	0

● **No. of errors (EtherNet/IP operation status monitor)**

It shows the following information.

- 1) Node No.
- 2) No. of timeouts

\* The number of communication errors is displayed for each node. The display varies according to the number of registered nodes.

● **[Monitor executing/stopped] button**

Updates processing only once It returns to the monitoring-stopped state after updating data.

## 7.4 Error Indication

### 7.4 Error Indication

The error indication menu is as follows.

#### Menu list

Menu name	Outline	Reference page
Unit error	Displays unit errors of the FP7.	"P.7-30"
Error alarm relay	Displays the list of error alarm relays of the FP7.	"P.7-31"

#### 7.4.1 Unit Error

Displays unit errors of the FP7.

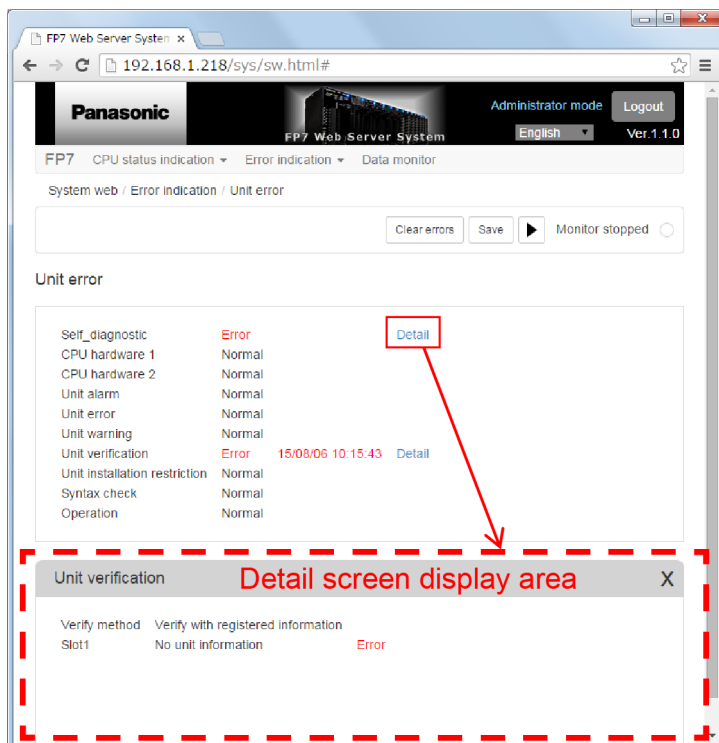
#### ■ Common functions in the error indication tab

##### [Monitor executing/stopped] button:

In the case of Monitor executing: Updates and displays data at the interval of one second.

In the case of Monitor stopped: Stops the update processing.

#### ■ Unit error screen



#### Common specifications of Unit error

##### For "Error" or "Occurred";

Warnings are displayed in blue, and others are displayed in red.



Displays the first occurrence time (yy/mm/dd hh:mm:ss).

\* Excluding "Self-diagnostic" and "Unit installation restriction"

Click the "[Detail](#)" link to display the detail of the error.

### **[Clear errors] button**

Clears unit errors, and redisplay the list.

### **[Save] button**

Saves the displayed unit error data. (CSV format)

