

iQSS Backup/Restoration (PLC↔Sensor) Function

Sample Screen Manual

Mitsubishi Electric Corporation

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REVISIONS

Sample Screen Manual

Date	Control No.*	Description
2013/10	BCN-P5999-0120	First edition

* The Control No. is noted at the lower right of each page.

Project data

Date	Project data	GT Designer3*	Description
2013/10	iQSS_Backup_V_Ver1_E.GTX	1.100E	First edition

* The version number of screen design software used to create the project data is listed. Please use the screen design software with the listed version or later.

3. GOT

3.1 System Applications That Are Automatically Selected

Type	System application name		
Standard Function	Standard System Application		
	Standard Font		Japanese
Communication Driver	Ethernet Connection		Ethernet(MELSEC), Q17nNC, CRnD-700, Gateway
Extended Function	Standard Font		Chinese (Simplified)
	Outline Font	Gothic	Alphanumeric/Kana
			Japanese (Kanji)
			Chinese (Simplified)

3.2 Controller Setting of Screen Design Software

Detail Setting

Item	Set value	Remarks
GOT NET No.	1	
GOT Station	2	
GOT Ethernet Setting	Refer to table below	
GOT Communication Port No.	5001	
Retry (Times)	3	
Startup Time (Sec)	3	
Timeout Time (Sec)	3	
Delay Time (ms)	0	

GOT Ethernet Setting

Item	Set value	Remarks
Reflect GOT Ethernet setting in the GOT	Checked	
GOT IP Address	192.168.3.18	
Subnet Mask	255.255.255.0	
Default Gateway	0.0.0.0	
Peripheral S/W Communication Port No.	5015	
Transparent Port No.	5014	

3.3 Ethernet Setting of Screen Design Software

	Host	Net No.	Station	Unit Type	IP Address	Port No.	Communication
1	*	1	1	LCPU	192.168.3.39	5006	UDP

4. SCREEN SPECIFICATIONS

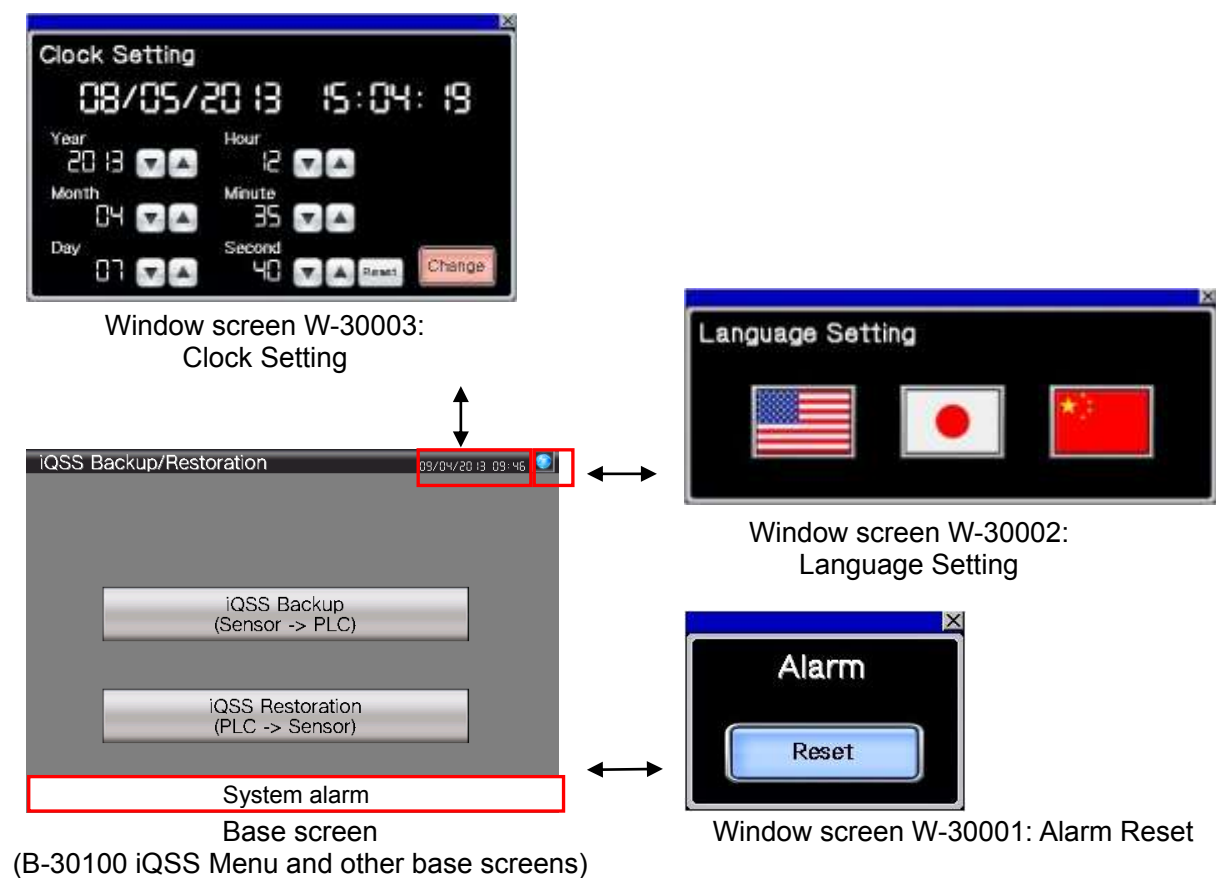
4.1 Display Language

The language of the text displayed on the screen can be switched between Japanese, English and Chinese (Simplified). The text strings in each language are registered in the columns No. 1 to No. 3 in the comment groups No. 254 and No. 255 as shown below. When the column No. is set in the language switching device, the language corresponding to the column No. will appear.

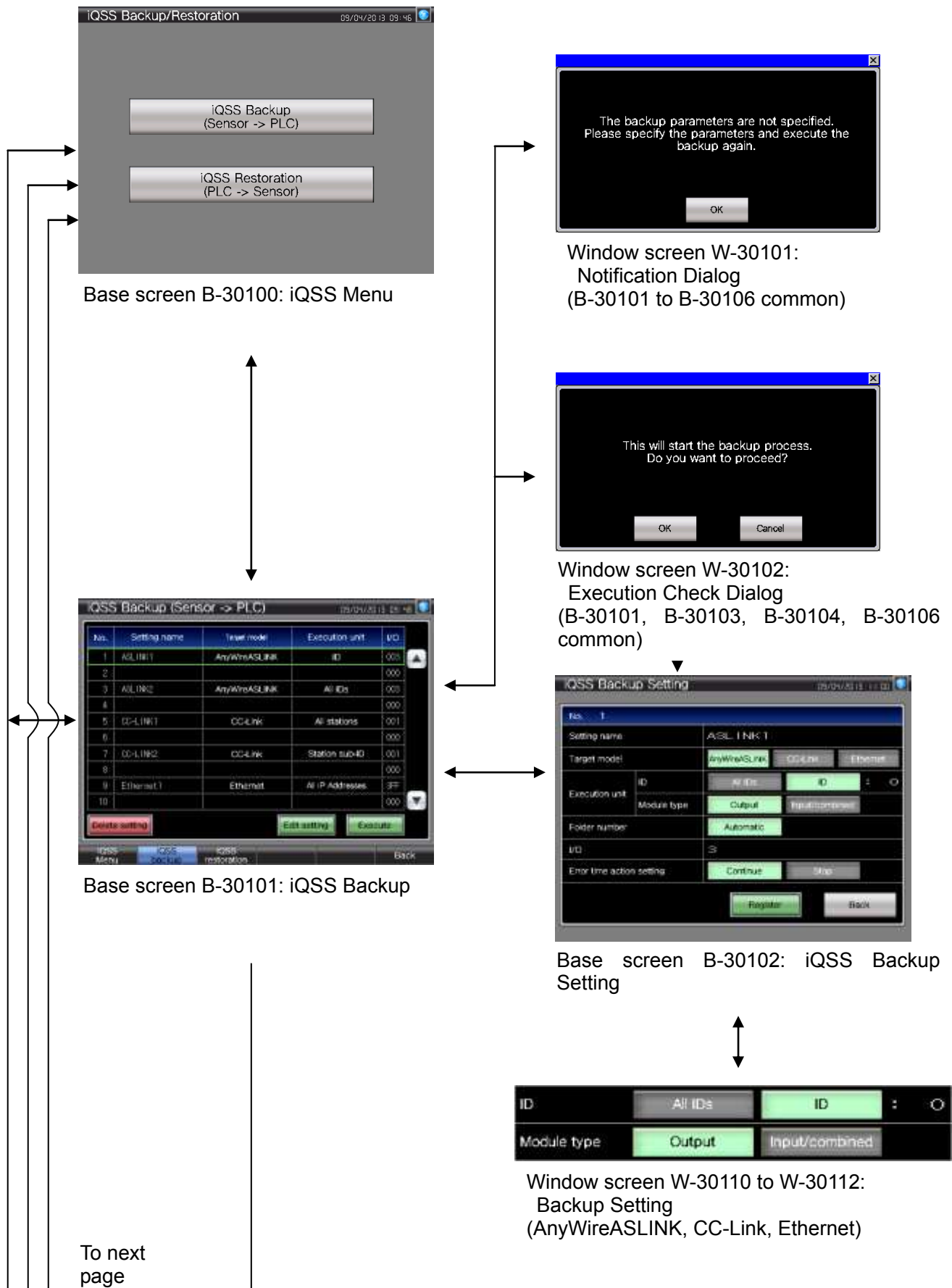
Column No.	Language
1	English
2	Japanese
3	Chinese (Simplified)

4.2 Screen Transition

4.2.1 Screen transition (common)



4.2.2 Screen transition (individual)



From
previous
page

iQSS Backup Progress 2013/09/04 09:51

Backup target	
Setting name	ASLINK1
Execution unit	ID
Target device	ID
Module type	Output
I/O	3

Backup processing	
Start datetime	2013/09/04 09:51
Progress	100%
Total number of target devices	1
Backup succeeded	1
Backup failed	0

iQSS Menu

Base screen B-30103:
iQSS Backup Progress

Device number	Module type	Output
ID	ID	ID
Execution unit	ID	ID

Window screen W-30113 to W-30115:
Backup Progress
(AnyWireASLINK, CC-Link, Ethernet)

This will delete the selected iQSS backup history data (including the iQSS restore setting).
Do you want to proceed?
If you delete the history, please check the target model and the folder number and also delete the corresponding backup folder in the SD card that is inserted in the programmable controller.

OK Cancel

Window screen W-30100:
Data Deletion Check Dialog
(B-30101, B-30104 common)

iQSS Restoration (PLC -> Sensor) 2013/09/04 09:51

No.	Date/Time	Setting name	Target model	File number	I/O	Start datetime
1	2013/09/04 09:51	Ethernet1	E	00	003	01-01-00
2	2013/09/04 09:50	ASLINK1	A	20	003	01-01-00
3	2013/09/04 09:49	ASLINK1	A	20	003	01-01-00
4	2000/00/00 00:00			00	000	00-00-00
5	2000/00/00 00:00			00	000	00-00-00
6	2000/00/00 00:00			00	000	00-00-00
7	2000/00/00 00:00			00	000	00-00-00
8	2000/00/00 00:00			00	000	00-00-00
9	2000/00/00 00:00			00	000	00-00-00
10	2000/00/00 00:00			00	000	00-00-00

Delete history Restore history Check setting Execute

iQSS Menu Backup iQSS Restoration Back

Base screen B-30104: iQSS Restoration

iQSS Restoration Setting 2013/09/04 09:51

No. 3

Setting name	ASLINK1
Target model	AnyWireASLINK
Execution unit	ID
Module type	Output
Folder number	20
I/O	3
Error time action setting	Continue Stop

Back

Base screen B-30105:
iQSS Restoration Setting

Module type	Output
ID	ID

Window screen W-30116 to W-30118:
Restore Setting
(AnyWireASLINK, CC-Link, Ethernet)

iQSS Restoration Progress 2013/09/04 09:52

Restoration target	
Setting name	ASLINK1
Execution unit	ID
Target device	ID
Module type	Output
I/O	3

Restoration processing	
Start datetime	2013/09/04 09:52
Progress	100%
Total number of target devices	1
Restoration succeeded	1
Restoration failed	0

iQSS Menu

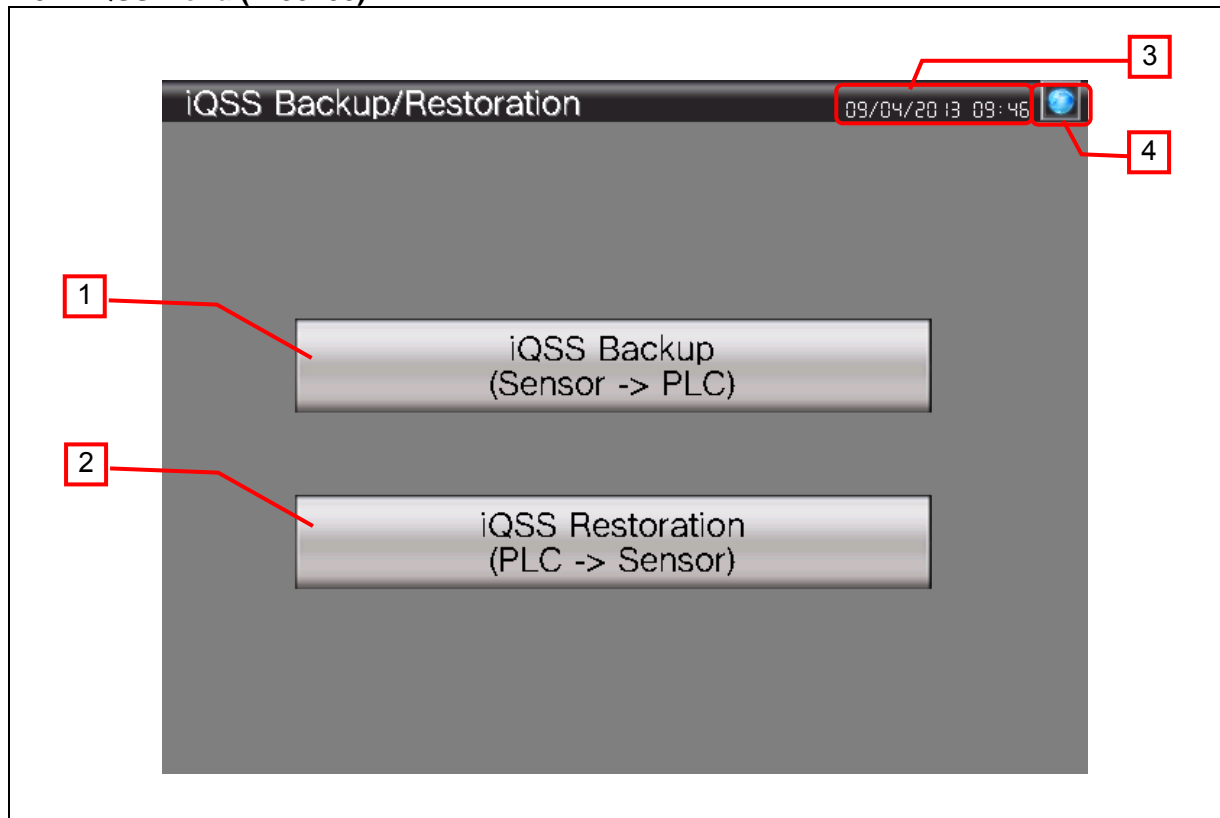
Base screen B-30106:
iQSS Restoration Progress

Execution unit	ID
Target device	ID
Module type	Output

Window screen W-30119 to W-30121:
Restore Progress
(AnyWireASLINK, CC-Link, Ethernet)

4.3 Explanation of Screens

4.3.1 iQSS Menu (B-30100)



Outline

This is the [iQSS Backup/Restoration] menu screen of the iQSS Backup/Restoration (PLC↔Sensor) function.