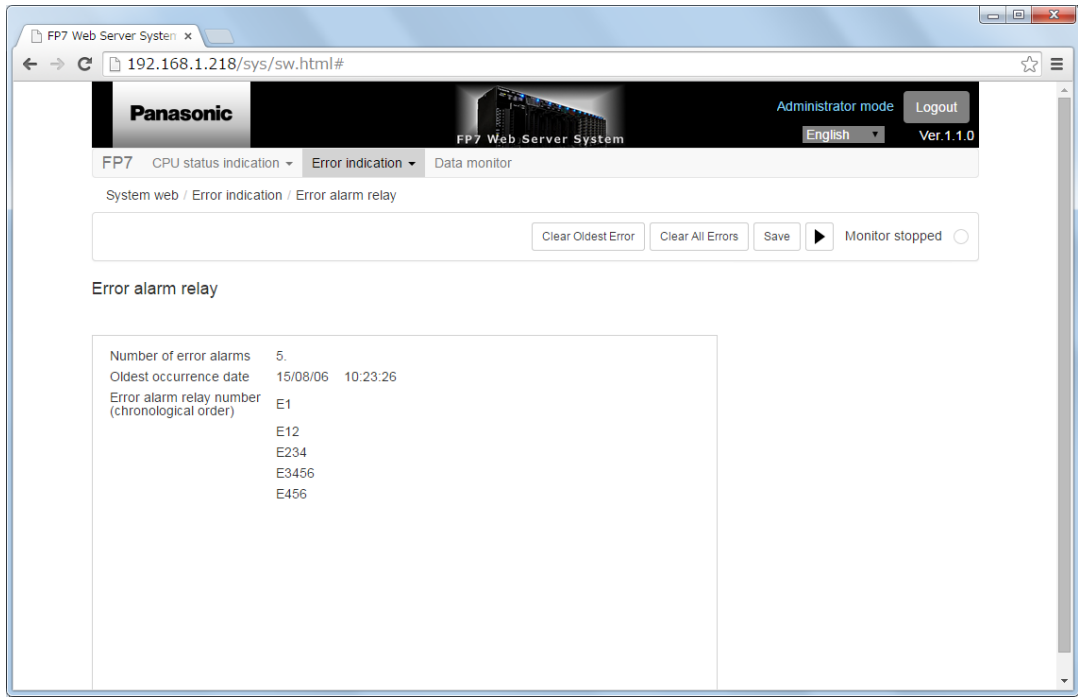
- |     |                               |   |   |
|-----|-------------------------------|---|---|
| 1)  | Self_diagnostic               | : | Displays the Self_diagnostic state (Normal/Error).                |
| 2)  | CPU hardware 1                | : | Displays the CPU hardware 1 state (Normal/ Error).                |
| 3)  | CPU hardware 2                | : | Displays the CPU hardware 2 state (Normal/ Error).                |
| 4)  | Unit alarm                    | : | Displays the Unit alarm state (Normal/ Error).                    |
| 5)  | Unit error                    | : | Displays the Unit error state (Normal/ Error).                    |
| 6)  | Unit warning                  | : | Displays the Unit warning state (Normal/ Error).                  |
| 7)  | Unit verification             | : | Displays the Unit verification state (Normal/ Error).             |
| 8)  | Unit installation restriction | : | Displays the Unit installation restriction state (Normal/ Error). |
| 9)  | Syntax check                  | : | Displays the Syntax check state (Normal/ Error).                  |
| 10) | Operation                     | : | Displays the Operation state (Normal/ Error).                     |

### **7.4.2 Error Alarm Relay**

Displays the list of error alarm relays of the FP7.

## 7.4 Error Indication

### ■ Error alarm relay screen



#### ● Dedicated functions of Error alarm relay

##### [Clear All Errors] button

Clears all error alarm relays, and redisplay the list.

##### [Clear Oldest Error] button

Clears the oldest error alarm relay, and redisplay the list.

##### [Save] button

Saves the displayed error alarm relay data in CSV format.

- 1) Number of error alarms : Displays the number of error alarms (max. 19 alarms).
- 2) Oldest occurrence date : Time of the first error alarm relay turned ON.  
Displays (yy/mm/dd hh:mm:ss).
- 3) Error alarm relay number (Occurrence order): : Displays the error alarm relay number turned ON.  
(First, second, third, ..., eighteenth, nineteenth)

## 7.5 Data monitor Screen

Displays the list of monitored device information of the FP7.

### ■ Data monitor Screen

FP7 CPU status indication Error indication Data monitor

System web / Data monitor

Data monitor  Monitor stopped

Monitor

Device	Current value	Data type	Comment	Edit
<input type="checkbox"/> G WX0	16321	SS		<input type="button" value="Device"/>
<input type="checkbox"/> G WY1	111	SS		<input type="button" value="Device"/>
<input type="checkbox"/> G WR0	2262	UL		<input type="button" value="Device"/>
<input type="checkbox"/> G WR1	0	US		<input type="button" value="Device"/>
<input type="checkbox"/> G DT7	123	SS		<input type="button" value="Device"/>
<input type="checkbox"/> G DT8	456	SS		<input type="button" value="Device"/>
<input type="checkbox"/> G DT9	789	SS		<input type="button" value="Device"/>
<input type="checkbox"/> G DT0	08FE	16HEX		<input type="button" value="Device"/>
<input type="checkbox"/> G DT0	000008FE	32HEX		<input type="button" value="Device"/>
<input type="checkbox"/> G DT0	0000 1000 1111 1110	16BIT		<input type="button" value="Device"/>
<input type="checkbox"/> G DT0	0000 0000 0000 0000 0000 1000 1111 1110	32BIT		<input type="button" value="Device"/>

#### ● Dedicated functions of Data monitor

##### [Monitor executing/stopped] button

In the case of Monitor executing: Updates and displays data in a best-effort way.

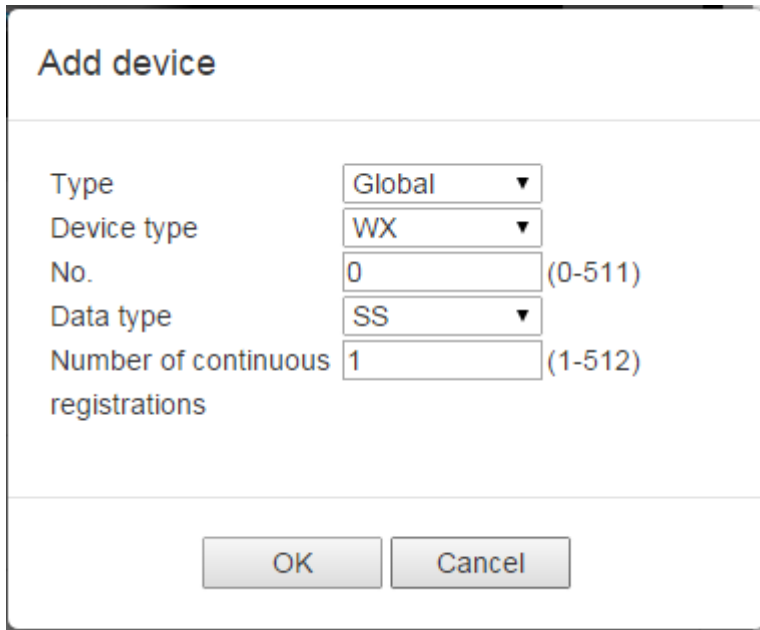
In the case of Monitor stopped: Stops the update processing.

##### [Add device] button

Pops up the window for adding a device.

## 7.5 Data monitor Screen

---



**Add device**

Type: Global ▼

Device type: WX ▼

No.: 0 (0-511)

Data type: SS ▼

Number of continuous registrations: 1 (1-512)

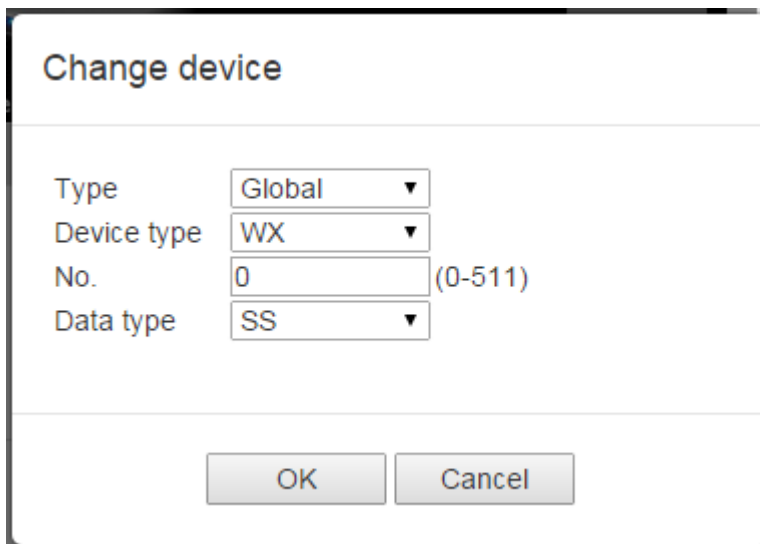
OK Cancel

### [Delete] button

Deletes the line of the device checked in the check box from the list.