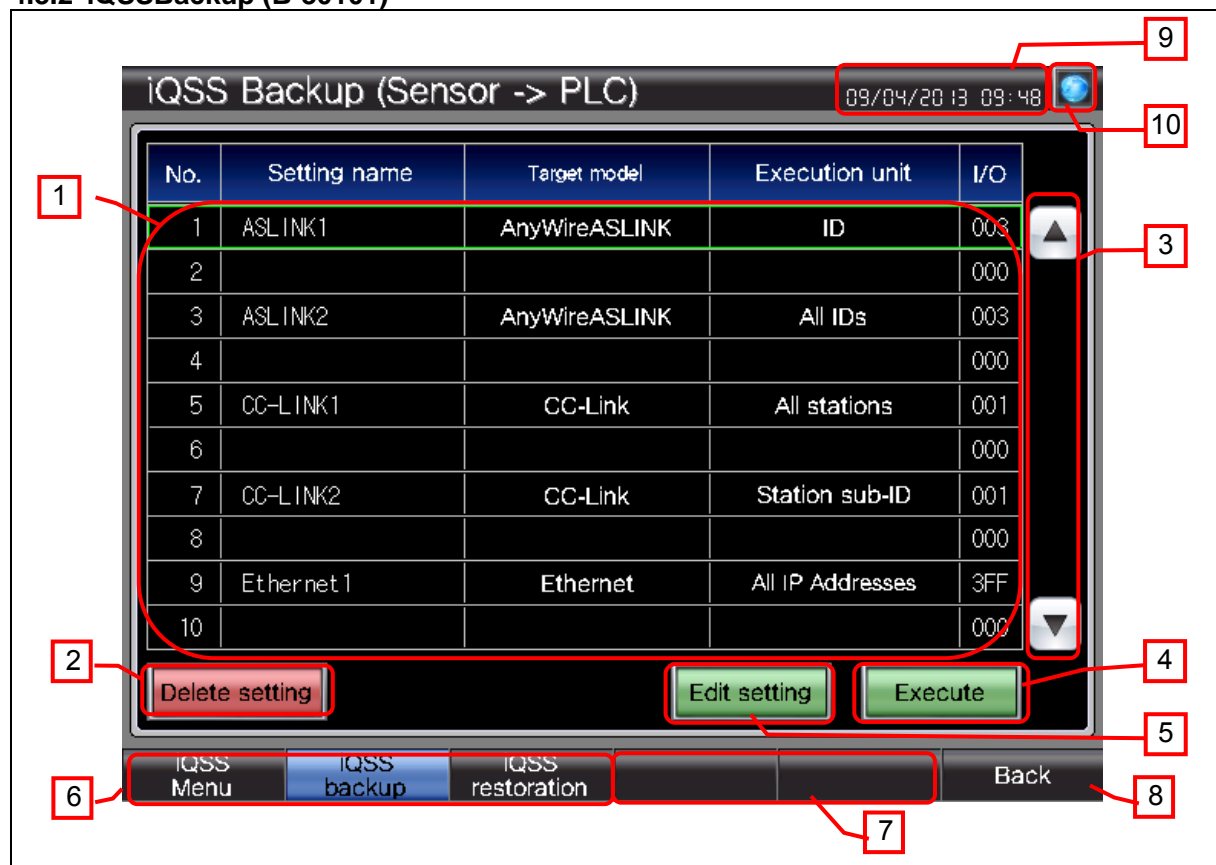
Description

1. Switches to the [iQSS Backup] screen.
2. Switches to the [iQSS Restoration] screen.
3. Displays the current date and time. Touch the area to open the [Clock Setting] window.
4. Opens the [Language Setting] window.

Remarks

- The iQSS backup setting and the iQSS backup history are read from the recipe file. For more details about the recipe function, please refer to "4.6 Recipe List".
- The currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.

4.3.2 iQSSBackup (B-30101)



Outline

This screen is used to execute the iQSS backup according to the parameters of the iQSS backup setting in the selected state. This screen is also used to edit and delete the iQSS backup setting.

Description

1. Displays the iQSS backup setting 10 cases at a time, up to 100 cases in a list format. By touching a iQSS backup setting, a cursor appears and the touched line becomes the selected state.
2. Deletes the iQSS backup setting in the selected state.
3. Scrolls the page of the list up and down.
4. Switches to the [iQSS Backup Progress] screen and executes the iQSS backup according to the parameters of the iQSS backup setting in the selected state simultaneously. When the switch is touched, if the iQSS backup setting in the selected state has not been registered, an error dialog appears.
5. Switches to the [iQSS Backup Setting] screen.
6. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
7. Shows unused switches for base screen switching.
8. Switches to the previously opened screen.
9. Displays the current date and time. Touch the area to open the [Clock Setting] window.
10. Opens the [Language Setting] window.

Remarks

- The iQSS backup history can be saved up to 100 cases for each target model. When executing the 101th case of the backup, a message appears to inform that the oldest data of the same target model will be overwritten.
- The delete operation deletes the iQSS backup setting that is saved in a recipe file. For more details about the recipe function, please refer to "4.6 Recipe List".
- Object scripts are set for word lamps of the "Excursion unit". For more details about scripts, please refer to "4.7 Script List".
- If the [Alarm Reset] window, the [Language Setting] window, or the [Clock Setting] window is displayed, the currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.

4.3.3 iQSS Backup Setting (B-30102)

The screenshot shows the 'iQSS Backup Setting' screen. It features a title bar with the date and time '09/04/2013 11:00' and a clock icon (10). Below the title bar, there is a 'No.' field with the value '1' (1). The 'Setting name' field contains 'ASLINK1' (2). The 'Target model' section has three buttons: 'AnyWireASLINK' (3), 'CC-Link', and 'Ethernet'. The 'Execution unit' section has two buttons: 'All IDs' (4) and 'ID'. The 'Module type' section has two buttons: 'Output' (5) and 'Input/combined'. The 'Folder number' field contains 'Automatic' (6). The 'I/O' field contains '3' (7). The 'Error time action setting' section has two buttons: 'Continue' (8) and 'Stop'. At the bottom, there are two buttons: 'Register' (9) and 'Back' (11).

Outline

This screen registers the iQSS backup setting.

Description

1. Displays the registration number.
2. Enters the name of the iQSS backup setting.
3. Displays the type of the network module connected to the iQSS backup target device.
4. Specifies the iQSS backup target.
5. The setting is made to automatically assign a folder number, which is the name of the destination folder to store the iQSS backup data. The number from 0 to 99 is automatically assigned to the folder number.
6. Enters the number that is calculated by dividing the I/O No. of the network module connected to the iQSS backup target device by 16. If the target model is set to Ethernet, 3FFH is entered automatically.
7. Specifies the action at the occurrence of an error when executing the iQSS backup.
 - Continue: Continues the processing even if the backup of some devices fails while executing the backup of multiple iQSS compatible sensors.
 - Stop: Stops the processing if the backup of some devices fails while executing the backup of multiple iQSS compatible sensors.
8. Switches to the previously opened screen.
9. Saves the setting contents. The completion dialog is displayed when saving is completed. An error dialog is displayed if the setting contents are insufficient or inappropriate.
10. Displays the current date and time. Touch the area to open the [Clock Setting] window.
11. Opens the [Language Setting] window.

Remarks

- The display of the "Execution unit" setting items is switched by using the superimpose window 1 for each target model.
- For the setting items of the "Execution unit" for each target model, please refer to "4.3.14 Backup Setting (AnyWireASLINK) (W-30110)" to "4.3.16 Backup Setting (Ethernet) (W-30112)".
- Screen scripts and the recipe function are used to register the iQSS backup setting. For more details about scripts, please refer to "4.7 Script List", and for the recipe function, please refer to "4.6 Recipe List".
- If the [Alarm Reset] window, the [Language Setting] window, or the [Clock Setting] window is displayed, the currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.

4.3.4 iQSS Backup Progress (B-30103)

The screenshot shows the 'iQSS Backup Progress' screen. At the top right, a date and time display shows '09/04/2013 09:57' with a clock icon (8) and a language icon (9). Below this is a 'Backup target' section containing a table with 'Setting name' (ASLINK1), 'Execution unit' (ID), 'Target device' (ID and Module type), and 'I/O' (Output 3). A red box (2) highlights the 'ASLINK1' setting. Below the 'Backup target' section is a 'Backup processing' section with a table showing 'Start date/time' (2013/09/04 09:56) (3), 'Progress' (100% with a green bar) (4), 'Total number of target devices' (1) (5), 'Backup succeeded' (1) (6), and 'Backup failed' (0). At the bottom left is an 'iQSS Menu' button (1) and at the bottom right is a 'Backup suspended' button (7).

Outline

This screen displays the progress and results of the iQSS backup.

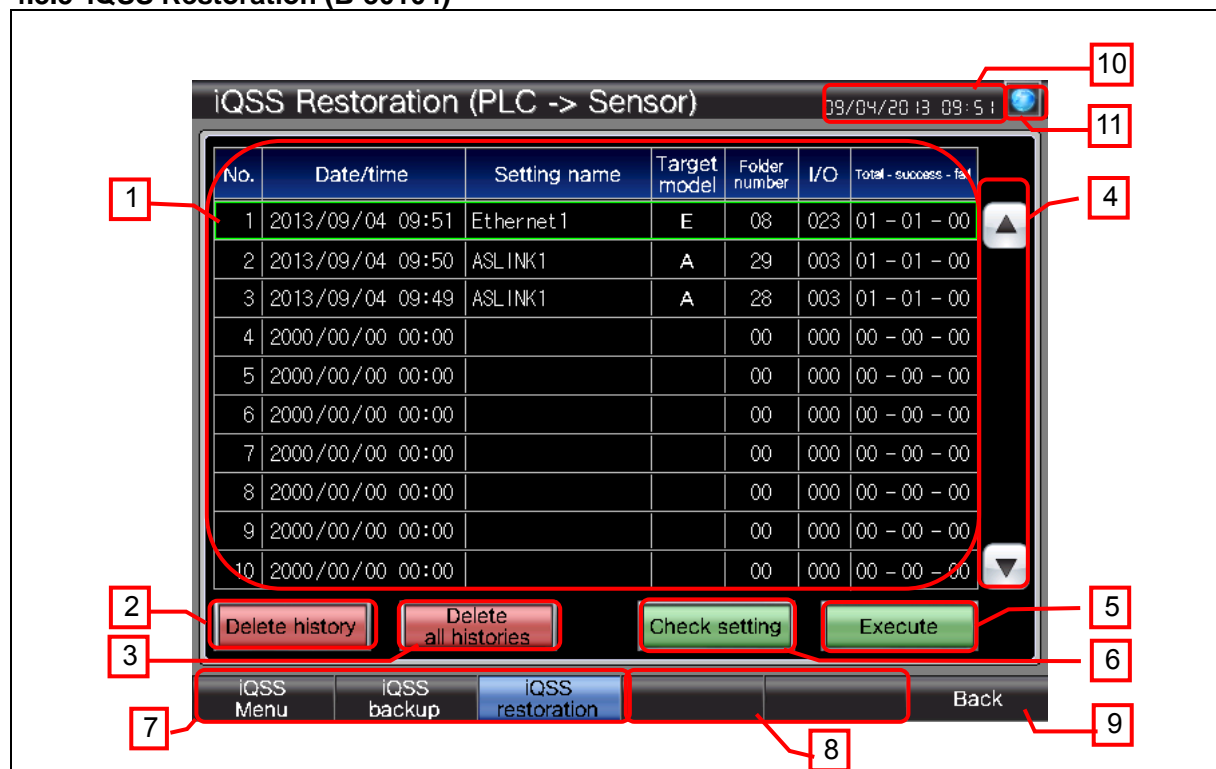
Description

1. Switches to the [iQSS Menu] screen. The switch is hidden while executing the iQSS backup and is displayed after the iQSS backup is completed.
2. Displays the iQSS backup setting.
3. Displays the date and time that the iQSS backup was started.
4. Displays the progress of the backup for a single iQSS backup target device with “%” and a bar graph. When the backup for a single iQSS backup target device is completed, “100%” is displayed and the color of the bar graph is changed from black to blue. If there are multiple target devices of the iQSS backup, the progress is displayed for each device.
5. Displays the total number of the iQSS backup target devices.
6. Displays the number of devices that the iQSS backup succeeded or failed.
7. Cancels the iQSS backup. The switch is displayed while executing the iQSS backup and is hidden after the iQSS backup is completed.
8. Displays the current date and time. Touch the area to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

Remarks

- The iQSS backup will not be canceled until the “OK” switch is touched in the confirmation window.
- If the iQSS backup fails, there is a case that the total number of target devices, backup succeeded, and backup failed all become zero.
- The execution unit and the target device of the backup target are displayed by using the superimpose window 1. The superimpose window 1 is switched depending on the iQSS backup setting.
- Screen scripts and the recipe function are used to save the iQSS backup history. For more details about scripts, please refer to “4.7 Script List”, and for the recipe function, please refer to “4.6 Recipe List”.
- If the [Alarm Reset] window, the [Language Setting] window, or the [Clock Setting] window is displayed, the currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.

4.3.5 iQSS Restoration (B-30104)



Outline

This screen is used to execute the iQSS restoration according to the parameters of the iQSS restoration setting that corresponds with the iQSS backup history. This screen is also used to execute confirmation of the iQSS restoration setting that corresponds with the iQSS backup history and deletion of the iQSS backup history.

Description

1. Displays the iQSS backup history 10 cases at a time, up to 300 cases in a list format. By touching a iQSS backup history, a cursor appears and the touched line becomes the selected state. The iQSS backup history is displayed most recent first.
2. Deletes the iQSS backup history in the selected state. When one case of the backup history is deleted, the cases older than the deleted history will be moved up line by line.
3. Deletes all iQSS backup history.
4. Scrolls the page of the list up and down.
5. Switches to the [iQSS Restoration Progress] screen and executes the iQSS restoration according to the parameters of the restoration setting that corresponds with the iQSS backup history in the selected state simultaneously. In addition, if the iQSS restoration is executed while selecting the position where no iQSS backup history is displayed, an error dialog appears.
6. Switches to the [iQSS Restoration Setting] screen.
7. Switches to each screen. The blue switch indicates the currently displayed screen, thus selecting this switch will not switch the screen.
8. Shows unused switches for base screen switching.
9. Switches to the previously opened screen.
10. Displays the current date and time. Touch the area to open the [Clock Setting] window.
11. Opens the [Language Setting] window.

Remarks

- When executing the iQSS backup, the iQSS backup history is created only when the iQSS backup data is created in the SD card that is in the PLC.
- The restoration cannot be executed using the iQSS restoration setting that corresponds with the iQSS backup history which ended abnormally or was suspended.
- The delete operation deletes the iQSS backup history that is saved in a SD card in the GOT. Please note that the actual iQSS backup data is in the SD card in the PLC CPU and it cannot be deleted from the GOT according to the specification. Please also note that if the iQSS backup data is deleted from the SD card, the restoration cannot be executed from the corresponding iQSS backup history.
- For the folder configuration of the SD card in the PLC CPU, please refer to “6.2 iQSS Backup Folder Configuration”.
- If the [Alarm Reset] window, the [Language Setting] window, or the [Clock Setting] window is displayed, the currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.

4.3.6 iQSS Restoration Setting (B-30105)

The screenshot shows the 'iQSS Restoration Setting' screen. At the top, there is a title bar with the text 'iQSS Restoration Setting' and a date/time display '09/04/2013 09:51' next to a clock icon. Below the title bar, the screen is divided into several sections. A 'No.' field shows '3'. The 'Setting name' field shows 'ASLINK1'. The 'Target model' field shows 'AnyWireASLINK'. The 'Execution unit' section has two sub-sections: 'ID' with 'All IDs' and 'ID' (selected), and 'Module type' with 'Output'. The 'Folder number' field shows '29'. The 'I/O' field shows '3'. The 'Error time action setting' section has two buttons: 'Continue' (selected) and 'Stop'. At the bottom left, there is a 'Back' button. Numbered callouts (1-10) point to various elements: 1 points to the 'No.' field, 2 points to the 'Back' button, 3 points to the 'Setting name' field, 4 points to the 'Target model' field, 5 points to the 'Execution unit' section, 6 points to the 'Folder number' field, 7 points to the 'I/O' field, 8 points to the 'Error time action setting' buttons, 9 points to the date/time display, and 10 points to the clock icon.

Outline

This screen is used to confirm the iQSS restoration setting. The contents of the iQSS restoration setting are the same as those when the iQSS backup was executed excluding the folder number.

Description

1. Displays the iQSS backup history No.
2. Switches to the previously opened screen.
3. Displays the name of the iQSS backup setting.
4. Displays the target model when the iQSS backup was executed.
5. Displays the restoration target (the iQSS backup target when the iQSS backup was executed).
6. Displays the number of the folder that the iQSS backup data was stored when executing the iQSS backup.
7. Displays the I/O No. of the network module to which the iQSS backup target device was connected when executing the iQSS backup.
8. Displays the action at the occurrence of an error when executing the iQSS restoration. The settings are the same as those when the iQSS backup was executed.
9. Displays the current date and time. Touch the area to open the [Clock Setting] window.
10. Opens the [Language Setting] window.

Remarks

- The display is the same as that of the [iQSS Backup Setting] screen.
- The display of the "Execution unit" setting items is switched by using the superimpose window 1 for each target model.
- For the setting items of the "Extcution unit" for each target model, please refer to "4.3.20 Backup Setting (AnyWireASLINK) (W-30116)" to "4.3.22 Backup Setting (Ethernet) (W-30118)".
- If the [Alarm Reset] window, the [Language Setting] window, or the [Clock Setting] window is displayed, the currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.

4.3.7 iQSS Restoration Progress (B-30106)

The screenshot shows the 'iQSS Restoration Progress' screen. At the top right, a date and time display shows '09/04/2013 09:52' with a clock icon (8) and a language icon (9). Below this is the 'Restoration target' section, which contains a table with the following data: Setting name: ASLINK1, Execution unit: ID, Target device: ID (0), Module type: Output, I/O: 3. This section is highlighted with a red box (2). Below the target section is the 'Restoration processing' section, which contains a table with the following data: Start date/time: 2013/09/04 09:52, Progress: 100% (with a green bar graph), Total number of target devices: 1, Restoration succeeded: 1, and Restoration failed: 0. This section is highlighted with a red box (3). At the bottom left, there is a button labeled 'iQSS Menu' (1). At the bottom right, there is a button labeled 'Restoration suspended' (7).

Outline

This screen displays the progress of the iQSS restoration.

Description

1. Switches to the [iQSS Menu] screen. The switch is hidden while executing the iQSS restoration and is displayed after the iQSS restoration is completed.
2. Displays the iQSS restoration setting. The contents of the iQSS restoration setting are the same as those when the iQSS backup was executed.
3. Displays the date and time that the iQSS restoration was started.
4. Displays the progress of the restoration for a single iQSS restoration target device with “%” and a bar graph. When the restoration for a single iQSS restoration target device is completed, “100%” is displayed and the color of the bar graph is changed from black to blue. If there are multiple target devices of the iQSS restoration, the progress is displayed for each device.
5. Displays the total number of the iQSS restoration target devices.
6. Displays the number of devices that the iQSS restoration succeeded or failed.
7. Cancels the iQSS backup. The switch is displayed while executing the iQSS restoration and is hidden after the iQSS restoration is completed.
8. Displays the current date and time. Touch the area to open the [Clock Setting] window.
9. Opens the [Language Setting] window.

Remarks

- The iQSS restoration will not be canceled until the “OK” switch is touched in the confirmation window.
- If an error occurs in the iQSS restoration, there is a case that the total number of target devices, restoration succeeded, and restoration failed all become zero.
- The execution unit and the target device of the restoration target are displayed by using the superimpose window 1. The superimpose window 1 is switched depending on the iQSS backup setting.
- If the [Alarm Reset] window, the [Language Setting] window, or the [Clock Setting] window is displayed, the currently open window closes when the screen is switched.
- If a system alarm occurs, the alarm message will appear at the bottom of the screen. Touch the alarm message to open the [Alarm Reset] window.

4.3.8 Alarm Reset (W-30001)



Outline

This window screen allows resetting the system alarm.

Description

1. Resets the system alarm, and closes the window screen after 1 second.
2. Closes the window screen.

Remarks

4.3.9 Language Setting (W-30002)



Outline

This window screen allows selecting the GOT language.

Description

1. Switches the language, and closes the window screen.
2. Closes the window screen.

Remarks

- The system language is also switched according to the display language.



4.3.10 Clock Setting (W-30003)



Outline

This window allows changing the GOT clock data.

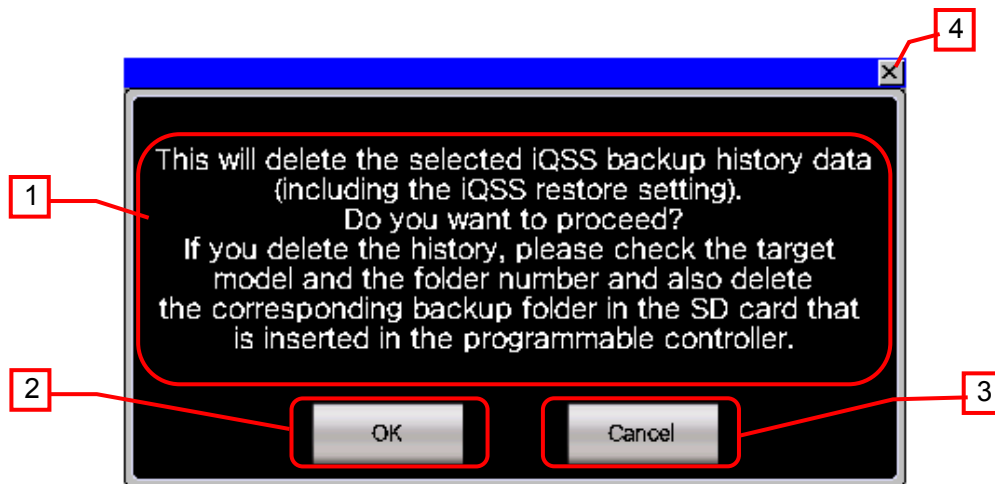
Description

1. Displays the current date and time.
2. Use   switches to change the date and time. Hold down the switches to increment or decrement the value continuously. The [Reset] switch resets the seconds.
3. Applies the set date and time to the GOT clock data, and closes the window after 1 second.
4. Closes the window screen.

Remarks

- The date and time at window opening are initially set as the clock data to be newly set.
- Object scripts are set for the numerical display of the year, month, date, hour, minute and second in the clock data to be newly set. For more details about scripts, please refer to "4.7 Script List".

4.3.11 Data Deletion Check Dialog (W-30100)



Outline

This screen is used to confirm deletion of the iQSS backup setting or the iQSS backup history.

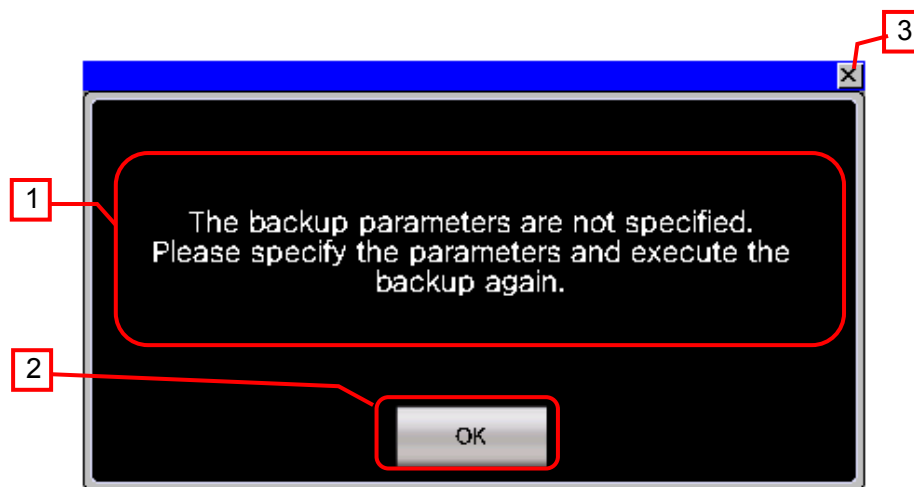
Description

1. Displays messages.
2. Deletes the target data and closes the window screen.
3. Closes the window screen.
4. Closes the window screen.

Remarks

- The message to be displayed differs depending on from which switch the window screen was opened.

4.3.12 Notification Dialog (W-30101)



Outline

This window screen notifies the processing results.

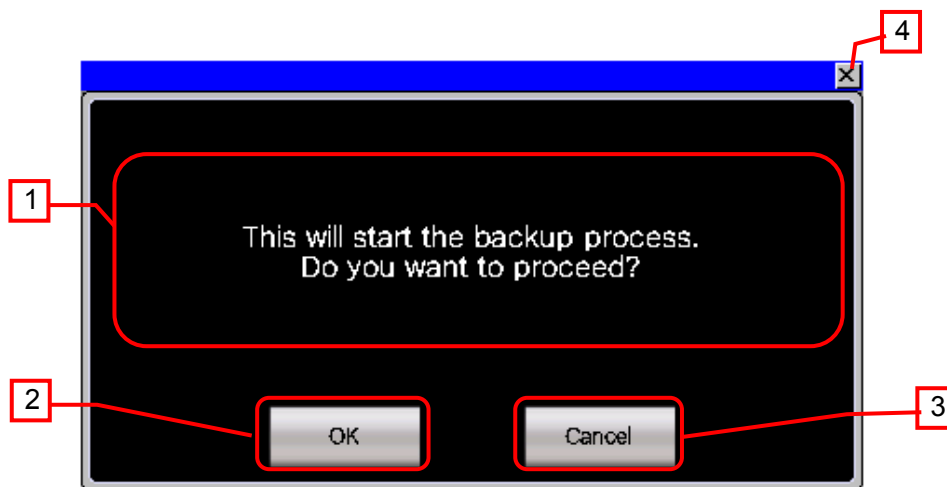
Description

1. Displays messages.
2. Closes the window screen.
3. Closes the window screen.

Remarks

- The contents of the message differ depending on the script that called the window screen. For more details about scripts, please refer to "4.7 Script List".

4.3.13 Execution Check Dialog (W-30102)



Outline

This window screen appears to confirm whether to execute the action.

Description

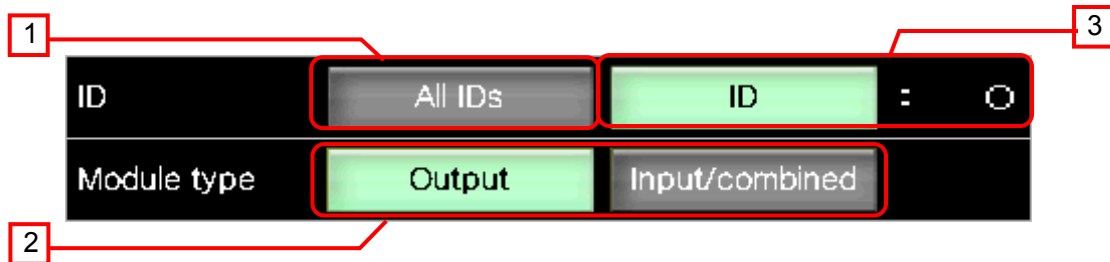
1. Displays messages.
2. Executes various actions and closes the window screen.
3. Closes the window screen.
4. Closes the window screen.

Remarks

- The contents of the message and actions differ depending on the base screen to be displayed.

iQSS Backup Screen:	iQSS backup execution
iQSS Backup Progress Screen:	iQSS backup cancel
iQSS Restoration Screen:	iQSS restoration execution
iQSS Restoration Progress Screen:	iQSS restoration cancel

4.3.14 Backup Setting (AnyWireASLINK) (W-30110)



Outline

This screen sets the iQSS backup target when the target model is AnyWireASLINK.

Description

1. Specifies all iQSS compatible sensors as the target.
2. Sets the module type of the specified iQSS compatible sensor. The switches work only when "ID" is selected.
3. Specifies the iQSS compatible sensor of the specified ID as the target.

Remarks

4.3.15 Backup Setting (CC-Link) (W-30111)

The screenshot shows a dark-themed interface with two rows of settings. The first row is labeled 'Station number' and contains a button labeled 'All stations' (highlighted with a red box and callout 1), a green button labeled 'Station' (highlighted with a red box and callout 2), a colon separator, and a circular icon. The second row is labeled 'Station sub-ID' and contains a green button labeled 'Station sub-ID' (highlighted with a red box and callout 3), a colon separator, and a circular icon.

Outline

This screen sets the iQSS backup target when the target model is CC-Link.

Description

1. Specifies all iQSS compatible sensors as the target.
2. Specifies the iQSS compatible sensor of the specified station as the target.
3. Specifies the iQSS compatible sensor of the specified station sub-ID as the target. To specify the station sub-ID, the station number is also required to be specified.

Remarks

4.3.16 Backup Setting (Ethernet) (W-30112)



Outline

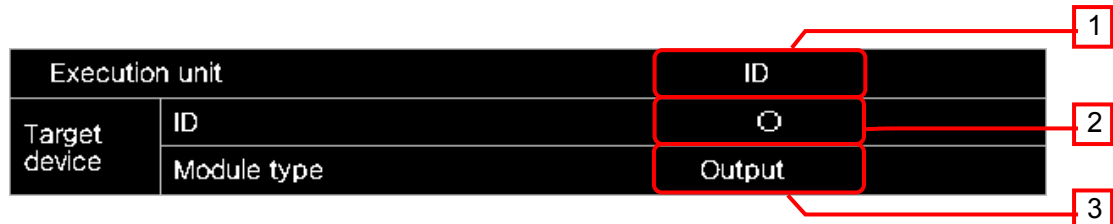
This screen sets the iQSS backup target when the target model is Ethernet.

Description

1. Specifies all iQSS compatible sensors as the target.
2. Sets the IP address. This area works only when "IP Address" is selected.
3. Specifies the iQSS compatible sensor of the specified IP address as the target.

Remarks

4.3.17 Backup Progress (AnyWireASLINK) (W-30113)



Execution unit		ID	1
Target device	ID	○	2
	Module type	Output	3

Outline

This screen displays the setting of the target device that was used to perform the iQSS backup with AnyWireASLINK set as the target model.

Description

1. Displays the execution unit.
2. Displays the ID of the target device. It is displayed when the execution unit is "ID".
3. Displays the module type of the target device. It is displayed when the execution unit is "ID".

Remarks

4.3.18 Backup Progress (CC-Link) (W-30114)

The screenshot shows a dark-themed interface with a table. Callout 1 points to the 'Station sub-ID' header. Callout 2 points to the 'Station number' input field. Callout 3 points to the 'Station sub-ID' input field.

Execution unit		Station sub-ID
Target device	Station number	<input type="text"/>
	Station sub-ID	<input type="text"/>

Outline

This screen displays the setting of the target device that was used to perform the iQSS backup with CC-Link set as the target model.

Description

1. Displays the execution unit.
2. Displays the station number of the target device. It is displayed when the execution unit is "Station" or "Station sub-ID".
3. Displays the module type of the target device. It is displayed when the execution unit is "Station sub-ID".

Remarks

4.3.19 Backup Progress (Ethernet) (W-30115)



The screenshot shows a dark-themed interface. At the top, there is a header bar with 'Execution unit' on the left and 'IP Address' on the right. Below this, a table is displayed. The table has two columns: 'Target device' and 'IP Address'. The 'IP Address' column contains the value '192 . 168 . 3 . 40'. A red box labeled '1' points to the 'IP Address' header. Another red box labeled '2' points to the '192 . 168 . 3 . 40' value.

Execution unit		IP Address
Target device	IP Address	192 . 168 . 3 . 40

Outline

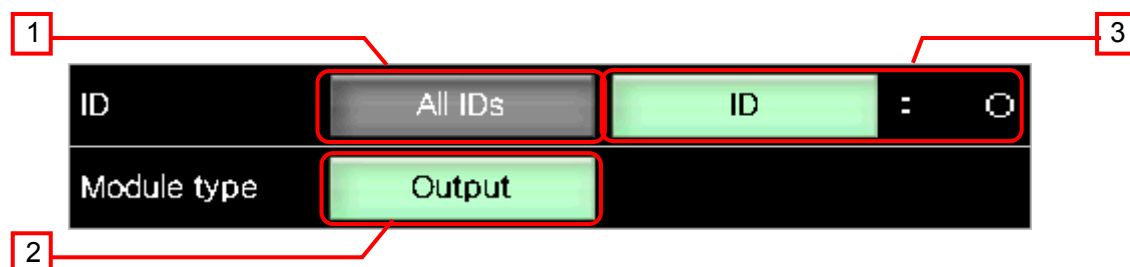
This screen displays the setting of the target device that was used to perform the iQSS backup with Ethernet set as the target model.

Description

1. Displays the execution unit.
2. Displays the IP address of the target device. It is displayed when the execution unit is "IP Address".

Remarks

4.3.20 Restore Setting (AnyWireASLINK) (W-30116)



Outline

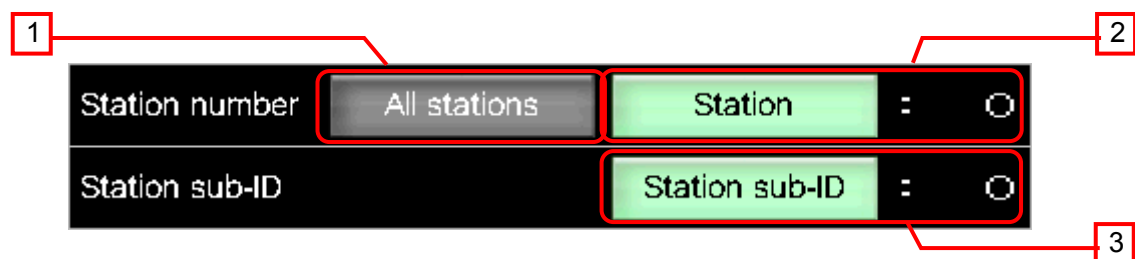
This screen displays the iQSS restoration target when the target model is AnyWireASLINK.