### [Device] button

Pops up the window for editing a device.



**Change device**

Type: Global ▼

Device type: WX ▼

No.: 0 (0-511)

Data type: SS ▼

OK Cancel

Selectable device types are as follows.

Device type : WX, WY, WR, WL, WS, TS, TE, CS, CE, SD, DT, LD

Selectable data types are as follows.

Data type : SS, US, SL, UL, 16HEX, 32HEX

1) Device : Displays the selected device.

G : Global device  
SLT12 : Unit device (slot 12) (Note 1)  
PB1 : Local device (PT1) (Note 1)

- 2) Current value : Current value of the selected device.  
Displays the update while monitoring is being executed.
- 3) Data type : Displays the specified data type.
- 4) Comment : Displays the device comment. (Note 2)
- 5) Edit : Displays the button for editing devices for each monitor data.

(Note 1) Only global device (data) can be selected.

(Note 2) There is no comment display function.

(MEMO)

## Record of Changes

The manual code is shown at the bottom of the cover page.

Date	Manual code	Revision details
September 2015	-	For Web Creator Ver. 2.0.0
December 2015	-	For Web Creator Ver. 2.1.0
June 2016	-	For Web Creator Ver. 3.1.0
August 2018	WUME-FP7WEB-01	For Web Creator Ver. 3.2.0 <ul style="list-style-type: none"> <li>Added descriptions on the new product (FPWIN ELC500).</li> </ul>
February 2019	WUME-FP7WEB-02	For Web Creator Ver. 3.3.0 Added parts. "3.5.7.2.9 Integration Graph Parts" "3.5.7.2.10 SD Card Logging Graph Parts" "3.5.7.2.12 General use Camera Parts"
September 2019	WUME-FP7WEB-03	For Web Creator Ver. 3.4.0 Added parts. "3.5.7.2.11 Operation History"
April 2020	WUME-FP7WEB-04	For Web Creator Ver. 3.4.2 Changed parts "3.5.7.2.11.1 Alarm Function": Operation button "3.5.7.2.11.2 Gantt Chart Function": Operation button Added error codes. "3.5.7.2.11.1 Alarm Function" "3.5.7.2.11.2 Gantt Chart Function"
October 2020	WUME-FP7WEB-05	For Web Creator Ver. 3.4.3 Added "[Error handling]" to web parts (the alarm history and Gantt chart parts). "3.5.7.2.11.1 Alarm Function" "3.5.7.2.11.2 Gantt Chart Function"
November 2022	WUME-FP7WEB-06	Changed manual formatting Changed the configuration of the table of contents of manual. Changed product type following FP7 update
October 2023	WUME-FP7WEB-07	For Web Creator Ver. 3.4.6 <ul style="list-style-type: none"> <li>Ensured consistency in descriptions and screens between the manual and the program.</li> </ul> <p>"4.2 Folder Structure of Software Control Web Creator"</p> <p>"5.15 Function for Confirming Content Size"</p> <p>"6.1.3 Operations When Operating Parts"</p>

Date	Manual code	Revision details
		<p>"6.10.1 Range setting (low/middle/high)"</p> <p>"6.13.5 Change of Initial Display Position"</p> <p>"6.23.4 Properties of Camera Parts"</p> <ul style="list-style-type: none"> <li>● Changed supported browsers.</li> </ul> <p>"Product Configuration of Web Server Function and Precautions for Use"</p> <ul style="list-style-type: none"> <li>● Added and corrected descriptions.</li> </ul> <p>"5.5.10 Importing Projects"</p> <p>"6.1.1 Multilingualization of Parts Display"</p> <p>"6.15 Integration Graphs"</p> <p>"6.19.2 Scroll"</p> <p>"6.19.4 Properties of Message Parts"</p> <p>"6.21.12 Properties of Gantt Chart Parts"</p> <p>"6.23.2 Available Functions for Each Model"</p> <p>"6.25.2 Properties of Text Parts"</p>
April 2024	WUME-FP7WEB-08	Change in Corporate name



## Order Placement Recommendations and Considerations

The Products and Specifications listed in this document are subject to change (including specifications, manufacturing facility and discontinuing the Products) as occasioned by the improvements of Products. Consequently, when you place orders for these Products, Panasonic Industry Co., Ltd. asks you to contact one of our customer service representatives and check that the details listed in the document are commensurate with the most up-to-date information.