Description

1. Specifies all iQSS compatible sensors as the target.
2. Displays the module type of the target iQSS compatible sensor. It is enabled when “ID” is selected.
3. Specifies the iQSS compatible sensor of the displayed ID as the target.

Remarks

4.3.21 Restore Setting (CC-Link) (W-30117)



Outline

This screen displays the iQSS restoration target when the target model is CC-Link.

Description

1. Specifies all iQSS compatible sensors as the target.
2. Specifies the iQSS compatible sensor of the displayed station number as the target.
3. Specifies the iQSS compatible sensor of the displayed station sub-ID as the target.

Remarks

4.3.22 Restore Setting (Ethernet) (W-30118)



Outline

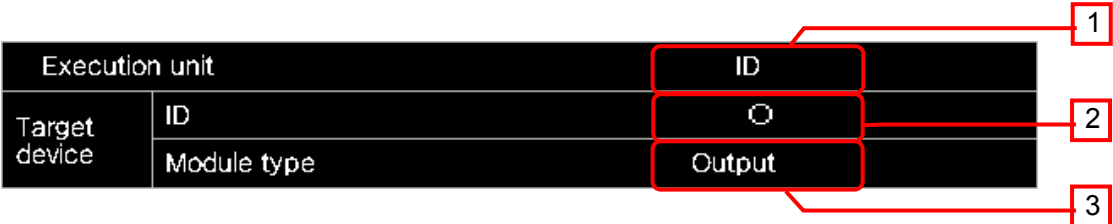
This screen displays the iQSS restoration target when the target model is Ethernet.

Description

1. Specifies all iQSS compatible sensors as the target.
2. Displays the IP address of the target device. It is enabled when "IP Address" is selected.
3. Specifies the iQSS compatible sensor of the displayed IP address as the target.

Remarks

4.3.23 Restore Progress (AnyWireASLINK) (W-30119)



Execution unit		ID	1
Target device	ID	○	2
	Module type	Output	3

Outline
This screen displays the setting of the target device that was used to perform the iQSS restoration with AnyWireASLINK set as the target model.

Description

1. Displays the execution unit.
2. Displays the ID of the target device. It is displayed when the execution unit is "ID".
3. Displays the module type of the target device. It is displayed when the execution unit is "ID".

Remarks

4.3.24 Restore Progress (CC-Link) (W-30120)

Execution unit		Station sub-ID	1
Target device	Station number	○	2
	Station sub-ID	○	3

Outline

This screen displays the setting of the target device that was used to perform the iQSS restoration with CC-Link set as the target model.

Description

1. Displays the execution unit.
2. Displays the station number of the target device. It is displayed when the execution unit is "Station" or "Station sub-ID".
3. Displays the module type of the target device. It is displayed when the execution unit is "Station sub-ID".

Remarks

4.3.25 Restore Progress (Ethernet) (W-30121)

Execution unit		IP Address	1
Target device	IP Address	192 . 168 . 3 . 40	2

Outline

This screen displays the setting of the target device that was used to perform the iQSS restoration with Ethernet set as the target model.

Description

1. Displays the execution unit.
2. Displays the IP address of the target device. It is displayed when the execution unit is "IP Address".

Remarks

4.4 Device List

Some of the devices specified to the on-screen switches and lamps, etc., are also used for common settings of functions such as scripts. Using [Batch Edit] is recommended to change these devices in a batch. For more details about using [Batch Edit], please refer to the "GT Designer3 (GOT2000) Help".

4.4.1 Devices of the controller

Type	Device No.	Application
Bit	SM1435	iQ Sensor Solution Compatible Backup/Restoration Execution Permission Bit
	SM1436	iQ Sensor Solution Compatible Backup Request Bit
	SM1437	iQ Sensor Solution Compatible Backup Normal Completion Bit
	SM1438	iQ Sensor Solution Compatible Backup Abnormal Completion Bit
	SM1439	iQ Sensor Solution Compatible Restoration Request Bit
	SM1440	iQ Sensor Solution Compatible Restoration Normal Completion Bit
	SM1441	iQ Sensor Solution Compatible Restoration Abnormal Completion Bit
	SM1442	iQ Sensor Solution Compatible Backup/Restoration Cancel Request Bit
Word	SD1435	iQ Sensor Solution Compatible Backup/Restoration Use Request Device
	SD1436	iQ Sensor Solution Compatible Backup/Restoration Use Right Obtaining Status Device
	SD1437	iQ Sensor Solution Compatible Backup/Restoration Target Device /Execution Unit Setting Device
	SD1438	iQ Sensor Solution Compatible Backup/Restoration Target Folder Number Setting Device
	SD1439	iQ Sensor Solution Compatible Backup/Restoration Target Setting Device (Target Module)
	SD1440	iQ Sensor Solution Compatible Backup/Restoration Target Setting Device (Target Device 1)
	SD1441	iQ Sensor Solution Compatible Backup/Restoration Target Setting Device (Target Device 2)
	SD1444	iQ Sensor Solution Compatible Backup/Restoration Action Setting Device
	SD1446	iQ Sensor Solution Compatible Backup/Restoration Status Device
	SD1447	iQ Sensor Solution Compatible Backup/Restoration Execution Status Device (Total Number of Target Devices)
	SD1448	iQ Sensor Solution Compatible Backup/Restoration Execution Status Device (Number of Normal Completion Devices)
	SD1449	iQ Sensor Solution Compatible Backup/Restoration Execution Status Device (Number of Abnormal Completion Devices)
	SD1450	iQ Sensor Solution Compatible Backup/Restoration Execution Status Device (Progress per Device)
	SD1451	iQ Sensor Solution Compatible Backup Folder Number Device
	SD1452	iQ Sensor Solution Compatible Backup/Restoration Module Error Cause
	SD1453	iQ Sensor Solution Compatible Backup/Restoration Target Device Error Cause

4.4.2 GOT internal devices

Type	Device No.	Application
Bit	GB40	Script Trigger (Always ON)
	GB41	Bit Devices Clear (Always OFF)
	GB54000	Script No.30024 Start Trigger
	GB54001	Script No.30025 Start Trigger
	GB54002	Script No.30030 Start Trigger
	GB54004	iQSS Backup Permission Flag
	GB54005	Script No.30034 Start Trigger
	GB54006	Script No.30036 Start Trigger
	GB54008	Script No.30033 Initial Start Script Start Control Flag
	GB54009	Script No.30005, No.30008 Control Flag
	GB54010	Script No.30040 Start Trigger
	GB54011	Script No.30042 Start Trigger
	GB54012	Script No.30036 Delete Range Specification Flag
	GB54013	Script No.30028 Start Trigger
	GB54014	B-30100 Screen Switching Switch Action Conditions
	GB54016	Recipe No.30001 Write Trigger
	GB54017	Recipe No.30001 Read Trigger
	GB54018	Recipe No.30002 Write Trigger
	GB54019	Recipe No.30002 Read Trigger
Word	GD54000	B-30101 Cursor Display Device
	GD54001	B-30101 Data Display Offset Device
	GD54002	B-30104 Cursor Display Device
	GD54003	B-30104 Data Display Offset Device
	GD54004	Recipe Action Control Device
	GD54005	B-30101 No. Display Device
	GD54006	W-30004 to W-30006 Comment Display Device
	GD54007	B-30101 Data Move Offset Device
	GD54008	B-30104 Data Move Offset Device
	GD54009	Recipe External Control Device
	GD54010	Recipe No. Storage Device
	GD54011	Record No. Storage Device
	GD54012	Recipe External Notification Device
	GD54013	Recipe No. Notification Device
	GD54014	Record No. Notification Device
	GD54015 to GD54034	B-30101, B-30102 Backup Setting Work Area
	GD54040 to GD54042	B-30103, B-30106 Backup/Restore Start Time Storage Device
	GD54043 to GD54062	B-30105 Backup Data Detail Display Area
	GD54075	Script No.30001 Target Device Judgment Device
	GD54076 to GD54085	B-30101 Execution Unit Comment Display Device
	GD54086	B-30101, B-30102 Module Type Selection Switch Display Flag
	GD54087	Number of AnyWireASLINK Backup Cases
	GD54088	Number of CC-Link Backup Cases

Type	Device No.	Application
Word	GD54089	Number of Ethernet Backup Cases
	GD54090	Recipe No.30001 Record No.
	GD54091	Recipe No.30002 Record No.
	GD54092	Script No.30001 I/O No. at Device Dedicated Screen Setting
	GD54093	IP Address 3rd Octet
	GD54094	IP Address 4th Octet
	GD54095	IP Address 1st Octet
	GD54096	IP Address 2nd Octet
	GD54100 to GD56199	Backup Setting Storage Area
	GD56200 to GD64299	Backup Result Storage Area
	GD65000	Base Screen Switching Device
	GD65001	Overlap Window 1 Screen Switching Device
	GD65004	Overlap Window 2 Screen Switching Device
	GD65007	Overlap Window 3 Screen Switching Device
	GD65016	Superimpose Window 1 Screen Switching Device
	GD65021	Language Switching Device
	GD65022	System Language Switching Device
	GD65031, GD65041	System Information Device
	GD65190	Change Time Device (Year)
	GD65191	Change Time Device (Month)
	GD65192	Change Time Device (Day)
	GD65193	Change Time Device (Hour)
	GD65194	Change Time Device (Minute)
	GD65195	Change Time Device (Second)
	GS386	Project/Screen Script Initial Action Control Device
	GS513 to GSS516	Change Time Device
	GS650 to GSS652	Current Time Device
	TMP0 to TMP28, TMP100 to TMP105, TMP200 to TMP206, TMP211 to TMP213, TMP220 to TMP223, TMP1000, TMP1001, TMP1010, TMP1020	For script operation

4.5 Comment List

Comment group No.	Comment No.	Where comments are used
254	No.1	W-30005
	No.2	W-30005
	No.4	W-30005
	No.8	W-30005
	No.32	W-30005
	No.100	W-30005
	No.101	W-30005
	No.102	W-30005
	No.103	W-30005
	No.104	W-30005
	No.200	W-30005
	No.201	W-30005
	No.202	W-30005
	No.300	W-30005
	No.301	W-30005
	No.302	W-30005
	No.303	W-30005
	No.304	W-30005
	No.305	W-30005
	No.400	W-30005
	No.401	W-30005
	No.500	W-30005
	No.18433	W-30005
	No.18434	W-30005
	No.18435	W-30005
	No.18436	W-30005
	No.18437	W-30005
	No.18438	W-30005
	No.18439	W-30005
	No.18440	W-30005
	No.18441	W-30005
	No.32000	W-30005
	No.32001	W-30005
	No.32002	W-30005
	No.32003	W-30005
	No.32004	W-30005
	No.32005	W-30005
	No.32006	W-30005
	No.32007	W-30005
	No.32008	W-30005
	No.32009	W-30005
	No.32010	W-30005
	No.32011	W-30005
	No.32012	W-30005
	No.32013	W-30005
	No.32014	W-30005
	No.32015	W-30005

Comment group No.	Comment No.	Where comments are used
254	No.32016	W-30005
	No.32017	W-30005
255	No.201	B-30100
	No.202	B-30101
	No.203	B-30102
	No.204	B-30103
	No.205	B-30104
	No.206	B-30105
	No.207	B-30106
	No.208	B-30100
	No.209	B-30100
	No.210	B-30101, B-30102, B-30104, B-30105
	No.211	B-30102, B-30103, B-30105, B-30106
	No.212	B-30101 to B-30106
	No.213	W-113 to W-115, W-119 to W-121
	No.216	B-30101
	No.217	B-30101
	No.218	B-30101, B-30104
	No.219	B-30101, B-30103, B-30104, B-30106
	No.220	B-30101, B-30104
	No.221	B-30101, B-30104
	No.222	B-30101, B-30102, B-30104, B-30105
	No.223	B-30101, B-30102, B-30105
	No.224	B-30102, B-30105
	No.225	W-30111, W-30114, W-30117, W-30120
	No.226	W-30110, W-30113, W-30116, W-30119
	No.227	W-30111, W-30114, W-30117, W-30120
	No.228	B-30102, B-30105
	No.229	B-30101, B-30102, B-30105
	No.230	B-30101, B-30102, B-30105
	No.231	B-30101, B-30102
	No.232	B-30101, W-30110, W-30113 to W-30116, W-30119 to W-30121
	No.233	B-30101, W-30110, W-30113 to W-30116, W-30119 to W-30121
	No.234	B-30102, B-30105
	No.235	B-30102, B-30105
	No.236	B-30102
	No.237	B-30103
	No.238	B-30103
	No.239	B-30103, B-30106
	No.240	B-30103, B-30106
	No.241	B-30103, B-30106
	No.242	B-30101, W-30111, W-30113 to W-30115, W-30117, W-30119 to W-30121
	No.243	B-30101, W-30111, W-30113 to W-30115, W-30117, W-30119 to W-30121
	No.244	B-30101, W-30111, W-30113 to W-30115, W-30117, W-30119 to W-30121

Comment group No.	Comment No.	Where comments are used
255	No.245	B-30101, B-30102, B-30105, W-30113 to W-30115, W-30119 to W-30121
	No.246	B-30103
	No.247	B-30103
	No.248	B-30103
	No.249	B-30104
	No.250	B-30104
	No.251	B-30104
	No.252	B-30106
	No.253	B-30106
	No.254	B-30106
	No.255	B-30106
	No.256	B-30106
	No.257	W-30100 to W-30102
	No.258	W-30100, W-30102
	No.259	W-30003
	No.260	W-30003
	No.261	W-30003
	No.262	W-30003
	No.263	W-30003
	No.264	W-30003
	No.265	W-30003
	No.266	W-30001, W-30003
	No.267	W-30003
	No.268	W-30102
	No.269	W-30102
	No.270	W-30102
	No.271	W-30102
	No.272	W-30101
	No.273	B-30104
	No.274	B-30104
	No.275	B-30104
	No.276	B-30104
	No.277	B-30104
	No.278	B-30104
	No.279	B-30101, B-30104
	No.280	W-30102
	No.281	W-30102
	No.282	W-30100
	No.283	W-30110, W-30113, W-30116,
	No.284	W-30110, W-30113, W-30116, W-30119
	No.285	W-30110, W-30113, W-30116, W-30119
	No.286	B-30103, B-30106
	No.287	-
	No.288	-
	No.289	W-30100
	No.290	W-30002
	No.291	W-30001
	No.292	B-30101, B-30102, B-30105

Comment group No.	Comment No.	Where comments are used
255	No.293	W-30112, W-30115, W-30118, W-30121
	No.294	B-30101, W-30112 to W-30115, W-30118 to W-30121
	No.295	B-30101, W-30112 to W-30115, W-30118 to W-30121
	No.296	B-30104

4.6 Recipe List

4.6.1 Common Setting

External Control Information	
External Control Device	GD54009
Recipe No. Storage Device	GD54010
Record No. Storage Device	GD54011
External Notification Information	
External Notification Device	GD54012
Recipe No. Notification Device	GD54013
Record No. Notification Device	GD54014

4.6.2 Individual Setting

Recipe No.30001 Recipe 1

Item		Settings
Recipe File		Use a recipe file
	File Format	G2P (Binary)
	Drive Name	A: Standard SD Card
	Folder Name	Package1
	File Name	ARP30001.G2P
	Include device comments in conversion target	Unchecked
Trigger Device	Write Trigger 1	GB54016
	Read Trigger 1	GB54017
	Record No. Device	GD54090
Block Number		1
Record Number		1
Block 1	Device	GD54100
	Device Type	Signed BIN16
	Points	2100

Recipe No.30001 Recipe 2

Item		Settings
Recipe File		Use a recipe file
	File Format	G2P (Binary)
	Drive Name	A: Standard SD Card
	Folder Name	Package1
	File Name	ARP30002.G2P
	Include device comments in conversion target	Unchecked
Trigger Device	Write Trigger 1	GB54018
	Read Trigger 1	GB54019
	Record No. Device	GD54091
Block Number		2
Record Number		1
Block 1	Device	GD56200
	Device Type	Signed BIN16
	Points	8100
Block 2	Device	GD54087
	Device Type	Signed BIN16
	Points	3

4.7 Script List

Item	Settings
Project script	Specified
Screen script	Specified: B-30100 to B-30104, B-30106
Object script	Specified: B-30101, W-30003

4.7.1 Project script

Script No.	30001	Script name	Script30001
Comment	Process at Screen Start		
Data type	Signed BIN16	Trigger type	Rise, GB40
<pre>//Initialize iQSS Backup/Restore Sample Screen [w:GS386] = 1; //Inhibit Initial Start of Scripts [w:GD54005] = 1; //Set 1 to the first number of iQSS backup //Determine Target Device [w:GD54075] = 0; //0: Not Specified, 1: ASLINK, 2: CC-Link, 3: Ethernet [w:GD54092] = 0; //To use as a dedicated screen, enter I/O No. here //When initially displaying iQSS Backup Screen or iQSS Restoration Screen, //Display Cursor in No.1 set([b:GD54000.b0]); set([b:GD54002.b0]); //When starting screen, to read iQSS backup setting and iQSS backup history, //start script. set([b:GB54010]); //Specify action conditions of screen switching switch on the menu screen. set([b:GB54014]);</pre>			

4.7.2 Screen script

Base screen 30100

Script No.	30020	Script name	Script30020
Comment	B-30100 iQSS BK Set List Read		
Data type	Signed BIN16	Trigger type	ON, GB54010
<pre>//Start from Project Script //Read the iQSS Backup Setting list and the iQSS Backup History list from Recipe. //Check if the A drive is accessible. if([b:GS251.b0] == ON) { set([b:GB54016]); //Recipe No.30001 Write Trigger [w:GD54090] = 1; //Recipe No.30001 Record No. [w:GD54004] = 1; //Next Data Acquisition Flag }else{ rst([b:GB54014]); //Screen Switching Switch Action Conditions OFF [w:GD54006] = 32015; [w:GD65007] = 30101; } rst([b:GB54010]);</pre>			
Script No.	30021	Script name	Script30021
Comment	B-30100 Recipe W Trigger OFF		
Data type	Signed BIN16	Trigger type	ON, GD54012.b4

```
//Turn OFF Write Trigger of Recipe
```

```
//If the flag was on, read the next data.
```

```
if([w:GD54004] == 1)
```

```
{
```

```
    set([b:GB54011]);
```

```
}else{
```

```
    rst([b:GB54014]); //Screen Switching Switch Action Conditions OFF
```

```
}
```

```
if([w:GD54013] == 30001)
```

```
{
```

```
    rst([b:GB54016]); //Recipe No.30001 Write Trigger
```

```
}else{
```

```
    rst([b:GB54018]); //Recipe No.30002 Write Trigger
```

```
}
```

```
rst([b:GD54012.b4]);
```

Script No.	30022	Script name	Script30022
------------	-------	-------------	-------------

Comment	B-30100 iQSS BK Hist.List Read
---------	--------------------------------

Data type	Signed BIN16	Trigger type	Rise, GB54011
-----------	--------------	--------------	---------------

```
//Read iQSS Backup History
```

```
[w:GD54091] = 1; //Recipe No.30002 Record No.
```

```
set([b:GB54018]); //Recipe No.30002 Write Trigger
```

```
[w:GD54004] = 0; //Flag Clear
```

```
rst([b:GB54011]);
```

Base screen 30101

Script No.	30005	Script name	Script30005
------------	-------	-------------	-------------

Comment	B-30101 iQSS BK Setting Transfer
---------	----------------------------------

Data type	Unsigned BIN16	Trigger type	Rise, GB54000
-----------	----------------	--------------	---------------

```
//Transfer iQSS parameters from the iQSS Backup Setting list to the editor area.
```

```
[w:TMP0000] = [w:GD54007] * 21;
```

```
[w:GD54100[w:TMP0000]] = [w:GD54007] + 1;
```

```
bmov([w:GD54100[w:TMP0000]], [w:GD54015], 20);
```

```
[w:GD54086] = [w:GD54120[w:TMP0000]];
```

```
//If target model is specified,
```

```
//assign target model and I/O No.
```

```
if([w:GD54075] != 0)
```

```
{
```

```
    [w:GD54016] = [w:GD54075];    //Target Model
```

```
    [w:GD54030] = [w:GD54092];    //I/O No.
```

```
    //Execute only when target model is AnyWireASLINK.
```

```
    if([w:GD54075] == 1)
```

```
    {
```

```
        set([b:GD54086.b0]);    //Flag to Select Output, Input/Combined
```

```
    }
```

```
}
```

```
//Folder Numbers Fixed
```

```
[w:GD54029] = -2;    //Folder Numbers Automatic Acquisition
```

```
[w:GD65000] = 30102;    //Base Screen Switching
```



```

//Select superimpose window to display depending on the target model.
switch([w:GD54101[w:TMP0000]])
{
    case 1:          [w:GD65016] = 30110;    //AnyWireASLINK
                    break;

    case 2:          [w:GD65016] = 30111;    //CC-LINK
                    break;

    case 3:          [w:GD65016] = 30112;    //Ethernet
                    [w:GD54093] = ([w:GD54032] & 0xFF00) >> 8;    //IP Address
3rd Octet
                    [w:GD54094] = [w:GD54032] & 0x00FF;
                    //IP Address 4th Octet
                    [w:GD54095] = ([w:GD54033] & 0xFF00) >> 8;    //IP Address
1st Octet
                    [w:GD54096] = [w:GD54033] & 0x00FF;
                    //IP Address 2nd Octet
                    break;

    default:         if([w:GD54075] != 0)
                    {
                        switch([w:GD54075])
                        {
                            case 1:          [w:GD65016] = 30110;
                            //AnyWireASLINK
                                                break;

                            case 2:          [w:GD65016] = 30111;
                            //CC-LINK
                                                break;

                            case 3:          [w:GD65016] = 30112;
                            //Ethernet
                                                [w:GD54093] =
([w:GD54032] & 0xFF00) >> 8;    //IP Address 3rd Octet
                                                [w:GD54094] =
[w:GD54032] & 0x00FF;    //IP Address 4th Octet
                                                [w:GD54095] =
([w:GD54033] & 0xFF00) >> 8;    //IP Address 1st Octet
                                                [w:GD54096] =
[w:GD54033] & 0x00FF;    //IP Address 2nd Octet
                                                break;
                        }
                    }
                    break;
}

```

rst([b:GB54000]);

Script No.	30015	Script name	Script30015
Comment	B-30101 Data Delete		
Data type	Signed BIN16	Trigger type	Rise, GB54006

//Delete the specified data from the iQSS Backup Setting list.

```

//Check if the data is selected
if([w:GD54000] != 0)
{
    //Offset
    [w:TMP0000] = [w:GD54007] * 21;
}

```

<pre>//If no data exists in the selected place, do not delete if([w:GD54101[w:TMP0000]] != 0) { //Clear Data [w:TMP0002] = 0; fmov([w:TMP0002],[w:GD54100[w:TMP0000]],21); [w:GD54090] = 1; //Recipe No.30001 Record No. set([b:GB54017]); //Recipe No.30001 Read Trigger } else{ [w:GD54006] = 32012; [w:GD65007] = 30101; } } else{ [w:GD54006] = 32012; [w:GD65007] = 30101; } }</pre>			
rst([b:GB54006]);			
Script No.	30009	Script name	Script30009
Comment	iQSS BK/RS Use Right Info Check		
Data type	Signed BIN16	Trigger type	Sampling, 1 Sec
<pre>//Periodically check the status of obtaining the right to use. if([w:SD1435] == [w:SD1436]) { set([b:GB54004]); //iQSS Backup Permission Bit ON } else{ rst([b:GB54004]); //iQSS Backup Permission Bit OFF } }</pre>			
Script No.	30007	Script name	Script30007
Comment	Recipe Trigger OFF		
Data type	Signed BIN16	Trigger type	ON, GD54012.b5
<pre>//Turn OFF Read Trigger of Recipe if([w:GD54013] == 30001) { rst([b:GB54017]); //Recipe No.30001 Read Trigger } else{ rst([b:GB54019]); //Recipe No.30002 Read Trigger } }</pre>			
rst([b:GD54012.b5]);			
Script No.	30008	Script name	Script30008
Comment	B-30101 iQSS BK Preprocessing 1		
Data type	Signed BIN16	Trigger type	Rise, GB54013
<pre>//iQSS Backup Preprocessing //Offset [w:TMP0000] = [w:GD54007] * 21; //Check if the A drive is accessible. if([b:GS251.b0] == ON) { //If module type is 0, no settings are entered and backup will not be executed. if([w:GD54101[w:TMP0000]] != 0) { //Check the number of backed up cases. //When exceeding 100 cases, display a message before making backup.</pre>			

```

switch([w:GD54101[w:TMP0000]])
{
    case 1:          //AnyWireASLINK
                    if([w:GD54087] == 100)
                    {
                        [w:GD54006] = 280;
                    }else{
                        [w:GD54006] = 268;
                    }
                    break;
    case 2:          //CC-LINK
                    if([w:GD54088] == 100)
                    {
                        [w:GD54006] = 281;
                    }else{
                        [w:GD54006] = 268;
                    }
                    break;
    case 3:          //Ethernet
                    if([w:GD54089] == 100)
                    {
                        [w:GD54006] = 297;
                    }else{
                        [w:GD54006] = 268;
                    }
                    break;
    default:         break;
}

[w:GD65007] = 30102;

}else{
    [w:GD54006] = 32007;
    [w:GD65007] = 30101;
}

}else{
    [w:GD54006] = 32017;
    [w:GD65007] = 30101;
}
}

```

rst([b:GB54013]);

Script No.	30010	Script name	Script30010
Comment	B-30101 iQSS BK Preprocessing 2		
Data type	Signed BIN16	Trigger type	Rise, GB54002

//Transfer Specified Contents to PLC Devices

//Setting Name

bmov([w:GD54102[w:TMP0000]], [w:GD54017], 12);

//SD1437: iQSS Backup/Restoration Target Model/Execution Unit Setting

[w:SD1437] = (([w:GD54116[w:TMP0000]] & 0x00FF) << 8) + ([w:GD54101[w:TMP0000]] & 0x00FF);

//Execution Unit Display

[w:GD54016] = [w:GD54101[w:TMP0000]];

//SD1438: iQSS Backup/Restoration Target Folder No.

[w:SD1438] = [w:GD54114[w:TMP0000]];

//SD1439: iQSS Backup/Restoration Target Setting (Target Module I/O No.)

```

[w:SD1439] = [w:GD54115[w:TMP0000]];

//SD1440: iQSS Backup/Restoration Target Setting (Target Device 1 ASLINK: ID No., CC-Link: Station No., Ethernet: IP Address [lower 16 bits])
[w:SD1440] = [w:GD54117[w:TMP0000]];

//SD1441: iQSS Backup/Restoration Target Setting (Target Device 2 ASLINK: Not Used, CC-Link: Sub Station No., Ethernet: IP Address [upper 16 bits])
[w:SD1441] = [w:GD54118[w:TMP0000]];

//SD1444: iQSS Backup/Restoration Action Setting
[w:SD1444] = [w:GD54119[w:TMP0000]];

//If the right to use the iQSS backup is obtained, start backup.
if(([b:GB54004] == ON) && ([w:SD1446] == 0x0001))
{
    set([b:SM1436]);
    [w:GD65000] = 30103;

    //Select superimpose window to display depending on the target model.
    switch([w:GD54101[w:TMP0000]])
    {
        case 1:          [w:GD65016] = 30113;
                        break;

        case 2:          [w:GD65016] = 30114;
                        break;

        case 3:          [w:GD65016] = 30115;
                        break;

        default:         break;
    }
}
else{
    [w:GD54006] = 32006;
    [w:GD65007] = 30101;
}

```

```
rst([b:GB54002]);
```

Script No.	30017	Script name	Script30017
Comment	Process at Screen Switching		
Data type	Signed BIN16	Trigger type	When closing a screen

```
//Clear Flags
```

```
rst([b:GB54008]);
rst([b:GB54009]);
```

```
//Close Overlap Window
```

```
[w:GD65001] = 0;
[w:GD65004] = 0;
[w:GD65007] = 0;
```

Base screen 30102

Script No.	30006	Script name	Script30006
Comment	B-30102 iQSS Backup Setting Save		
Data type	Signed BIN16	Trigger type	Rise, GB54001

```
//Save iQSS Backup Setting of Device to Recipe
```

```
//Check if the A drive is accessible.
```

```

if([b:GS251.b0] == ON)
{
    //Check if target model is specified.
    if([w:GD54016] != 0)
    {
        //Check whether the execution unit is specified.
        if([w:GD54031] != 0)
        {
            //Check whether the correct value is in Station No. and Station Sub.
            if(([w:GD54031] == 1) || (([w:GD54031] == 2) && ([w:GD54032] >= 0)) ||
            ([w:GD54031] >= 3) && ([w:GD54032] >= 0) && ([w:GD54033] >= 0)))
            {
                //If all checks are OK, save to recipe.

                //If target model is Ethernet and IP address is specified, merge IP
addresses.
                if(([w:GD54016] == 3) && ([w:GD54031] == 2))
                {
                    [w:GD54033] = (([w:GD54095] & 0x00FF) << 8) |
([w:GD54096] & 0x00FF);
                    [w:GD54032] = (([w:GD54093] & 0x00FF) << 8) |
([w:GD54094] & 0x00FF);
                }

                [w:TMP0000] = ([w:GD54015] - 1) * 21;
                bmov([w:GD54015],[w:GD54100[w:TMP0000]],20);
                [w:GD54120[w:TMP0000]] = [w:GD54086];
                [w:GD54090] = 1; //Recipe No.30001 Record No.
                set([b:GB54017]); //Recipe No.30001 Read Trigger

            }else{
                [w:GD54006] = 32011;
                [w:GD65007] = 30101;
            }
        }else{
            [w:GD54006] = 32011;
            [w:GD65007] = 30101;
        }
    }else{
        [w:GD54006] = 32009;
        [w:GD65007] = 30101;
    }
}
}
}
rst([b:GB54001]);

```

Script No.	30025	Script name	Script30025
Comment	B-30102 Recipe Trigger OFF		
Data type	Signed BIN16	Trigger type	ON, GD54012.b5

//Turn OFF Read Trigger of Recipe

rst([b:GB54017]); //Recipe No.30001 Read Trigger

[w:GD54006] = 32016;
[w:GD65007] = 30101;

rst([b:GD54012.b5]);


```

100)                                     if([w:TMP0003] ==
{
//If history
break;
}
[w:TMP0001] = [w:TMP0001]
+ 1;
}
[w:TMP0004] = 0;

fmov([w:TMP0004],[w:GD56200[w:TMP0002]],27);

up.                                     //Move the data after deleted portion
while([w:TMP0001] < 299)
{
[w:TMP0002] = [w:TMP0001]
[w:TMP0005] = ([w:TMP0001]
* 27; //Offset
+ 1) * 27; //Copy Destination Offset

bmov([w:GD56200[w:TMP0005]], [w:GD56200[w:TMP0002]], 27);

[w:TMP0001] = [w:TMP0001]
+ 1;
}
}
break;

case 2: //CC-LINK
if([w:GD54088] == 100)
{
[w:TMP0001] = 0;
[w:TMP0003] = 0;
//Search for CC-Link history from all
history.
while([w:TMP0001] <= 299)
{
[w:TMP0002] = [w:TMP0001]
if([w:GD56201[w:TMP0002]]
{
[w:TMP0003] =
if([w:TMP0003] ==
{
//If history
break;
}
}
[w:TMP0001] = [w:TMP0001]
+ 1;
}
}

```

```

[w:TMP0004] = 0;

fmov([w:TMP0004],[w:GD56200[w:TMP0002]],27);

up.
//Move the data after deleted portion
while([w:TMP0001] < 299)
{
    [w:TMP0002] = [w:TMP0001]
    [w:TMP0005] = ([w:TMP0001]
* 27;    //Offset
+ 1) * 27;//Copy Destination Offset

    bmov([w:GD56200[w:TMP0005]], [w:GD56200[w:TMP0002]], 27);

    [w:TMP0001] = [w:TMP0001]
+ 1;
}
}
break;

case 3:    //Ethernet
    if([w:GD54089] == 100)
    {
        [w:TMP0001] = 0;
        [w:TMP0003] = 0;
        //Search for Ethernet history from all
        while([w:TMP0001] <= 299)
        {
            [w:TMP0002] = [w:TMP0001]
            if([w:GD56201[w:TMP0002]]
            {
                [w:TMP0003] =
                if([w:TMP0003] ==
                {
                    //If history
                    break;
                }
            }
            [w:TMP0001] = [w:TMP0001]
+ 1;
        }
        [w:TMP0004] = 0;

        fmov([w:TMP0004],[w:GD56200[w:TMP0002]],27);

        //Move the data after deleted portion
        while([w:TMP0001] < 299)
        {
            [w:TMP0002] = [w:TMP0001]