### [Safety precautions]

Panasonic Industry Co., Ltd. is consistently striving to improve quality and reliability. However, the fact remains that electrical components and devices generally cause failures at a given statistical probability. Furthermore, their durability varies with use environments or use conditions. In this respect, check for actual electrical components and devices under actual conditions before use. Continued usage in a state of degraded condition may cause the deteriorated insulation. Thus, it may result in abnormal heat, smoke or fire. Carry out safety design and periodic maintenance including redundancy design, design for fire spread prevention, and design for malfunction prevention so that no accidents resulting in injury or death, fire accidents, or social damage will be caused as a result of failure of the Products or ending life of the Products.

The Products are designed and manufactured for the industrial indoor environment use. Make sure standards, laws and regulations in case the Products are incorporated to machinery, system, apparatus, and so forth. With regard to the mentioned above, confirm the conformity of the Products by yourself.

Do not use the Products for the application which breakdown or malfunction of Products may cause damage to the body or property.

- i) usage intended to protect the body and ensure security of life
- ii) application which the performance degradation or quality problems, such as breakdown, of the Products may directly result in damage to the body or property

It is not allowed the use of Products by incorporating into machinery and systems indicated below because the conformity, performance, and quality of Products are not guaranteed under such usage.

- i) transport machinery (cars, trains, boats and ships, etc.)
- ii) control equipment for transportation
- iii) disaster-prevention equipment / security equipment
- iv) control equipment for electric power generation
- v) nuclear control system
- vi) aircraft equipment, aerospace equipment, and submarine repeater
- vii) burning appliances
- viii) military devices
- ix) medical devices (except for general controls)
- x) machinery and systems which especially require the high level of reliability and safety

### [Acceptance inspection]

In connection with the Products you have purchased from us or with the Products delivered to your premises, please perform an acceptance inspection with all due speed and, in connection with the handling of our Products both before and during the acceptance inspection, please give full consideration to the control and preservation of our Products.

### [Warranty period]

Unless otherwise stipulated by both parties, the warranty period of our Products is three years after the purchase by you or after their delivery to the location specified by you. The consumable items such as battery, relay, filter and other supplemental materials are excluded from the warranty.

### [Scope of warranty]

In the event that Panasonic Industry Co., Ltd. confirms any failures or defects of the Products by reasons solely attributable to Panasonic Industry Co., Ltd. during the warranty period, Panasonic Industry Co., Ltd. shall supply the replacements of the Products, parts or replace and/or repair the defective portion by free of charge at the location where the Products were purchased or delivered to your premises as soon as possible.

However, the following failures and defects are not covered by warranty and we are not responsible for such failures and defects.

- (1) When the failure or defect was caused by a specification, standard, handling method, etc. which was specified by you.
- (2) When the failure or defect was caused after purchase or delivery to your premises by an alteration in construction, performance, specification, etc. which did not involve us.
- (3) When the failure or defect was caused by a phenomenon that could not be predicted by the technology at purchasing or contracted time.
- (4) When the use of our Products deviated from the scope of the conditions and environment set forth in the instruction manual and specifications.
- (5) When, after our Products were incorporated into your products or equipment for use, damage resulted which could have been avoided if your products or equipment had been equipped with the functions, construction, etc. the provision of which is accepted practice in the industry.
- (6) When the failure or defect was caused by a natural disaster or other force majeure.
- (7) When the equipment is damaged due to corrosion caused by corrosive gases etc. in the surroundings.

The above terms and conditions shall not cover any induced damages by the failure or defects of the Products, and not cover your production items which are produced or fabricated by using the Products. In any case, our responsibility for compensation is limited to the amount paid for the Products.

### [Scope of service]

The cost of delivered Products does not include the cost of dispatching an engineer, etc. In case any such service is needed, contact our sales representative.

Panasonic Industry Co., Ltd.

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April, 2024

WUME-FP7WEB-08