```



```

* 27; //Offset
[w:TMP0005] = ([w:TMP0001]
+ 1) * 27; //Copy Destination Offset

bmov([w:GD56200[w:TMP0005]], [w:GD56200[w:TMP0002]], 27);
[w:TMP0001] = [w:TMP0001]
+ 1;
}
}
break;
default: break;
}
}

//Offset Calculation
if(([w:GD54075] == 1) || ([w:GD54075] == 2) || ([w:GD54075] == 3))
{
    //ASLINK or CC-Link or Ethernet Dedicated Screen
    [w:TMP0001] = 99;
}else{
    //General Screen
    [w:TMP0001] = 299;
}

//Store the iQSS backup result in descending order.
while([w:TMP0001] > 0)
{
    [w:TMP0000] = [w:TMP0001] * 27;
    [w:TMP0002] = ([w:TMP0001] - 1) * 27;

    bmov([w:GD56200[w:TMP0002]], [w:GD56200[w:TMP0000]], 27);
    [w:GD56200[w:TMP0000]] = [w:TMP0001] + 1;

    [w:TMP0001] = [w:TMP0001] - 1;
}

//No.
[w:GD56200] = 1;

//SD1437: iQSS Backup/Restoration Target Model/Execution Unit Setting
[w:GD56201] = [w:SD1437] & 0x00FF;
[w:GD56216] = ([w:SD1437] & 0xFF00) >> 8;

//Setting Name
bmov([w:GD54017], [w:GD56202], 12);

//SD1451: iQSS Backup Folder No.
[w:GD56214] = [w:SD1451];

//SD1439: iQSS Backup/Restoration Target Setting (Target Module I/O No.)
[w:GD56215] = [w:SD1439];

//SD1440: iQSS Backup/Restoration Target Setting (Target Device 1 ASLINK: ID No.,
CC-Link: Station No., Ethernet: IP Address [lower 16 bits])
[w:GD56217] = [w:SD1440];

//SD1441: iQSS Backup/Restoration Target Setting (Target Device 2 ASLINK: Not Used,
CC-Link: Sub Station No., Ethernet: IP Address [upper 16 bits])

```

```

[w:GD56218] = [w:SD1441];

//SD1444: iQSS Backup/Restoration Action Setting
[w:GD56219] = [w:SD1444];

//iQSS Backup Execution Date/Time
[w:GD56220] = [w:GD54040];
[w:GD56221] = [w:GD54041];
[w:GD56222] = [w:GD54042];

//SD1447: iQSS Backup/Restoration Number of Target Devices
[w:GD56223] = [w:SD1447];

//SD1448: iQSS Backup/Restoration Number of Normal Completion Devices
[w:GD56224] = [w:SD1448];

//SD1449: iQSS Backup/Restoration Number of Abnormal Completion Devices
[w:GD56225] = [w:SD1449];

//iQSS Backup Cases
switch([w:GD56201])
{
    case 1:          //AnyWireASLINK
                    if([w:GD54087] >= 100)
                    {
                        [w:GD54087] = 100;
                    }else{
                        [w:GD54087] = [w:GD54087] + 1;
                    }
                    break;

    case 2:          //CC-LINK
                    if([w:GD54088] >= 100)
                    {
                        [w:GD54088] = 100;
                    }else{
                        [w:GD54088] = [w:GD54088] + 1;
                    }
                    break;

    case 3:          //Ethernet
                    if([w:GD54089] >= 100)
                    {
                        [w:GD54089] = 100;
                    }else{
                        [w:GD54089] = [w:GD54089] + 1;
                    }
                    break;

    default:         break;
}

//Save to Recipe
[w:GD54091] = 1; //Recipe No.30002 Record No.
set([b:GB54019]); //Recipe No.30002 Read Trigger

//Change messages depending on whether canceled or not.
if([b:SM1442] == ON)
{
    [w:GD54006] = 32002; //Backup Cancel Message
}else{

```

[w:GD54006] = 32000; //Backup Successful Message } [w:GD65007] = 30101; //Notification Dialog set([b:GB54009]); }			
Script No.	30002	Script name	Script30002
Comment	B-30103 Abnormal End		
Data type	Signed BIN16	Trigger type	ON, SM1438
//After iQSS backup is completed, save results to Recipe. if([b:GB54009] == OFF) { //If no folders were created, do not save history. if(([w:SD1447] != 0) && ([w:SD1448] != 0)) { //When ASLINK, CC-Link, or Ethernet exceeding 100 cases, //delete the oldest backup history. //If the screen was created as a dedicated screen, it does not work. if([w:GD54075] == 0) { switch([w:SD1437] & 0x00FF) { case 1: //AnyWireASLINK if([w:GD54087] == 100) { [w:TMP0001] = 0; [w:TMP0003] = 0; //Search for ASLINK history while([w:TMP0001] <= 299) { [w:TMP0002] = [w:GD56201[w:TMP0002]] * 27; //Offset if([w:GD56201[w:TMP0002]] == 1) { [w:TMP0003] = [w:TMP0003] + 1; if([w:TMP0003] == 100) { //If history reached 100th case, exit loop. break; } } [w:TMP0001] = [w:TMP0001] + 1; } [w:TMP0004] = 0; fmov([w:TMP0004],[w:GD56200[w:TMP0002]],27); //Move the data after deleted portion up. while([w:TMP0001] < 299) { [w:TMP0002] =			

```

[w:TMP0001] * 27;          //Offset
                                                                    [w:TMP0005]      =
([w:TMP0001] + 1) * 27; //Copy Destination Offset

    bmov([w:GD56200[w:TMP0005]], [w:GD56200[w:TMP0002]], 27);

                                                                    [w:TMP0001]      =
[w:TMP0001] + 1;
                                                                    }
                                                                    }
                                                                    break;

    case 2:          //CC-LINK
        if([w:GD54088] == 100)
        {
            [w:TMP0001] = 0;
            [w:TMP0003] = 0;
            //Search for CC-Link history
            while([w:TMP0001] <= 299)
            {
                [w:TMP0002]      =
[w:TMP0001] * 27;          //Offset
                if([w:GD56201[w:TMP0002]] == 2)
                                                                    {
                    [w:TMP0003] = [w:TMP0003] + 1;
                    if([w:TMP0003] == 100)
                                                                    {
                                                                    //If
                                                                    history reached 100th case, exit loop.
                                                                    break;
                                                                    }
                                                                    }
                                                                    [w:TMP0001]      =
[w:TMP0001] + 1;
                                                                    }
                                                                    [w:TMP0004] = 0;

                fmov([w:TMP0004], [w:GD56200[w:TMP0002]], 27);

                                                                    //Move the data after deleted
                                                                    portion up.
                                                                    while([w:TMP0001] < 299)
                                                                    {
                                                                    [w:TMP0002]      =
                                                                    [w:TMP0005]      =
[w:TMP0001] * 27;          //Offset
                                                                    [w:TMP0005]      =
([w:TMP0001] + 1) * 27; //Copy Destination Offset

                bmov([w:GD56200[w:TMP0005]], [w:GD56200[w:TMP0002]], 27);

                                                                    [w:TMP0001]      =
[w:TMP0001] + 1;

```

```

    }
    break;

case 3: //Ethernet
    if([w:GD54089] == 100)
    {
        [w:TMP0001] = 0;
        [w:TMP0003] = 0;
        //Search for Ethernet history
        while([w:TMP0001] <= 299)
        {
            [w:TMP0002] =
[w:TMP0001] * 27; //Offset
            if([w:GD56201[w:TMP0002]] == 3)
            {
                [w:TMP0003] = [w:TMP0003] + 1;
                if([w:TMP0003] == 100)
                {
                    //If
                    history reached 100th case, exit loop.
                    break;
                }
            }
            [w:TMP0001] + 1;
        }
        [w:TMP0004] = 0;

        fmov([w:TMP0004],[w:GD56200[w:TMP0002]],27);

        //Move the data after deleted
        portion up.
        while([w:TMP0001] < 299)
        {
            [w:TMP0002] =
[w:TMP0001] * 27; //Offset
            [w:TMP0005] =
([w:TMP0001] + 1) * 27; //Copy Destination Offset

            bmov([w:GD56200[w:TMP0005]], [w:GD56200[w:TMP0002]], 27);

            [w:TMP0001] =
[w:TMP0001] + 1;
        }
    }
    break;

default: break;
}

//Offset Calculation
if(([w:GD54075] == 1) || ([w:GD54075] == 2) || ([w:GD54075] == 3))

```

```

{
    //ASLINK or CC-Link or Ethernet Dedicated Screen
    [w:TMP0001] = 99;
}else{
    //General Screen
    [w:TMP0001] = 299;
}

//Store the iQSS backup result in descending order.
while([w:TMP0001] > 0)
{
    [w:TMP0000] = [w:TMP0001] * 27;
    [w:TMP0002] = ([w:TMP0001] - 1) * 27;

    bmov([w:GD56200[w:TMP0002]], [w:GD56200[w:TMP0000]], 27);
    [w:GD56200[w:TMP0000]] = [w:TMP0001] + 1;

    [w:TMP0001] = [w:TMP0001] - 1;
}

//No.
[w:GD56200] = 1;

//SD1437: iQSS Backup/Restoration Target Model/Execution Unit Setting
[w:GD56201] = [w:SD1437] & 0x00FF;
[w:GD56216] = ([w:SD1437] & 0xFF00) >> 8;

//Setting Name
bmov([w:GD54017], [w:GD56202], 12);

//SD1451: iQSS Backup Folder No.
[w:GD56214] = [w:SD1451];

//SD1439: iQSS Backup/Restoration Target Setting (Target Module I/O No.)
[w:GD56215] = [w:SD1439];

//SD1440: iQSS Backup/Restoration Target Setting (Target Device 1 ASLINK: ID No.,
CC-Link: Station No., Ethernet: IP Address [lower 16 bits])
[w:GD56217] = [w:SD1440];

//SD1441: iQSS Backup/Restoration Target Setting (Target Device 2 ASLINK: Not
Used, CC-Link: Sub Station No., Ethernet: IP Address [upper 16 bits])
[w:GD56218] = [w:SD1441];

//SD1444: iQSS Backup/Restoration Action Setting
[w:GD56219] = [w:SD1444];

//iQSS Backup Execution Date/Time
[w:GD56220] = [w:GD54040];
[w:GD56221] = [w:GD54041];
[w:GD56222] = [w:GD54042];

//SD1447: iQSS Backup/Restoration Number of Target Devices
[w:GD56223] = [w:SD1447];

//SD1448: iQSS Backup/Restoration Number of Normal Completion Devices
[w:GD56224] = [w:SD1448];

//SD1449: iQSS Backup/Restoration Number of Abnormal Completion Devices
[w:GD56225] = [w:SD1449];

```

```

//iQSS Backup Cases
switch([w:GD56201])
{
    case 1:          //AnyWireASLINK
                    if([w:GD54087] >= 100)
                    {
                        [w:GD54087] = 100;
                    }else{
                        [w:GD54087] = [w:GD54087] + 1;
                    }
                    break;

    case 2:          //CC-LINK
                    if([w:GD54088] >= 100)
                    {
                        [w:GD54088] = 100;
                    }else{
                        [w:GD54088] = [w:GD54088] + 1;
                    }
                    break;

    case 3:          //Ethernet
                    if([w:GD54089] >= 100)
                    {
                        [w:GD54089] = 100;
                    }else{
                        [w:GD54089] = [w:GD54089] + 1;
                    }
                    break;
}

//Save to Recipe
[w:GD54091] = 1; //Recipe No.30002 Record No.
set([b:GB54019]); //Recipe No.30002 Read Trigger
}

if([w:SD1452] != 0)
{
    if([w:SD1452] == 16894)
    {
        [w:GD54006] = 32001; //Backup Failure Message
        [w:GD65007] = 30101; //Notification Dialog
    }else{
        [w:GD54006] = [w:SD1452]; //Backup Failure Message
        [w:GD65007] = 30101; //Notification Dialog
    }
}
}

if([w:SD1453] != 0)
{
    [w:GD54006] = [w:SD1453]; //Backup Failure Message
    [w:GD65007] = 30101; //Notification Dialog
}
}

}

set([b:GB54009]);
}

```

Script No.	30007	Script name	Script30007
Comment	Recipe Trigger OFF		
Data type	Signed BIN16	Trigger type	ON, GD54012.b5
//Turn OFF Read Trigger of Recipe if([w:GD54013] == 30001) { rst([b:GB54017]); //Recipe No.30001 Read Trigger }else{ rst([b:GB54019]); //Recipe No.30002 Read Trigger } rst([b:GD54012.b5]);			
Script No.	30017	Script name	Script30017
Comment	Process at Screen Switching		
Data type	Signed BIN16	Trigger type	When closing a screen
//Clear Flags rst([b:GB54008]); rst([b:GB54009]); //Close Overlap Window [w:GD65001] = 0; [w:GD65004] = 0; [w:GD65007] = 0;			
Script No.	30023	Script name	Script30023
Comment	B-30103,30106 iQSS BK/RS Cancel		
Data type	Signed BIN16	Trigger type	Rise, GB54002
//Abort iQSS Backup or iQSS Restoration set([b:SM1442]); //iQSS Backup/Restoration Cancel Request rst([b:GB54002]);			

Base screen 30104

Script No.	30014	Script name	Script30014
Comment	B-30104 iQSS Restore Set Check		
Data type	Signed BIN16	Trigger type	Rise, GB54005
//Check iQSS backup contents. [w:TMP0000] = ([w:GD54008] * 27) + [w:GD54003]; bmov([w:GD56200[w:TMP0000]], [w:GD54043], 20); //Select superimpose window to display depending on the target model. switch([w:GD56201[w:TMP0000]]) { case 1: [w:GD65016] = 30116; //AnyWireASLINK break; case 2: [w:GD65016] = 30117; //CC-LINK break; case 3: [w:GD65016] = 30118; //Ethernet break; default: break; } [w:GD65000] = 30105; rst([b:GB54005]);			

Script No.	30016	Script name	Script30016
Comment	B-30104 Data Delete		
Data type	Signed BIN16	Trigger type	Rise, GB54006
<p>//After deleting the specified data from the iQSS Backup History list, move the rest of the list up.</p> <p>//Check whether to delete all or delete specified range cases.</p> <pre> if([b:GB54012] == OFF) { //Check if the data is selected if([w:GD54002] != 0) { //Offset [w:TMP0000] = ([w:GD54008] * 27) + [w:GD54003]; //Copy Source Offset [w:TMP0001] = (([w:GD54008] + 1) * 27) + [w:GD54003]; //If no backup data exists in the selected place, do not process if([w:GD56201[w:TMP0000]] != 0) { //Reduce Number of Backup Cases if(([w:GD56223[w:TMP0000]] != 0) && ([w:GD56223[w:TMP0000]] == [w:GD56224[w:TMP0000]])) { switch([w:GD56201[w:TMP0000]]) { case 1: //AnyWireASLINK if([w:GD54087] > 0) { [w:GD54087] = [w:GD54087] - 1; }else{ [w:GD54087] = 0; } break; case 2: //CC-LINK if([w:GD54088] > 0) { [w:GD54088] = [w:GD54088] - 1; }else{ [w:GD54088] = 0; } break; case 3: //Ethernet if([w:GD54089] > 0) { [w:GD54089] = [w:GD54089] - 1; }else{ [w:GD54089] = 0; } break; default: break; } } //Calculate the Number of Processing Counts to Repeat [w:TMP0003] = [w:TMP0000] / 27; </pre>			

```

        if([w:GD54075] == 1) || ([w:GD54075] == 2) || ([w:GD54075] == 3))
        {
            //ASLINK or CC-Link or Ethernet Dedicated Screen
            [w:TMP0002] = 99;
        }else{
            //General Screen
            [w:TMP0002] = 299;
        }

        while([w:TMP0003] <= [w:TMP0002])
        {
            if([w:TMP0003] != [w:TMP0002])
            {
                //Overwrite Data

                bmov([w:GD56200[w:TMP0001]], [w:GD56200[w:TMP0000]], 27);
                //Adjust the No. to the current No. If No. is 0 or less, fix it
                if([w:GD56200[w:TMP0000]] > 0)
                {
                    [w:GD56200[w:TMP0000]] =
                    [w:GD56200[w:TMP0000]] - 1;
                }else{
                    [w:GD56200[w:TMP0000]] = 0;
                }

                //Add Offset
                [w:TMP0000] = [w:TMP0000] + 27;
                [w:TMP0001] = [w:TMP0001] + 27;

                //Add Count
                [w:TMP0003] = [w:TMP0003] + 1;
            }else{
                //Set the last data to 0
                [w:TMP0004] = 0;

                if([w:GD54075] == 1) || ([w:GD54075] == 2) ||
                ([w:GD54075] == 3))
                {
                    //ASLINK or CC-Link or Ethernet Dedicated
                    Screen
                    fmov([w:TMP0004], [w:GD58873], 27);
                }else{
                    //General Screen
                    fmov([w:TMP0004], [w:GD64273], 27);
                }
                [w:TMP0000] = [w:TMP0000] + 27;

                //Add Count
                [w:TMP0003] = [w:TMP0003] + 1;
            }
        }

        //Save to Recipe
        [w:GD54091] = 1; //Recipe No.30002 Record No.
        set([b:GB54019]); //Recipe No.30002 Read Trigger
    }else{
        [w:GD54006] = 32012;
        [w:GD65007] = 30101;
    }
}

```

```

    }else{
        [w:GD54006] = 32012;
        [w:GD65007] = 30101;
    }
}
}

//All Delete
[w:TMP0000] = 0;
fmov([w:TMP0000],[w:GD56200],8100);

//Clear Backup Cases
//AnyWireASLINK
[w:GD54087] = 0;
//CC-Link
[w:GD54088] = 0;
//Ethernet
[w:GD54089] = 0;

//Save to Recipe
[w:GD54091] = 1; //Recipe No.30002 Record No.
set([b:GB54019]); //Recipe No.30002 Read Trigger
}
rst([b:GB54006]);

```

Script No.	30007	Script name	Script30007
Comment	Recipe Trigger OFF		
Data type	Signed BIN16	Trigger type	ON, GD54012.b5

//Turn OFF Read Trigger of Recipe

```

if([w:GD54013] == 30001)
{
    rst([b:GB54017]); //Recipe No.30001 Read Trigger
}
else{
    rst([b:GB54019]); //Recipe No.30002 Read Trigger
}

```

rst([b:GD54012.b5]);

Script No.	30019	Script name	Script30019
Comment	B-30104 Restore Preprocessing		
Data type	Signed BIN16	Trigger type	Rise, GB54002

//Transfer Specified Contents to PLC Devices

//Offset Calculation

[w:TMP0000] = ([w:GD54008] * 27) + [w:GD54003];

//If target model is 0, no settings are entered and restoration will not be executed.

if([w:GD56201[w:TMP0000]] != 0)

```

{
    //Do no restore data from the backup that was not ended normally.
    if((([w:GD56223[w:TMP0000]] != 0) && ([w:GD56223[w:TMP0000]] ==
[w:GD56224[w:TMP0000]]))
    {

```

//Setting Name

bmov([w:GD56202[w:TMP0000]], [w:GD54045], 24);

//Target Device Comment Display

[w:GD54016] = [w:GD56201[w:TMP0000]];

//SD1437: iQSS Backup/Restoration Target Model/Execution Unit Setting

```

        [w:SD1437] = (([w:GD56216[w:TMP0000]] & 0x00FF) << 8) +
([w:GD56201[w:TMP0000]] & 0x00FF);

```

```
//SD1438: iQSS Backup/Restoration Target Folder No.
[w:SD1438] = [w:GD56214[w:TMP0000]];

//SD1439: iQSS Backup/Restoration Target Setting (Target Module I/O No.)
[w:SD1439] = [w:GD56215[w:TMP0000]];

//SD1440: iQSS Backup/Restoration Target Setting (Target Device 1 ASLINK: ID No.,
CC-Link: Station No., Ethernet: IP Address [lower 16 bits])
[w:SD1440] = [w:GD56217[w:TMP0000]];

//SD1441: iQSS Backup/Restoration Target Setting (Target Device 2 ASLINK: Not
Used, CC-Link: Sub Station No., Ethernet: IP Address [upper 16 bits])
[w:SD1441] = [w:GD56218[w:TMP0000]];

//SD1444: iQSS Backup/Restoration Action Setting
[w:SD1444] = [w:GD56219[w:TMP0000]];

//If the right to use the iQSS backup is obtained, start backup.
if(([b:GB54004] == ON) && ([w:SD1446] == 0x0001))
{
    set([b:SM1439]);
    [w:GD65000] = 30106;

    //Select superimpose window to display depending on the target model.
    switch([w:GD56201[w:TMP0000]])
    {
        case 1:          [w:GD65016] = 30119;
                        break;

        case 2:          [w:GD65016] = 30120;
                        break;

        case 3:          [w:GD65016] = 30121;
                        break;

        default:         break;
    }

}
else{
    [w:GD54006] = 32006;
    [w:GD65007] = 30101;
}
else{
    [w:GD54006] = 32013;
    [w:GD65007] = 30101;
}
else{
    [w:GD54006] = 32008;
    [w:GD65007] = 30101;
}
}
```

```
rst([b:GB54002]):
```

Script No.	30009	Script name	Script30009
Comment	iQSS BK/RS Use Right Info Check		
Data type	Signed BIN16	Trigger type	Sampling, 1 Sec

```
//Periodically check the status of obtaining the right to use.
```

```
if([w:SD1435] == [w:SD1436])
```

{

```
set([b:GB54004]); //iQSS Backup Permission Bit ON
```

<pre> }else{ rst([b:GB54004]); //iQSS Backup Permission Bit OFF } </pre>			
Script No.	30017	Script name	Script30017
Comment	Process at Screen Switching		
Data type	Signed BIN16	Trigger type	When closing a screen
<pre> //Clear Flags rst([b:GB54008]); rst([b:GB54009]); //Close Overlap Window [w:GD65001] = 0; [w:GD65004] = 0; [w:GD65007] = 0; </pre>			

ベース画面 30106

Script No.	30013	Script name	Script30013
Comment	B-30103,30106 Scr.Start Process		
Data type	Signed BIN16	Trigger type	ON, GB40
<pre> //Make various settings when starting screen //Actions at Screen Startup Only if([b:GB54008] == OFF) { //Backup Execution Date/Time [w:GD54040] = [w:GS650]; [w:GD54041] = [w:GS651]; [w:GD54042] = [w:GS652]; set([b:GB54008]); } </pre>			
Script No.	30003	Script name	Script30003
Comment	B-30106 Normal End		
Data type	Signed BIN16	Trigger type	ON, SM1440
<pre> //iQSS Restoration Normal End Processing if([b:GB54009] == OFF) { if([b:SM1442] == ON) { [w:GD54006] = 32005; //iQSS Restoration Cancel }else{ [w:GD54006] = 32003; //iQSS Restoration Normal Completion } [w:GD65007]=30101; //Notification Dialog Display set([b:GB54009]); } </pre>			
Script No.	30004	Script name	Script30004
Comment	B-30106 Abnormal End		
Data type	Signed BIN16	Trigger type	ON, SM1441
<pre> //iQSS Restoration Abnormal End Processing if([b:GB54009] == OFF) { if([w:SD1452] != 0) { if([w:SD1452] == 16894) { [w:GD54006] = 32004; //Restoration Failure Message </pre>			

<pre> }else{ [w:GD65007] = 30101;//Notification Dialog } }else{ if([w:SD1453] != 0) { [w:GD54006] = [w:SD1453]; //Restoration Failure Message [w:GD65007] = 30101;//Notification Dialog }else{ [w:GD54006] = 32004; //Restoration Failure Message [w:GD65007] = 30101;//Notification Dialog } } } set([b:GB54009]); } </pre>			
Script No.	30023	Script name	Script30023
Comment	B-30103,30106 iQSS BK/RS Cancel		
Data type	Signed BIN16	Trigger type	Rise, GB54002
<pre> //Abort iQSS Backup or iQSS Restoration set([b:SM1442]); //iQSS Backup/Restoration Cancel Request rst([b:GB54002]); </pre>			
Script No.	30017	Script name	Script30017
Comment	Process at Screen Switching		
Data type	Signed BIN16	Trigger type	When closing a screen
<pre> //Clear Flags rst([b:GB54008]); rst([b:GB54009]); //Close Overlap Window [w:GD65001] = 0; [w:GD65004] = 0; [w:GD65007] = 0; </pre>			

4.7.3 Object script

Base screen 30101

Object	Word lamp		
Script user ID	1		
Data type	Signed BIN16	Trigger type	Ordinary
<pre> //Script to Display Comments if([w:GD54101[w:GD54001]] != 0) { [w:GD54076] = ([w:GD54101[w:GD54001]] * 10) + \$\$; }else{ [w:GD54076] = 0; } </pre>			

The above script is set for all word lamps of the "Execution unit". The specified device varies depending on the object.

Window screen 30003

Object	Numerical display		
Script user ID	1		
Data type	Unsigned BIN16	Trigger type	Rise, GB40
<pre> //Obtain Today's Year & Month from Clock Data [w:TMP950] = [w:GS650] & 0xF000;//Obtain Tenths Digit of "Last 2-Digits of Year" from Clock Data for Setting </pre>			

[w:TMP960] = [w:TMP950] >> 12;//Decimal Alignment			
[w:TMP968] = [w:TMP960] * 10;//BCD->BIN			
[w:TMP951] = [w:GS650] & 0x0F00;//Obtain Ones Digit of "Last 2-Digits of Year" from Clock Data for Setting			
[w:TMP961] = [w:TMP951] >> 8;//BCD->BIN			
[w:TMP973] = 2000 + [w:TMP968] + [w:TMP961];//Set Year to TMP973 as BIN			
[w:GD65190] = [w:TMP973];//Set Year			
[w:TMP952] = [w:GS650] & 0x00F0;//Obtain Tenths Digit of Month from Clock Data for Setting			
[w:TMP962] = [w:TMP952] >> 4;//Decimal Alignment			
[w:TMP969] = [w:TMP962] * 10;//BCD->BIN			
[w:TMP953] = [w:GS650] & 0x000F;//Obtain Ones Digit of Month from Clock Data for Setting			
[w:TMP974] = [w:TMP969] + [w:TMP953];//Set Month to TMP974 as BIN			
[w:GD65191] = [w:TMP974];//Set Month			
[w:TMP954] = [w:GS651] & 0xF000;//Obtain Tenths Digit of "Last 2-Digits of Day" from Clock Data for Setting			
[w:TMP963] = [w:TMP954] >> 12;//Decimal Alignment			
[w:TMP970] = [w:TMP963] * 10;//BCD->BIN			
[w:TMP955] = [w:GS651] & 0x0F00;//Obtain Ones Digit of "Last 2-Digits of Day" from Clock Data for Setting			
[w:TMP964] = [w:TMP955] >> 8;//BCD->BIN			
[w:TMP975] = [w:TMP970] + [w:TMP964];//Set Day to TMP975 as BIN			
[w:GD65192] = [w:TMP975];//Set Day			
[w:TMP956] = [w:GS651] & 0x00F0;//Obtain Tenths Digit of Hour from Clock Data for Setting			
[w:TMP965] = [w:TMP956] >> 4;//Decimal Alignment			
[w:TMP971] = [w:TMP965] * 10;//BCD->BIN			
[w:TMP957] = [w:GS651] & 0x000F;//Obtain Ones Digit of Hour from Clock Data for Setting			
[w:TMP976] = [w:TMP971] + [w:TMP957];//Set Hour to TMP976 as BIN			
[w:GD65193] = [w:TMP976];//Set Hour			
[w:TMP958] = [w:GS652] & 0xF000;//Obtain Tenths Digit of "Last 2-Digits of Minute" from Clock Data for Setting			
[w:TMP966] = [w:TMP958] >> 12;//Decimal Alignment			
[w:TMP972] = [w:TMP966] * 10;//BCD->BIN			
[w:TMP959] = [w:GS652] & 0x0F00;//Obtain Ones Digit of "Last 2-Digits of Minute" from Clock Data for Setting			
[w:TMP967] = [w:TMP959] >> 8;//BCD->BIN			
[w:TMP977] = [w:TMP972] + [w:TMP967];//Set Minute to TMP977 as BIN			
[w:GD65194] = [w:TMP977];//Set Minute			
[w:TMP993] = [w:GS652] & 0x00F0;//Obtain Tenths Digit of Second from Clock Data for Setting			
[w:TMP995] = [w:TMP993] >> 4;//Decimal Alignment			
[w:TMP996] = [w:TMP995] * 10;//BCD->BIN			
[w:TMP994] = [w:GS652] & 0x000F;//Obtain Ones Digit of Second from Clock Data for Setting			
[w:TMP978] = [w:TMP996] + [w:TMP994];//Set Second to TMP978 as BIN			
[w:GD65195] = [w:TMP978];//Set Second			
Object	Numerical display		
Script user ID	2		
Data type	Unsigned BIN16	Trigger type	Ordinary
//BIN -> BCD Conversion			
[w:TMP979] = [w:GD65190] - 2000; //Last 2-Digits of Year			
[w:TMP980] = (([w:TMP979] / 10) << 4) + ([w:TMP979] % 10); //Year BIN -> BCD			
[w:TMP981] = (([w:GD65191] / 10) << 4) + ([w:GD65191] % 10); //Month BIN -> BCD			
[w:TMP982] = (([w:GD65192] / 10) << 4) + ([w:GD65192] % 10); //Day BIN -> BCD			
[w:TMP983] = (([w:GD65193] / 10) << 4) + ([w:GD65193] % 10); //Hour BIN -> BCD			
[w:TMP984] = (([w:GD65194] / 10) << 4) + ([w:GD65194] % 10); //Minute BIN -> BCD			
[w:TMP985] = (([w:GD65195] / 10) << 4) + ([w:GD65195] % 10); //Second BIN -> BCD			

Object	Numerical display		
Script user ID	3		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Year & Month Setting			
[w:GS513] = ([w:TMP980] << 8) + [w:TMP981]; //Set Year & Month to Change Time Device			
Object	Numerical display		
Script user ID	4		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Date & Time Setting			
[w:GS514] = ([w:TMP982] << 8) + [w:TMP983]; //Set Date & Time to Change Time Device			
Object	Numerical display		
Script user ID	5		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Minute & Second Setting			
[w:GS515] = ([w:TMP984] << 8) + [w:TMP985]; //Set Minute & Second to Change Time Device			
Object	Numerical display		
Script user ID	6		
Data type	Unsigned BIN16	Trigger type	Ordinary
//Day of Week Setting			
[w:TMP986] = [w:GD65190]; //Year (BIN)			
[w:TMP987] = [w:GD65191]; //Month (BIN)			
[w:TMP988] = [w:GD65192]; //Day (BIN)			
if([w:TMP987] == 1) ([w:TMP987] == 2){// Correction Processing to Calculate January and February as 13th/14th Month			
[w:TMP986] = [w:TMP986] - 1; //Subtract 1 from Year			
[w:TMP987] = [w:TMP987] + 12; //Add 12 to Month			
}			
[w:TMP989] = [w:TMP986]/4; //Create Items Required for Zeller's Congruence			
[w:TMP990] = [w:TMP986]/100; //Create Items Required for Zeller's Congruence			
[w:TMP991] = [w:TMP986]/400; //Create Items Required for Zeller's Congruence			
[w:TMP992] = (13*[w:TMP987]+8)/5; //Create Items Required for Zeller's Congruence			
//Calculate Day of Week Using Zeller's Congruence and Set the Day to Change Time Device			
[w:GS516] = ([w:TMP986]+[w:TMP989]-[w:TMP990]+[w:TMP991]+[w:TMP992]+[w:TMP988])%7;			

5. TEMPLATES

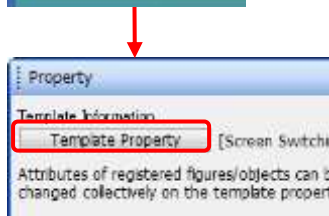
Templates are a group of figures and objects. Related settings are grouped into template attributes and registered, so the devices and colors, etc. can be easily changed in a batch. For more details about changing the attribute settings, please refer to the "GT Designer3 (GOT2000) Help".



The template information is only displayed on the screen design software's editing screen. It is not displayed on the GOT display screen.

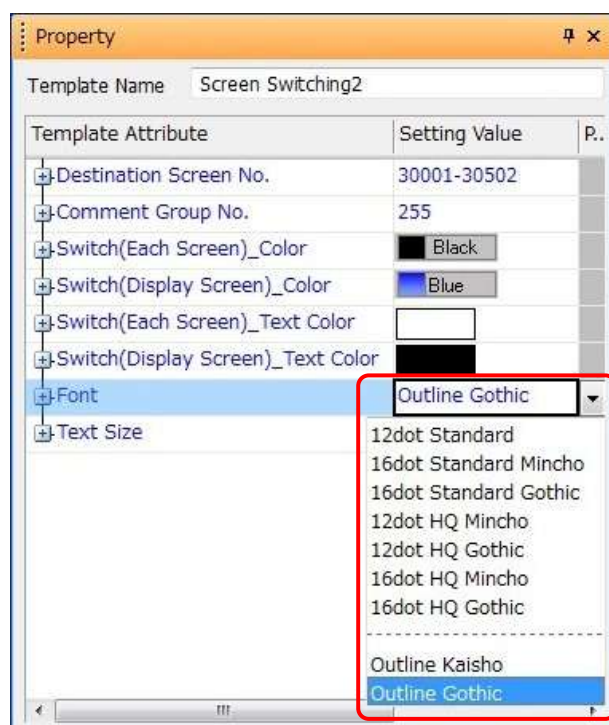
Example: Changing a font

- (1) Select [Template Information], and click on [Template Property] (or double-click [Template Information]).



The figures and objects that are registered in the template are changed to the selected state.

- (2) Click on [Font], and select the new font.



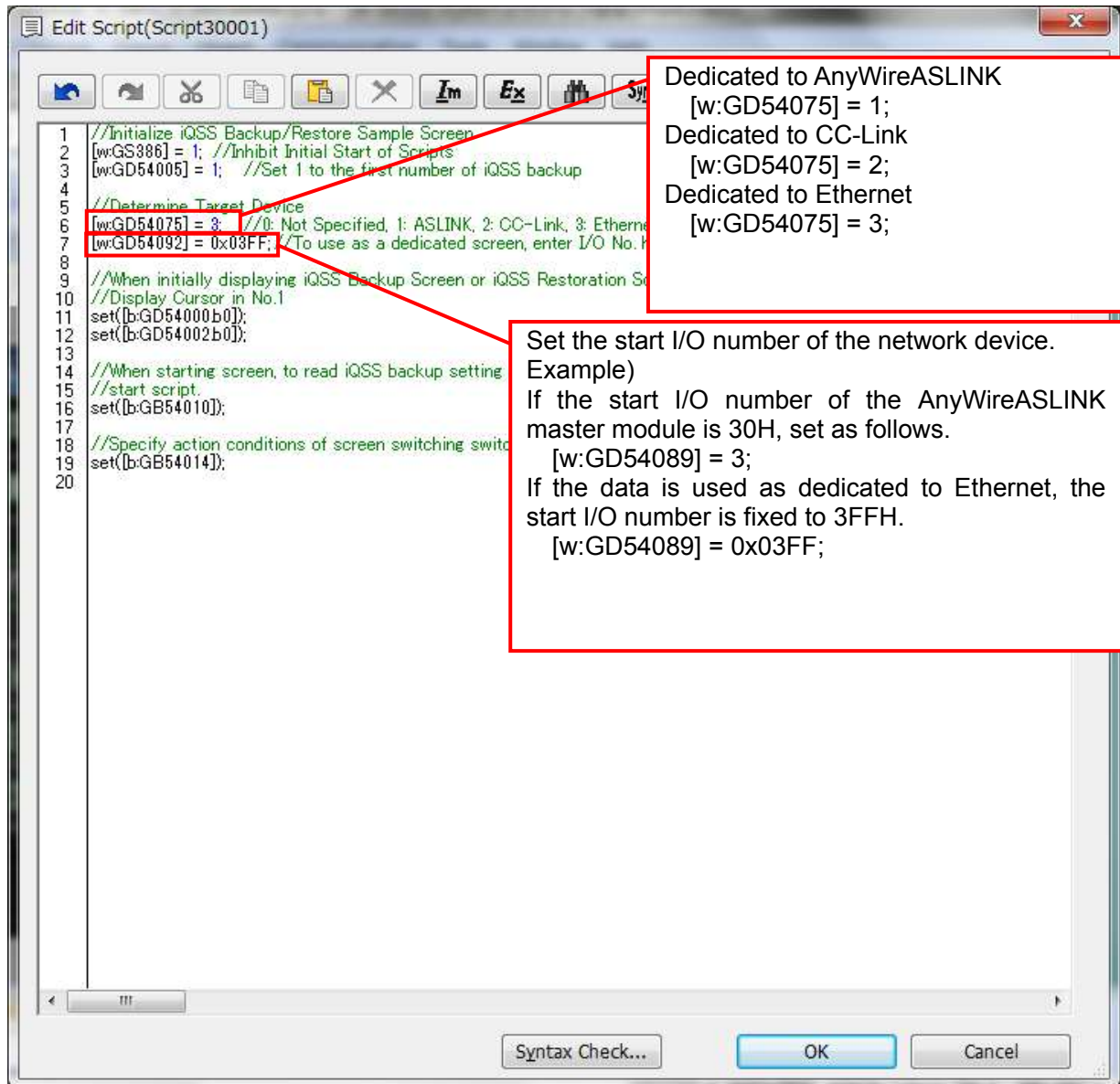
6. OTHERS

6.1 Changing System Configuration

The sample screens are created to support AnyWireASLINK, CC-Link, and Ethernet network; however, they can also be used as the sample screens dedicated to AnyWireASLINK, CC-Link, or Ethernet by applying the following modifications.

6.1.1 To change project script

Modify the project script (script No.30001) by following the procedure in the diagram below.



6.1.2 To change screen

Modify the iQSS Backup Setting screen (B-30102) by following the procedure in the diagram below.

- To make the screen dedicated to AnyWireASLINK

The screenshot shows the 'iQSS Backup Setting' screen. At the top, the title 'iQSS Backup Setting' is on the left, and the date '09/04/2013' and time '12:14' are on the right. Below the title bar, there is a blue header with 'No. 123'. The main area contains several fields: 'Setting name' with 'ABCDEFGH I JKLMNOP', 'Target model' with 'AnyWireASLINK' (highlighted by a red box), 'Execution unit' with 'ID' and 'Module type' (both with 'Output' selected), 'Folder number' with 'Automatic', 'I/O' with '123', and 'Error time action setting' with 'Continue' and 'Stop'. At the bottom are 'Register' and 'Back' buttons. A red callout box points to the 'AnyWireASLINK' field with the text: 'Delete CC-Link and Ethernet switches.'

- To make the screen dedicate to CC-Link

The screenshot shows the 'iQSS Backup Setting' screen. At the top, the title 'iQSS Backup Setting' is on the left, and the date '09/04/2013' and time '12:14' are on the right. Below the title bar, there is a blue header with 'No. 123'. The main area contains several fields: 'Setting name' with 'ABCDEFGH I JKLMNOP', 'Target model' with 'CC-Link' (highlighted by a red box), 'Execution unit' with 'ID' and 'Module type' (both with 'Output' selected), 'Folder number' with 'Automatic', 'I/O' with '123', and 'Error time action setting' with 'Continue' and 'Stop'. At the bottom are 'Register' and 'Back' buttons. A red callout box points to the 'CC-Link' field with the text: 'Delete AnyWireASLINK and Ethernet switches. Modify the position of the CC-Link switch.'

- To make the screen dedicated to Ethernet

iQSS Backup Setting
03/04/2013 12:15

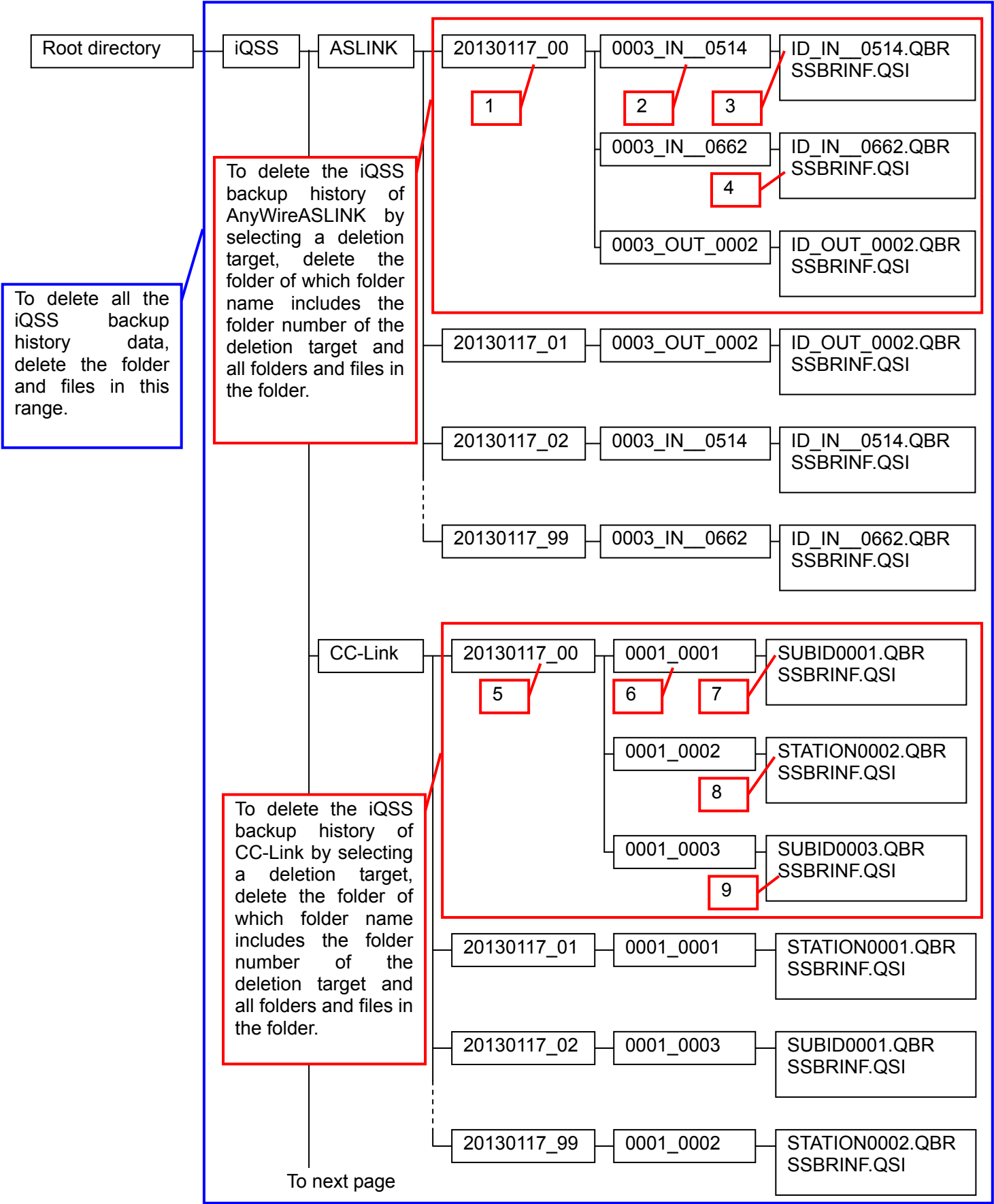
No. 123			
Setting name	ABCDEFGH I JKLMNOP		
Target model	Ethernet		
Execution unit	ID	All IDs	ID
	Module type	Output	Input/combination
Folder number	Automatic		
I/O	123		
Error time action setting	Continue Stop		
Register Back			

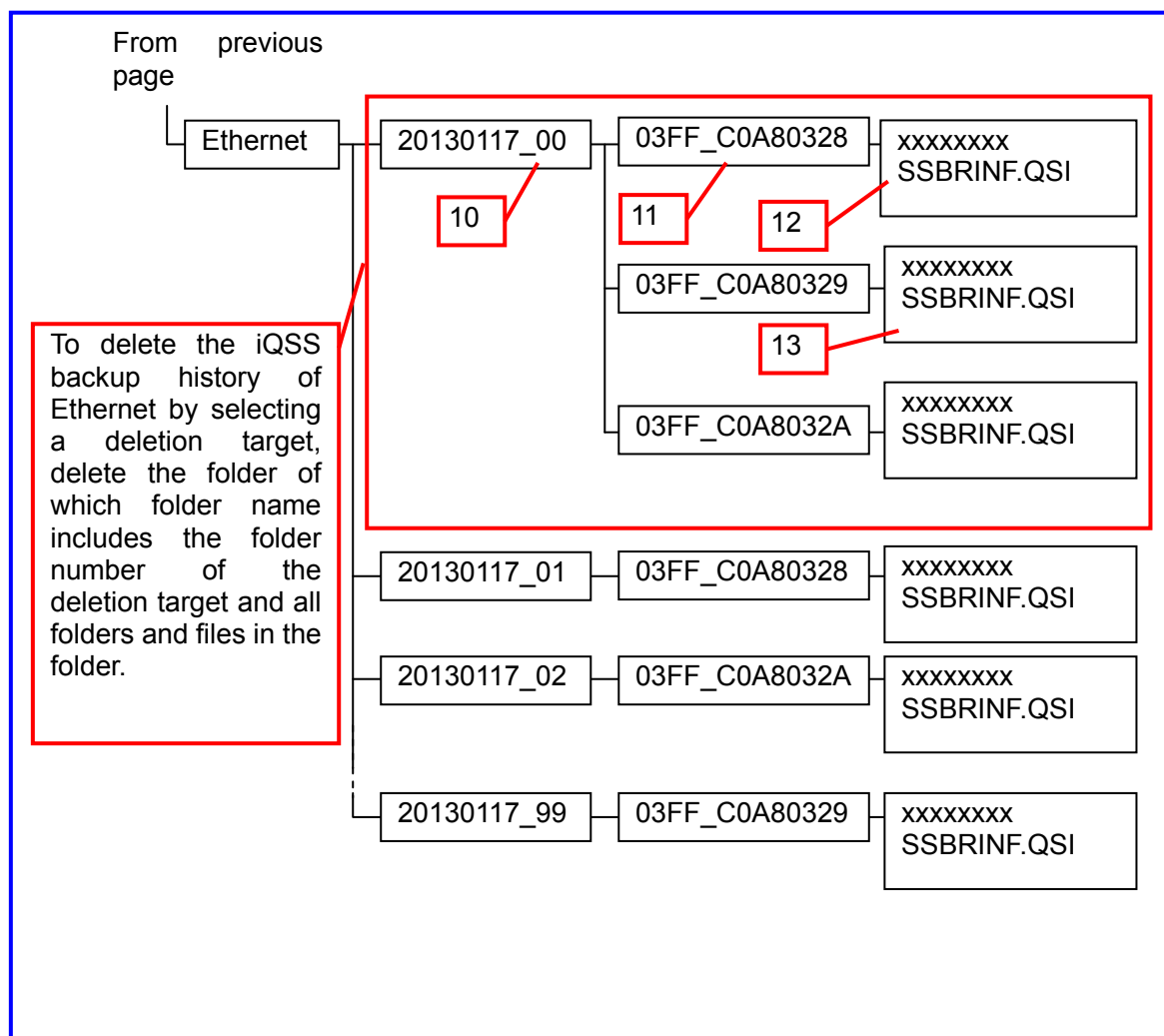
Delete AnyWireASLINK and CC-Link switches.
Modify the position of the Ethernet switch.

6.2 iQSS Backup Folder Configuration

6.2.1 Folder configuration

The iQSS backup folder configuration of the SD card in the PLC is as follows. For more details about 1 to 13 in the diagram, please refer to “6.2.2 Folder name, file name details”.





6.2.2 Folder name, file name details

(1) AnyWireASLINK

1. 20130117 - 00 ... Backup folder name (date, folder number)
Number (2 digits [00 to 99] [decimal])
Backed up date (YYYYMMDD)
2. 0003 - IN - 0514 ... Backup folder name (I/O No., ID)
ID number (4 digits [decimal]) *1
IN_: Input/combined slave module
OUT: Output slave module
I/O No. (4 digits [hexadecimal])
3. ID - IN - 0514.QBR ... Backup file name
ID number (4 digits [decimal]) *1
IN_: Input/combined slave module
OUT: Output slave module
4. SSBRINF.QSI ... System file

*1: The ID numbers of the AnyWireASLINK input/combined slave modules are managed by using the number adding 512 to the ID number which is assigned to the module. Therefore, the control number 512 to 766 is added to the end of the backup folder name for input/combined slave modules.

(2) CC-Link

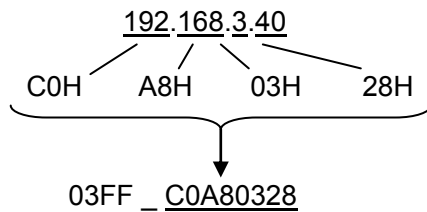
5. 20130117 - 00 ... Backup folder name (date, folder number)
Number (2 digits [00 to 99] [decimal])
Backed up date (YYYYMMDD)
6. 0001 - 0001 ... Backup folder name (I/O No., station No.)
Station No. (4 digits [decimal])
I/O No. (4 digits [hexadecimal])
7. SUBID0001.QBR ... Backup file name (station sub-ID [when the sensor is compatible to iQSS])
Station sub-ID (4 digits [decimal])
8. STATION0002.QBR ... Backup file name (station [when the sensor is compatible to iQSS])
Station No. (4 digits [decimal])
9. SSBRINF.QSI ... System file

(3) Ethernet

10. 20130117 _ 00 ... Backup folder name (date, folder number)
Number (2 digits [00 to 99] [decimal])
Backed up date (YYYYMMDD)
11. 03FF _ C0A80328 ... Backup folder name (target module, IP address)
IP address (8 digits [hexadecimal]) *1
Target module (4 digits [hexadecimal]) (03FFH: built-in Ethernet)
12. xxxxxxxx ... Backup folder/file name *2
Folder name/file name in the iQSS compatible devices of each IP address
13. SSBRINF.QSI ... System file

*1: The configuration of the folder name is as follows.

Example: iQSS compatible device IP address is 192.168.3.40



*2: In the folders of each IP address, the backup data is stored by using the folder name and the file name in the iQSS compatible device.